

1992 Documents

IEEE Neural Networks Council

From
The Robert J. Marks II Library Archive

The IEEE Neural Networks Council is now the IEEE Computational Intelligence Society

These documents are raw scans. There is no attempted organization.
Some year's files may be misplaced in files of adjacent years.



IEEE COMPUTER SOCIETY PRESS

10662 Los Vaqueros Circle
P.O. Box 3014
Los Alamitos, California 90720-1264
(714) 821-8380 • FAX 714-821-4010

January 2, 1992

Mr. Robert J. Marks, II
University of Washington
Dept. of Electrical Engineering, FT 10
Interactive System Design Laboratory
Seattle, WA 98195

Dear Mr. Marks,


The IEEE Computer Society Press requests your permission to reprint the following articles:

"Synchronous vs. Asynchronous Behavior of Hopfield's CAM Neural Net"
by K.F. Cheung, L.E. Atlas, and R.J. Marks, II. The article appeared
in *Applied Optics*, Vol. 26, No. 22, November 1987, pages 4808-4813.

The article is being considered for publication in a Tutorial Text entitled *Artificial Neural Networks: Concepts and Control Applications* by V. Rao Vemuri.

I am enclosing two copies of this letter and a self-addressed envelope. If you are willing to grant us permission to reprint your article, please sign one copy of this letter and return it by February 3, 1992. If you have some reprints of the article, we would appreciate it if you would send us one or two. We shall be pleased to send you a complimentary copy of the book upon publication.

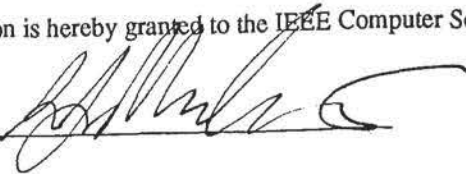
Sincerely,


Lisa O'Conner
Production Editor

Reprint Permission

Permission is hereby granted to the IEEE Computer Society Press to reprint the article listed above.

Signed:



Date:

1/10/92

Please send a complimentary copy of the final publication.



Orlando: Meetings on Jan 9-10

Purpose: Organization

Meeting for IEEE WCCI
1994

- ✓ • AIR: \$361.00
- Home to/from Airport 21 + 3 = \$24 to
 (Shuttle) " from
- Dolphin
- ✓ 3 ~~Day~~ Days (Nights of Jan 8, 9, 10)
- ✓ 3 Days Parking
- Dolphin
- ✓ All local calls
- Car Rental
- ✓ 3 Days of 7
- ✓ Gas: \$4 (of \$9.15)
- ✓ • Jan 10 22⁰⁹ +
 ~~after meeting refreshments~~ International Meeting
 (Robinson, Fulanda, Boissone, Rogers, Merles)
- ✓ • No Dinner or lunch on Jan 9
 No breakfast or lunch on Jan 10
 Rough in other meals.
- ✓ • Tolls (in Orlando) ~~\$0.00~~ \$1.25 each way.

Go to Ray Nutter



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

EXPENSE REPORT FOR PERIOD ENDING 11/17 19 92

TRAVELING IN CAPACITY OF (CHECK ONE)

- MEMBER OF IEEE STAFF _____ (Dept.)
- MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
- IEEE REGIONAL DIRECTOR
- IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE
Past President, Neural Networks Council
(Name of Board or Committee)

(NAME)
Robert J. Marks, II

(ADDRESS TO SEND CHECK)
Dept. of Elec. Engrg. FT-110
University of Washington
Seattle, WA, 98195

TRIP AUTHORIZATION NO. _____

PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY
Travel
TAB Meetings Council, travel

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

DETAILS	DATE	11/15	11/16					TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)
	TOWN	Seattle/Newark/Seattle	Newark/Seattle						
PERSNL. AUTO MILEAGE									
TRANSPORTATION TOLLS - PARKING									
MILEAGE ALLOWANCE									
TAXI - BUS SEE REVERSE SIDE (1)		23 00	23 00					46 00	
PLANE - TRAIN - AUTO RENTAL		506 00						506 00	
LOGGING/SELF			110 88					110 88	
MEALS/SELF SEE REVERSE SIDE (2)									
OFFICIAL GUEST SEE REVERSE SIDE (3)									
MISCELLANEOUS TEL. & TEL.									
TIPS - GRATUITIES									
OTHER (4)									
TOTAL EXPENSE		529 00	133 88					662 88	

PROVIDE DETAILS BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

(4)	LESS CHARGED DIRECT TO IEEE		
	LESS ADVANCE FROM IEEE		
	BALANCE DUE FROM (X) IEEE	662 88	
(5)	ACCOUNT NO.	AMOUNT	
SIGNATURE	DATE		AMOUNT OF CHECK
APPROVAL	DATE		
APPROVAL	DATE	\$	

BELOW FOR ACCOUNTING DEPT. USE ONLY

VOUCHER NO	VENDOR NO.	PAY WEEK	MOVE CODE	DISTRIBUTED BY	APPROVED BY



NEWARK AIRPORT
 RT 1 AND 9 SOUTH AT RT 78
 NEWARK, NJ

Toll Free Reservations (800) 321- 2211

THANK YOU FOR SELECTING COURTYARD BY MARRIOTT FOR YOUR TRIP. WE TRUST THAT YOUR EXPERIENCE WITH US HAS INCLUDED WARM AND GRACIOUS SERVICE, AND THE TYPE OF ACCOMMODATIONS EXPECTED. YOUR CANDID COMMENTS ARE ALWAYS WELCOME. PLEASE ASSIST US BY COMPLETING OUR GUEST COMMENT FORM.

WE LOOK FORWARD TO SERVING YOU AGAIN ON FUTURE TRIPS. FOR ADDITIONAL RESERVATIONS, CALL OUR TOLL FREE RESERVATIONS NUMBER, (800) 321-2211.

WE LOOK FORWARD TO YOUR NEXT VISIT.

ROBERT DR MARKS	327	BTREG
1402 THIRD AVENUE	ROOM	GENR 50861274
SE ATTLE WA 981012118	ROOM TYPE	1
	NO. OF GUESTS	99.00
JOSEPH VANCE BLDG STE 806	RATE	99.00
	CLERK	

ARRIVE 11/15/92 TIME 12:15AM DEPART 11-16-92 TIME 01:59A FOLIO # F6-63838

DATE	REFERENCE NUMBER	DESCRIPTION	CHARGES	CREDITS
11/15/92	RB327	ROOM CHARGE	99.00	
11/15/92	RT327	ROOM TAX	11.88	
11/15/92	DS327	DISCOVER		110.88-

* CARD #: 6011009675000843 *				
* AMOUNT: 110.88 AUTH: 016224 *				
* ** SIGNATURE ON FILE ** *				

		** BALANCE **		.00

PA PASSENGER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS CONTAINED IN THIS TICKET CONJUNCTION TICKET(S)

ISSUED BY NORTHWEST AIRLINES

EN DISBURSEMENTS/RESTRICTIONS (CARBON)

ARC PASSENGER COUPON

DATE OF ISSUE 05NOV92

ORIGIN/DESTINATION SEA/SEA

BOOKING REFERENCE 011PEA

ISSUED IN EXCHANGE FOR

See below for Airline Form, Serial Number

STANB TRAVEL

PSGR CPN

NO 86127-47

P. PASSENGER NAME MARKS, ROBERT DR NOT TRANSFERABLE

NO	FROM	NOT GOOD FOR PASSAGE	CARRIER	FLIGHT	CLASS	DATE	TIME	STATUS	FARE BASIS/TKT. DESIGNATOR
1	SEATTLE	TACOMA	NW	156	n	15NOV	245P	OK	MUGWA
2	MINNEAPOLIS	ST PL	NW	272	n	15NOV	830P	OK	MUGWA
3	NEWARK		NW	361	n	16NOV	720P	OK	MUGWA
4	MINNEAPOLIS	ST PL	NW	157	n	16NOV	1010P	OK	MUGWA

FARE 150 449.00 SEA NW MSP NW NYC224.58

TAX 44.7209

TAX 12.00XF

FORM OF PAYMENT 83378743821952005 107

TOTAL 506.00

ALL-AGT. INFO. 012 7720429245 4

CONTROL NO. 84545080274

CPN AIRLINE CODE FORM SERIAL NUMBER CK

ShuttleExpress™
 "The Easiest Way to & from the Airport."

GUEST RECEIPT

DATE 11-16-92 AMOUNT 2300 DRIVER Kelly

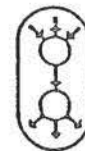
WE offer Door to Door Service to and from your home, office or hotel - 24 hours a day, everyday.
 Call 622-1424 or 1-800-487-RIDE.

file



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

December 23, 1992

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

Enclosed is an Expense Report for the recent Neural Networks Council meeting in Phoenix, Arizona, December 4-6. Please request that a check be issued to cover these expenses and have it sent to me at my University address. Thank you.

Sincerely,

Robert J. Marks II
Past President

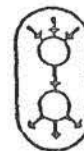
SS# [REDACTED]
IEEE 6402291

\$ 877.59

file



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

December 23, 1992

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

Enclosed is an Expense Report for the recent Neural Networks Council meeting in Phoenix, Arizona, December 4-6. Please request that a check be issued to cover these expenses and have it sent to me at my University address. Thank you.

Sincerely,

Robert J. Marks II
Past President

SS# [REDACTED]
IEEE 6402291

\$877.59

READ INSTRUCTIONS ON REVERSE SIDE OF YELLOW COPY AND REFER TO IEEE TRAVEL REIMBURSEMENT MANUAL BEFORE COMPLETING THIS FORM



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
EXPENSE REPORT FOR PERIOD ENDING

12/18 19 92

IEEE

TRAVELING IN CAPACITY OF (CHECK ONE)

- MEMBER OF IEEE STAFF _____ (Dept.)
- MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
- IEEE REGIONAL DIRECTOR
- IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE
- SOCIETY OFFICER
Past President Neural Networks Council
(Name of Board, Committee or Society)

NAME																					
R	O	B	E	R	T		J	I		M	A	R	K	S		I	I				
(ADDRESS TO SEND CHECK)																					
D	E	P	T		O	F		I	E	E		I	-		I	F	I	-		T	O
U	N	I	V		O	F		W	A												
S	E	A	T	T	L	E			W	A											

TRIP AUTHORIZATION NO. _____

PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY

Travel - Neural Networks Council Mtg
NNC Ad Com Meeting
NNC Ad Com Mtg - travel

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

DETAILS	DATE	12/04	12/05	12/06						TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)	
	TOWN	Seattle/Phoenix	Phoenix	Phoenix/Seattle								
PERSNL. AUTO MILEAGE												
TRANSPORTATION TOLLS - PARKING												
MILEAGE ALLOWANCE		XXXXXX										
TAXI - BUS SEE REVERSE SIDE (1)		41 60		24 00						65 00		
PLANE - TRAIN - AUTO RENTAL		161 00		158 00						319 00		
LODGING/SELF		126 79	126 79							253 58		
MEALS/SELF SEE REVERSE SIDE (2)			223 01							223 01		
OFFICIAL GUEST SEE REVERSE SIDE (3)												
MISCELLANEOUS TEL & TEL.		4 00		4 00						8 00		
TIPS - GRATUITIES		6 00		3 00						9 00		
OTHER (4)												
TOTAL EXPENSE		338 79	349 80	189 00						877 59		

PROVIDE DETAILS BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

(4)	LESS CHARGED DIRECT TO IEEE	
	LESS ADVANCE FROM IEEE	
	BALANCE DUE FROM (X) IEEE	877 59
(5)	ACCOUNT NO.	AMOUNT
SIGNATURE	DATE 12/18/92	
APPROVAL	DATE	
APPROVAL	DATE	

AMOUNT OF CHECK

BELOW FOR ACCOUNTING DEPT. USE ONLY

VENDOR NO.	DISTRIBUTED BY	APPROVED BY

**PROVIDE DETAILS BELOW OF SUMMARY EXPENSES
 AS REPORTED ON FRONT OF THIS REPORT**

TAXI - BUS (1)

DATE	AMOUNT	FROM	TO
12/04	24	Home (Lynnwood)	Airport
12/04	17	Airport	Hotel
12/06	24	Airport	Home (Lynnwood)

MEALS - SELF (2)

DATE	AMOUNT	BREAKFAST	LUNCH	DINNER	SOCIAL
12/05 12/05X	7.85 XXXXX	7.85			

MEALS - OFFICIAL GUEST (3)

DATE	AMOUNT	NAME/NAMES OF GUEST	PURPOSE OF MEETING
12/05	141.07	Newcomb, Simpson, Wunsch, Marks, Kaplan, Wah, Eberhart	Ad Com Dinner
12/05	74.09	Same	Ad Com Meeting Refreshments

Robert J. Marks II

EMENT

See below for Airline Form, Serial Number

12-89 (1072) PASSENGER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS CONTAINED IN THIS TICKET
ISSUED BY AMERICA WEST AIRLINES
ENDORSEMENTS/RESTRICTIONS (CARBON)

CONJUNCTION TICKET(S)

ARC PASSENGER COUPON
DATE OF ISSUE 23NOV92

ORIGIN/DESTINATION PHX/SEA
BOOKING REFERENCE PAFTEL
ISSUED IN EXCHANGE FOR

STAND TRAVEL
PSGR CPN
50 86127-4/

PASSENGER NAME MARKS/ROBERT DR NOT TRANSFERABLE

FROM	CARRIER	FLIGHT	CLASS	DATE	TIME	STATUS	FARE BASIS/TKT. DESIGNATOR	NOT VALID BEFORE	NOT VALID AFTER	ALLOW
PHOENIX	HP	945	R	06DEC	505P	01	KUGWA			
TO SEATTLE TACOMA										
TO VOID										
TO VOID										
TO VOID										

FARE 143.64 PHX HP SEAT 143.64 143.64 END
EQUIV. FARE PD.

TAX 14.36

TOTAL 158.00
AL-AGT. INFO. 0011/R600JI
CONTROL NO. 43847597271

FORM OF PAYMENT AX378743691952005 10/94 ORIGINAL ISSUE 000033 TOUR CODE

CPN AIRLINE CODE FORM SERIAL NUMBER CK 401 7720429393 5 0 0012 10

DO NOT MARK OR WRITE IN THE WHITE AREA ABOVE

See below for Airline Form, Serial Number

12-89 (1072) PASSENGER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS CONTAINED IN THIS TICKET
ISSUED BY ALASKA AIRLINES
ENDORSEMENTS/RESTRICTIONS (CARBON)

CONJUNCTION TICKET(S)

ARC PASSENGER COUPON
DATE OF ISSUE 23NOV92

ORIGIN/DESTINATION SEA/PHX
BOOKING REFERENCE PAFTEL
ISSUED IN EXCHANGE FOR

STAND TRAVEL
PSGR CPN
50 86127-4/

PASSENGER NAME MARKS/ROBERT DR NOT TRANSFERABLE

FROM	CARRIER	FLIGHT	CLASS	DATE	TIME	STATUS	FARE BASIS/TKT. DESIGNATOR	NOT VALID BEFORE	NOT VALID AFTER	ALLOW
SEATTLE TACOMA	AS	710	0	04DEC	1155A	01	ODGWA			
TO PHOENIX										
TO VOID										
TO VOID										
TO VOID										

FARE 143.64 SEA AS PHX 143.64 143.64 END (FSEA3)
EQUIV. FARE PD.

TAX 14.36 US
TAX 3.00 XF

TOTAL 181.00
AL-AGT. INFO. 0011/R600JI
CONTROL NO. 43847595576

FORM OF PAYMENT AX378743691952005 10/94 ORIGINAL ISSUE 000033 TOUR CODE

CPN AIRLINE CODE FORM SERIAL NUMBER CK 027 7720429392 4 0 0276 10

Robert J. Marks II



WESTIN
HOTELS & RESORTS

ARIZONA BILTMORE

24th Street and Missouri, Phoenix, Arizona 85016 (602) 955-6600

121438 (A)

ROBERT J II
BOARD OF DIRECTORS
199TH ST SW
LYNNWOOD WA 98036

PAGE 01

ROOM 307

FOR RESERVATIONS AND INFORMATION: TOLL FREE 1-800-528-3696

DATE	REFERENCE NO.	DESCRIPTION	CHARGES/CREDITS	
1992				
DEC04	011 00307	ROOM/PKG E	115.00	00
DEC04	011 00307	ROOM TAX..	11.79	00
DEC04	011 00307	INCIDENTAL	4.00	00
DEC05	341 02113	CAF' SONORA	7.85	88
DEC05	341 02189	CAF' SONORA	141.07	88
DEC05	315 04342	LOBBY BAR.	74.09	88
DEC05	011 00307	ROOM/PKG E	115.00	00
DEC05	011 00307	ROOM TAX..	11.79	00
DEC05	011 00307	INCIDENTAL	4.00	00
		BAL-FWD	484.59	

REGARDLESS OF CHARGE INSTRUCTIONS THE UNDERSIGNED HAS REVIEWED THE ABOVE CHARGES AND ACKNOWLEDGES THEM AS A PERSONAL INDEBTEDNESS AND AGREES TO PAY SAME UPON DEMAND. SHOULD IT BECOME NECESSARY TO ENFORCE PAYMENT OF THIS OBLIGATION, THE UNDERSIGNED AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING COURT COSTS AND ATTORNEY'S FEES.

12/04/92
12/06/92

SIGNATURE _____

CHARGE TO _____

ExecuCar
EXECUTIVE SEDAN SERVICE

Driver # _____

Date 12/04/92

TRIP VOUCHER

PTC # _____

Pass. Name Marks + El Sharkawi

Company _____

Address/Bldg. _____

City _____ Zip _____

Acct # _____

Client # / Name _____ Profit Center # _____

Pick-up Time _____ Drop off Time _____

From: _____ To: _____

Stand by \$	
Phone time \$	
Fare \$	7.10
Tip \$	2
Total \$	20.00

Pax #	
Method of Payment	
CREDIT CARD	<input type="checkbox"/>
DIRECT BILL	<input type="checkbox"/>
CASH RECEIPT	<input checked="" type="checkbox"/>
PREPAID	<input type="checkbox"/>

Comments: _____

X _____
Customer Signature here authorizes Direct Bill or Credit Card Charge

WHITE: ExecuCar YELLOW: ExecuCar PINK: Customer Copy

17115



TE 12/04/92 FARE TICKET

COMPANY NAME _____

COUNT NUMBER _____

AX	PASSENGER NAME	AMOUNT
		24.00
	TOTAL	24.00

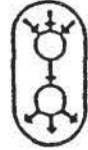
EPT. _____ P.O. # _____

AUTHORIZED SIGNATURE _____

RIVER SIGNATURE _____



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

January 16, 1993

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

Enclosed is an IEEE Expense Report for Professor Marks' travel to Beijing for the Executive Committee Meeting of the Neural Networks Council in November, 1992, with a check in the amount of \$274.06.

As the advance money was received in October, we need to ask your cooperation in filing this report quickly to avoid getting involved with the IRS on advance monies.

Sincerely,

Ruth A. Wagner
Secretary to
Robert J. Marks II
Past President

SS# [REDACTED]
IEEE 6402291

READ INSTRUCTIONS ON REVERSE SIDE OF YELLOW COPY AND REFER TO
IEEE TRAVEL REIMBURSEMENT MANUAL BEFORE COMPLETING THIS FORM

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
EXPENSE REPORT FOR PERIOD ENDING

1/11/93¹⁹



TRAVELING IN CAPACITY OF (CHECK ONE)

- MEMBER OF IEEE STAFF _____ (Dept.)
- MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
- IEEE REGIONAL DIRECTOR
- IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE
- SOCIETY OFFICER
Past Pres. Neural Networks Council
(Name of Board, Committee or Society)

NAME									
Robert	J.	Mark	s	I	I				
(ADDRESS TO SEND CHECK)									
Dept	of	Elec	Engnr						
University of Washington									
Seattle, WA 98195									

TRIP AUTHORIZATION NO. _____ PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

Travel
Travel
Conference
Conference
Conference
Personal
Travel

DETAILS	DATE	11/1	11/2	11/3	11/4	11/5	11/6 & 7	11/8	TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)
	TOWN	Seattle	Beijing China	- - -	- - -	- - -	- - -	Beijing/ Seattle		
PERSONAL AUTO MILEAGE										
TRANSPORTATION TOLLS - PARKING										
MILEAGE ALLOWANCE										
TAXI - BUS SEE REVERSE SIDE (1)		21 00						21 00	42 00	
PLANE - TRAIN - AUTO RENTAL		1551 00							1551 00	
LODGING/SELF			260 00*						260 00	
MEALS/SELF SEE REVERSE SIDE (2)			12 00	24 50	23 50	23 50		4 75	80 75	
OFFICIAL GUEST SEE REVERSE SIDE (3)										
MISCELLANEOUS TEL & TEL										
TIPS - GRATUITIES		3 00						3 18	6 18	
OTHER (4)		17 75						10 76	28 51	
TOTAL EXPENSE		1592 75	272 00	24 50	23 50	23 50		39 69	1975 94	

PROVIDE DETAILS BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

LESS CHARGED DIRECT TO IEEE: 2

LESS ADVANCE FROM IEEE: 2850 | 00

BALANCE DUE FROM (TO) IEEE: 274 | 06

\$10 for visa plus \$2.75 for money orders (req'd) plus \$5 handling fee; 10.76=airport fee

*money wired to hotel ahead -no receipt or communication rec'd from hotel

SIGNATURE: _____ DATE: _____

APPROVAL: _____ DATE: _____

APPROVAL: _____ DATE: _____

AMOUNT OF CHECK: \$ _____

BELOW FOR ACCOUNTING DEPT. USE ONLY

VENDOR NO. _____ DISTRIBUTED BY _____ APPROVED BY _____

Mail Form to Roy

Arizona

Reason for Trip:
NNC Ad Com

Shuttle:

To (\$3^{TIP}) 24[✓] → NO
From (") 24[✓] Receipt

Air \$161^{TO} + 158[✓] FROM

Hotel (Lots!)
(Incidentals are phone
1/3 tips)

Breakfast 12:05 7.85

Dinner (Authorized by Eberhart)

Newcomb	Simpson	141.07
Alan	Wunsch	
Marks	Kaplan	
Eberhart	Wah	

On Hotel
Receipt

Meeting Refreshments \$74.09

Purpose:
Ad Com
Dinner

Meeting refreshments

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

024952
06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
22-JAN-93	CUST. ACCT. NO.	VENDOR NAME	Marks, Robert J II	VENDOR NO.
-NOV-92	16-DEC-92	EXPENSE REPORT FOR PERIOD ENDING 11/17/92	.00	662.88
			\$.00	\$ 662.88

PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You



IEEE TECHNICAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TELEX 833233
NEW JERSEY FACSIMILE NUMBER (908) 562-1571
NEW YORK FACSIMILE NUMBER (212) 705-7682

TRANSMITTAL COVER SHEET

To: Bob marks Date: 1/6/93

Company: Univ of Washington - EE Dept MS FT-10

Time: Am Pm Fax No.: (206) 543-3842

No. of Pages: 4 From: Lyn Andrahovitch
including this sheet

If pages are not received properly, please call: (908) 562-3851

Handling Instructions:

- High Priority (HAND DELIVER IMMEDIATELY)
- Call when completed
- Normal processing
- Other The attached expense report is not

considered complete without the original receipt for
taxes on 1/15; however, we can submit a completed
unsupported travel expense in place of the receipt.

IEEE Headquarters
345 East 47th Street
New York, NY 10017-2394
Facsimile No.: (212) 752-4929

IEEE Service Center
445 Hoes Lane
Piscataway, NJ 08855-1331
Facsimile No.: (908) 981-0027

IEEE U.S.A. Washington Office
1828 L Street, N.W., Suite 1202
Washington, DC 20036-5104
Facsimile No.: (202) 785-0835

Once we receive either of these, we can then submit expenses to Accts Payable. Thank-you

Net'd 1/12/93 w/receipt



Robert J. Marks II Library Archive
 READ INSTRUCTIONS ON REVERSE SIDE OF YELLOW COPY AND REFER TO
 IEEE TRAVEL REIMBURSEMENT MANUAL BEFORE COMPLETING THIS FORM

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
 NOV 24 1992 EXPENSE REPORT FOR PERIOD ENDING 11/17 19 92
 TRAVELING IN CAPACITY OF (CHECK ONE)

(NAME) Robert J. Marks II
 (TITLE) PRESIDENT OF THE STAFF DIRECTOR
 (MEMBER OF IEEE STAFF) YES
 (Dept.)
 (ADDRESS TO SEND CHECK) Department of Electrical Engineering (FIT) - 110 CONFERENCE CENTER
 University of Washington DEPARTMENT
 Seattle, WA 98195
 (Name of Board or Committee) IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE (Past President, Neural Networks Council)

TRIP AUTHORIZATION NO. _____ PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY
 Travel
 TAB Meetings Council, travel

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

DETAILS	DATE	11/15	11/16	TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)
PERSONAL AUTO MILEAGE	TOWN	Seattle/Newark/	Newark/Seattle		
TRANSPORTATION TOLLS - PARKING					
MILEAGE ALLOWANCE					
TAXI - BUS SEE REVERSE SIDE (1)		23 00	23 00	46 00	
PLANE - TRAIN - AUTO RENT SEE REVERSE SIDE (2)		506 00		506 00	
LOADING/SELV			110 88	110 88	
MEALS/SELF SEE REVERSE SIDE (3)					
OFFICIAL GUEST SEE REVERSE SIDE (3)					
MISCELLANEOUS TEL. & TEL.					
TIPS & GRATUITIES					
OTHER (4)					
TOTAL EXPENSE		529 00	133 88	662 88	

PROVIDE DETAILS-BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

(4)	LESS CHARGED DIRECT TO IEEE	
	LESS ADVANCE FROM IEEE	
	BALANCE DUE FROM (TO) IEEE	662 88
(5)	ACCOUNT NO.	AMOUNT
	10-210-210954-115-3265	662 88

SIGNATURE *[Signature]* DATE 11/17/92
 APPROVAL *[Signature]* DATE
 APPROVAL *[Signature]* DATE 12/16/92

AMOUNT OF CHECK

BELOW FOR ACCOUNTING DEPT. USE ONLY

VOUCHER NO	VENDOR NO.	PAY WEEK	MOVE CODE	DISTRIBUTED BY	APPROVED BY
	06402291				

IEEE COPY-FORWARD PER INSTRUCTIONS

SERVICE CENTER
THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOEB LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, USA TEL: (908) 981-0060 TELEX 833233 FAX: (908) 981-0027

12/29/92

DIRECT NUMBER (908) 582-
TECHNICAL ACTIVITIES
JAN 06 1993
FINANCE DEPARTMENT

TO: Lyn Andrahovitch

FROM: D. Nickerson, Accounts Payable

Your Invoice/Check Request/Expense Report is being returned due to:

_____ Wrong form

_____ Wrong approval/additional approval required

_____ No backup/additional backup required

_____ No account number/wrong account number

_____ Vendor number not on system - follow procedure to request vendor

✓ other Need \$23 receipt
for 11/15 TAXI
only allowed \$10 with no receipt
Thank You
D. Nickerson

READ INSTRUCTIONS ON REVERSE SIDE OF YELLOW COPY AND REFER TO
 Robert J. Marks II Library Archive
 IEEE TRAVEL REIMBURSEMENT MANUAL BEFORE COMPLETING THIS FORM



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

EXPENSE REPORT FOR PERIOD ENDING _____ 19 _____

TRAVELING IN CAPACITY OF (CHECK ONE)

- MEMBER OF IEEE STAFF _____ (Dept.)
- MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
- IEEE REGIONAL DIRECTOR
- IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE

 (Name of Board or Committee)

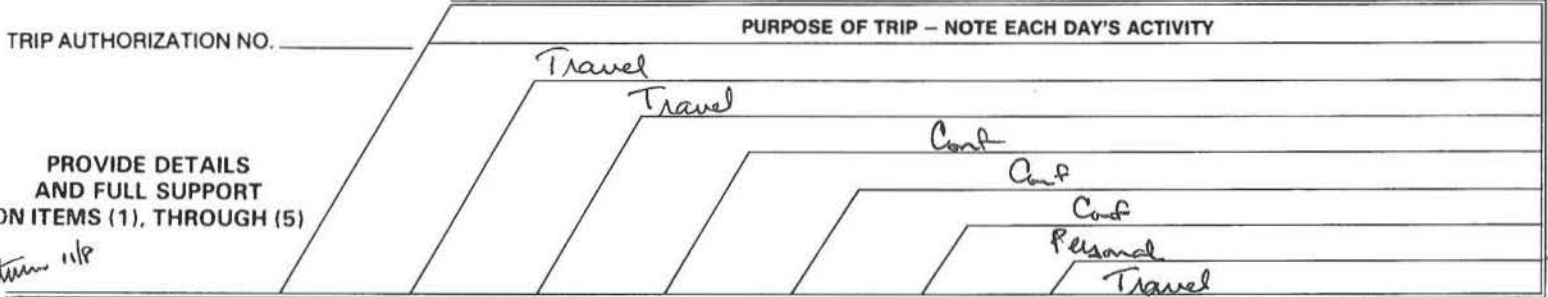
(NAME) _____
 (ADDRESS TO SEND CHECK) _____

TRIP AUTHORIZATION NO. _____

PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

return 11/8



DETAILS	DATE	11/1	2	3	4	5	11/6+11/7	11/8	TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)
	TOWN	Seattle	Beijing				Personal	Beijing/Seattle		
PERSNL. AUTO MILEAGE										
TRANSPORTATION TOLLS - PARKING										
MILEAGE ALLOWANCE										
TAXI - BUS SEE REVERSE SIDE (1)		21						21	42	
PLANE - TRAIN - AUTO RENTAL -		1551	260						1551	
LODGING/SELF			260 455.00						260	
MEALS/SELF SEE REVERSE SIDE (2)			12.00	24.50	23.50	23.50		4.75 12.00	88.25	
OFFICIAL GUEST SEE REVERSE SIDE (3)										
MISCELLANEOUS TEL. & TEL.		50.00								
TIPS - GRATUITIES		3						3.00	6.18	
OTHER (4)		17.75		24.50	23.50	23.50		10.76	28.51	
TOTAL EXPENSE		1592.75	272.00	24.50	23.50	23.50		39.69	1975.94	

PROVIDE DETAILS-BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

(4) 10^{00} for visa plus 2.75 for money orders (reg'd) plus 5 for handling fee; 10.76 = airport tax advance as per instruction	LESS CHARGED DIRECT TO IEEE	
(5) \times hotel package - money wired by UIC; 25 wire transfer and cable charge no receipt or communication rec'd from hotel.	LESS ADVANCE FROM IEEE	2250
	BALANCE DUE FROM (TO) IEEE	274.106
SIGNATURE _____	ACCOUNT NO. _____	AMOUNT _____
DATE _____		
APPROVAL _____		
DATE _____		
APPROVAL _____		
DATE _____		

BELOW FOR ACCOUNTING DEPT. USE ONLY

VOUCHER NO	VENDOR NO.	PAY WEEK	MOVE CODE	DISTRIBUTED BY	APPROVED BY
------------	------------	----------	-----------	----------------	-------------

PROVIDE DETAILS BELOW OF SUMMARY EXPENSES
AS REPORTED ON FRONT OF THIS REPORT

TAXI - BUS (1)

DATE	AMOUNT	FROM	TO
11/1	* 21.00	Home - Lymwood	Sea Tac Airport
11/2		Airport to Hotel	to Hotel
11/8		Hotel	Airport

MEALS - SELF (2)

DATE	AMOUNT	BREAKFAST	LUNCH	DINNER	SOCIAL
11/2	12.00			12.00	
11/3	24.50	5.25	7.50	11.75	
11/4	23.50	4.25	7.00	12.25	
11/5	23.50	4.50	6.50	12.50	
11/6					
11/8	12	4.75	7.25		
	95.50	18.75	28.25	48.50	95.50

MEALS - OFFICIAL GUEST (3)

DATE	AMOUNT	NAME/NAMES OF GUEST	PURPOSE OF MEETING



VRAIS '93

General Chair:
Thomas Furness
University of Washington

Program Chairs:
Thomas Caudell
Boeing Computer Services

Michitaka Hirose
University of Tokyo

Organization Chair:
Robert Marks II
University of Washington

Publications Chair:
Mani Soma
University of Washington

Finance Chair:
Dmitry Kaplan
Siemens-Quantum Corp.

Local Arrangements Chair:
Mohamed El-Sharkawi
University of Washington

Tutorials Chair:
Blake Hannaford
University of Washington

Publicity Chair:
Carley L. Dunn
SPIE

Exhibits Chair:
Chris Esposito
Boeing Computer Services

International Liaisons:
Masahiro Kawahata
Fujitsu Research Institute

Toshio Fukuda
Nagoya University

Meeting Management:
Nomi Feldman
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego, CA 92121
Tel. (619) 453-6222
FAX (619) 535-3880

Robert J. Marks II, Organization Chair
University of Washington
Department of Electrical Engineering, FT-10
Seattle, WA 98195 USA
(206) 543-6990 (office)
543-3842 (FAX).
marks@milton.u.washington.edu

September 1, 1992

Dr. Dmitry Kaplan, Finance Chair
IEEE VRAIS
3819 165th Place SE
Bellevue, WA 98008
Phone: (206) 392-9180

Dear Dmitry,

Enclosed are some receipts for expenses I incurred as Organization Chair for VRAIS.

One is a receipt for \$228.40 for the conference call on November 18, 1992 for the VRAIS meeting. Participating were Walter Karplus (Standards), Dr. Blades (Standards), Toshio Fukuda (International Chair) and Meeting Management.

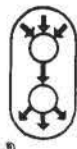
Also included are receipts for the VRAIS lunch on December 12, 1992. Participants include Toshio Fukuda, Russ Eberhart, (NNC President), Blake Hannaford, M. El-Sharkawi, Tom Caudell, and me.

Conference Call	\$228.40
VRAIS Luncheon	\$ 12.65
	\$ 31.46
	\$ 6.33
TOTAL	\$278.84

Please send a check to me for that amount to the above address.

Sincerely,

Robert J. Marks II, Organization Chair
'93 VRAIS, Seattle





P.O. Box 3165
 Cedar Rapids, Iowa 52406-3165

For questions concerning your
 bill please call 1-800-475-0500

PAGE NO. 1	INVOICE NO. 02157	APPLY TO	INVOICE DATE 11/18/92	CUST. NO. W1626
---------------	----------------------	----------	--------------------------	--------------------

INVOICE

AMOUNT
 ENCLOSED \$

ROBERT MARKS
 1131 199TH STREET S.W
 LYNNWOOD, WA 98036 USA

PLEASE DETACH AND SEND THIS PORTION WITH YOUR PAYMENT

CALL DATE 11/18/92	CALL TIME 7:03P CT	P.O. Box 3165 Cedar Rapids, Iowa 52406-3165			TERMS DUE ON RECEIPT
CONFERENCE LEADER ROBERT MARKS	DATE REQUESTED 11/18/92	LOCATION CR	DIVISION		
DESCRIPTION	CALL DURATION	TOTAL PARTICIPANTS/MINUTES	PRICE PER PARTICIPANT/MINUTE	TOTAL	TAX
DOMESTIC PARTICIPANTS		3	3.00	9.00	T
INT'L PARTICIPANTS - NO CHARGE		1			T
DOMESTIC OPERATOR ASST'D	81	243	0.43	104.49	T
INTERNATIONAL - TARIFF RATES		1	94.21	94.21	T
SUB TOTAL	GRS	STATE	EXCISE		
207.70	0.97	13.50	6.23		228.40
THANK YOU FOR USING MCI CONFERENCE CALLING			REFERENCE NO. 02157	TOTAL AMOUNT OF CALL	



\$6.33
12-8-92

FACULTY CLUB - UNIVERSITY OF WASHINGTON

Check no Tab Cov Ser Time Date
8481/1 1 6 13:20 12/08/92

QTY	DESCRIPTION	PRICE
1	CAESAR	4.95
2	SPECIAL #1	2.50
2	SPECIAL #1	9.90
2	ROLL	0.60
3	COFFEE/TEA	2.40
1	SPECIAL #4	5.50
1	APPLE JUICE	1.50
1	MINERAL WATER	1.25

Food Sub-Total 28.60

Sub Total 28.60
SERVICE CHARGE 2.86

Total 31.46

Thank You
Mary

FACULTY CLUB CARD

FACULTY CLUB CARD										Description
1	2	3	4	5	6	7	8	9	10	

Customer's Signature

FACULTY CLUB - UNIVERSITY OF WASHINGTON

Check no Tab Cov Ser Time Date
8482/1 1 6 13:20 12/08/92

QTY	DESCRIPTION	PRICE
2	CAESAR	9.90
2	COFFEE/TEA	1.60

Food Sub-Total 11.50

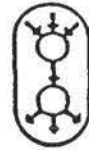
Sub Total 11.50
SERVICE CHARGE 1.15

Total 12.65

Thank You
Mary



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

December 26, 1992

Roy S. Nutter, Jr., Treasurer
IEEE Neural Networks Council
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

*Ruth,
Put both on
'Owes Bob #'
list & file. I
have mailed. RJB*

Dear Roy,

Attached are original receipts for items purchased in regard to my duties as Editor of the *IEEE Transactions on Neural Networks*.

- ◆ Misc Office Supplies
(Stamp, Tape, Glue, Stamp Pad, Calander) \$ 19.53
- ◆ 22 Certificates for Associate Editors & Executive Advisory Board
(Issued to outgoing Associate Editors.
Eberhart & Kartalopolous sent copies) \$298.00
- ◆ Telephone

Phone	\$34.37
Phone	\$ 7.40
TAX & SURCHARGE	<u>\$ 5.92</u>
TOTAL	\$41.77

The total of these three items is \$359.30. Please remit this total to me at the address on the letterhead.

Sincerely,

Robert J. Marks, Editor-in-Chief
IEEE Transactions on Neural Networks

Robert J. Marks II
SS# [REDACTED]
IEEE# 6402291

CURRENT CHARGES	TOTAL
DOMESTIC LONG DISTANCE	\$20.40
DOMESTIC MCI CARD	\$34.37
FEDERAL TAX	1.65
STATE AND LOCAL TAXES	3.92
STATE AND LOCAL SURCHARGE	.26
TOTAL CURRENT CHARGES	\$60.60
PREVIOUS BALANCE (DISREGARD, IF PAID)	113.06
PAYMENTS THROUGH OCT 21 -- THANK YOU	113.11CR
ADJUSTMENTS	.00
BALANCE DUE FROM PREVIOUS CHARGES	.05CR
TOTAL AMOUNT DUE BY 11/12/92	\$60.55

FOR CUSTOMER SERVICE, CALL TOLL-FREE 1-800-964-2458
FOR TDD MACHINES ONLY, CALL 1-800-374-4TDD

MCI

ACCOUNT 6B316295 INVOICE 89411751 CYCLE 22 NOVEMBER 22, 1992 4 396223BUN

DETAIL OF CARD CALLS								
NO.	DATE	TIME	KEY	TO/FROM	NUMBER	MIN	AMOUNT	
CALLS FOR MCI CARD 2067768995								
1.	OCT 22	09:27A	D	TO MESA AZ	602-396-1268	10	3.14	
				FR EVERETT WA	950-1022			
2.	OCT 23	10:04A	D	TO PALO ALTO CA	415-354-0861	2	1.17	
				FR EVERETT WA	950-1022			
3.	OCT 23	10:07A	D	TO LAFAYETTE LA	318-231-6732	5	1.94	
				FR EVERETT WA	950-1022			
4.	NOV 17	07:50P	E	TO CARY NC	919-481-4269	3	1.15	
				FR HALLS LAKE WA	206-776-8995			
TOTAL CALLS FOR MCI CARD 2067768995						20	\$7.40	
TOTAL CARD CALLS						20	\$7.40	

MCI

ACCOUNT 6B316295 INVOICE 89048893 CYCLE 22 OCTOBER 22, 1992 4 405427BUN

DETAIL OF CARD CALLS								
NO.	DATE	TIME	KEY	TO/FROM	NUMBER	MIN	AMOUNT	
CALLS FOR MCI CARD 2067768995								
1.	SEP 29	02:14P	D	TO WINSTN SAL NC	919-766-6210	1	.98	
				FR EVERETT WA	950-1022			
2.	SEP 29	02:25P	D	TO WINSTN SAL NC	919-766-6210	9	2.90	
				FR EVERETT WA	950-1022			
3.	SEP 29	03:49P	D	TO WINSTN SAL NC	919-766-6210	47	12.02	
				FR EVERETT WA	950-1022			
4.	OCT 02	09:09A	D	TO NEW YORK NY	212-705-7682	1	.98	
				FR EVERETT WA	950-1022			
5.	OCT 02	09:10A	D	TO NEW JRK NY	212-705-7408	12	3.62	
				FR EVERETT WA	950-1022			
6.	OCT 03	09:41A	N	TO WINSTN SAL NC	919-766-6210	2	.96	
				FR EVERETT WA	950-1022			
7.	OCT 13	10:40P	E	TO ANN ARBOR MI	313-763-2107	1	.88	
				FR EVERETT WA	950-1022			
8.	OCT 15	12:42P	D	TO LA JOLLA CA	619-453-6222	3	1.46	
				FR SEATTLE WA	950-1022			

MCI

ACCOUNT 6B316295 INVOICE 89048893 CYCLE 22 OCTOBER 22, 1992 5 405428BUN

DETAIL OF CARD CALLS							
NO.	DATE	TIME	KEY	TO/FROM	NUMBER	MIN	AMOUNT
9.	OCT 21	08:10A	D	TO IRVINE CA FR EVERETT WA	714-252-1173 950-1022	1	.98
10.	OCT 21	10:15A	D	TO IRVINE CA FR EVERETT WA	714-252-1173 950-1022	32	8.42
11.	OCT 21	10:49A	D	TO PALO ALTO CA FR EVERETT WA	415-859-2314 950-1022	2	1.17
TOTAL CALLS FOR MCI CARD 2067768995						111	\$34.37
TOTAL CARD CALLS						111	\$34.37

MCI

MEMBERS LIKE THIS

TOTAL 7890

CENTS 53

DOLLARS 19

PRESS FIRMLY USE BALLPOINT PEN			
DEPT.	DESCRIPTION	QUAN.	UNIT COST
		3	1/40
			96
FOLIO/CHECK NO., LC, NO. STATE			
484203081145317/04038900			
REFERENCE NO.			
12/22/92 BANK			
CASHIER	CLERK	TAX	TIP - MISC.
SUB	ATTN		
			1/48
			19

PLEASE RETAIN THIS COPY FOR YOUR RECORDS

CUSTOMER COPY

AUTHORIZATION NUMBER

DATE

MONTH

DAY

YEAR

ASSA

Mikes Print Emporium

11005 128th NE Suite C202
Kirkland, Wa. 98033
206-823-8628

Bill to Dr. Bob Marks:

IEEE Certificates #22 @ \$12.50 \$275
tax 23
total \$298

Remit to Michael Montgomery, Thank
you!

E 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

012993

3-JUN-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

OFFICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
UN-92	10-JUN-92	EXPENSE REIMBURSEMENT	.00	123.36



PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You

\$.00

\$123.36

6011 0096 7500 0843

CARD MEMBER ACCOUNT NO. 1986
CARD MEMBER ROBERT J II MARKS

SERVICE ESTABLISHMENT
HOLIDAY INN
NEWARK NJ
07102
Holiday Inn

DATE OF CHARGE 091892

FOLIO OR CHECK NO. 807
AUTHORIZATION 100

SHOULD THERE BE A CHARGE THAT DID NOT APPEAR ON YOUR BILL AT CHECK OUT IT WILL APPEAR BELOW IN THE PURCHASES & SERV. INITIAL

TAXES	TYPE OF DELAYED CHRG.
TIPS-MISC.	AMT. OF DELAYED CHRG.
DOLLAR EQUIVALENT	REVISED TOTAL
TOTAL AMOUNT 9.95	CARD ISSUER USE

TYPE OF CREDIT CARD
 MC VISA DISCVR OTHER
 AM NICO DC

ESTABLISHMENT AGRES TO TRANSFER TO CARD ISSUER RESPONSIBILITY
X CARD MEMBER'S SIGNATURE

INVOICE NO. 033186

033186

CARD MEMBER'S COPY

EEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

017062

15-SEP-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
1-AUG-92	28-AUG-92	EXPENSE REIMBURSEMENT	.00	118.01

\$.00 \$118.01

PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You

Cardmember Account Number 3181 436919 52005		CARDMEMBER USE <input type="checkbox"/>	EXPIRATION DATE CHECKED
Cardmember 06/91 THRU 10/92 69 AX ROBERT MARKS	Approval Code 27	Type of Delayed Chg.	
	Check or Bill Number	Amt. of Delayed Chg.	
Service Establishment 6700 10 1 NEW YORK, NY 6310104571	Date of Charge 060792	Revised Total	
Cardmember Signature X <i>[Signature]</i>		PLEASE WRITE FIRMLY	
Merchandise and/or service purchased on this card shall not be resold or returned for cash refund. Establishment agrees to transmit to American Express Travel Related Services Co., Inc. or authorized representative for payment.		MERCHANDISE/SERVICES	
AMERICAN EXPRESS Cards 409168 Invoice Number		TAXES	
		TIPS/MISC.	
		TOTAL 378 43	
		Dollars	Cents
		Cardmember Copy	

CD 20249 ©AMEX. Ptd in U.S.A. 1/91

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

012705

19-JUN-92

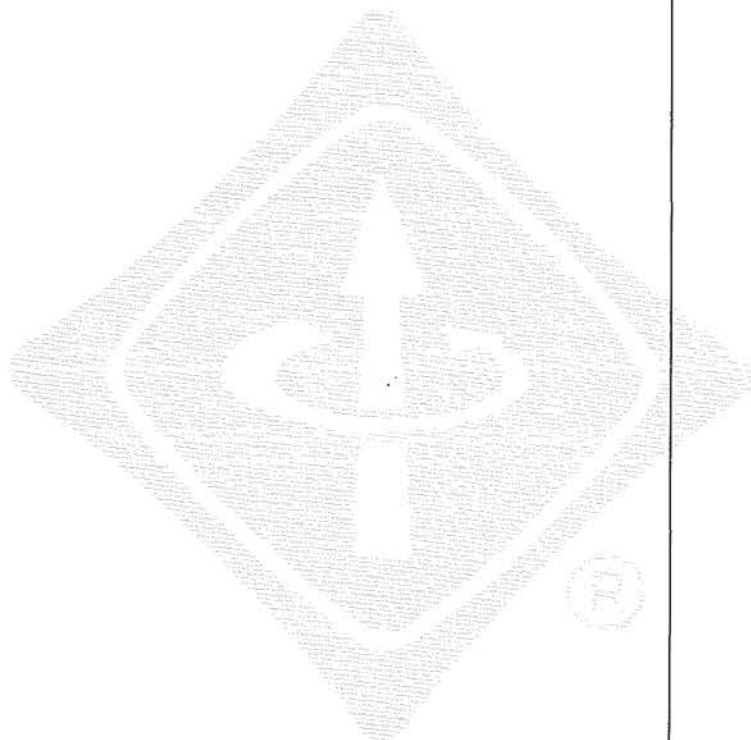
CUST. ACCT. NO.

VENDOR NAME

Marks, Robert J II

VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
21-APR-92	21-APR-92	Expense report for period ending 4/21/92 - Atlanta	.00	349.30



PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You

\$.00

\$349.30

6011 0096 7500 0843

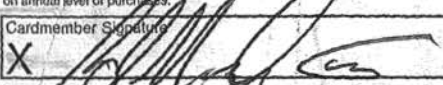
09/92

ROBERT J. MARKS

PEACHTREE HILTON
 63085227
 4100303866
 NORCROSS GA


40392

The issuer of the Discover Card is authorized to pay the amount shown as **Total** upon proper presentation. I promise to pay such **Total** (together with any other charges due on it) subject to and in accordance with the Cardmember Agreement governing the use of the Discover Card. Cashback Bonus is paid annually by Discover Card, up to 1% based on annual level of purchases.

Cardmember Signature
 X 

DISCOVER[®]
 FINANCIAL SERVICES CARD

Date	Clerk
Authorization No. 018642/250 ⁰⁰	
5006861	
Amount	Any delayed charges are listed below
Tax	Type of Delayed Chg.
Captain's Tip	Amount of Delayed Chg.
Server's Tip	Revised Total
Misc.	Discover Card Use Only Equivalent Amount
Total 215.30	

CASHBACK BONUS
 This Purchase Qualifies

Cardmember Copy



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

EXPENSE REPORT FOR PERIOD ENDING April 21, 1992

TRAVELING IN CAPACITY OF (CHECK ONE)

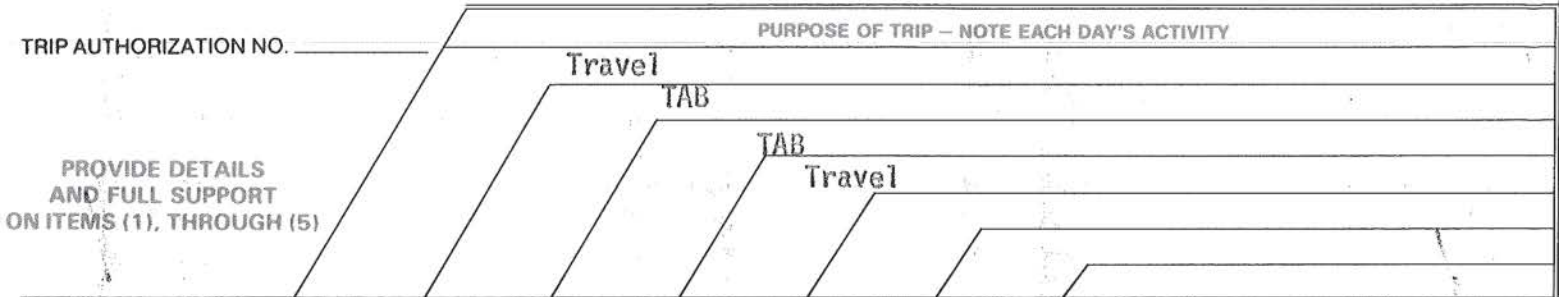
(NAME)
 Robert J. Marks II
 (ADDRESS TO SEND CHECK)
 Dept of EE - F1-10
 University of Washington
 Seattle, WA 98195

- MEMBER OF IEEE STAFF _____ (Dept.)
- MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
- IEEE REGIONAL DIRECTOR
- IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE
NNC Past President
 (Name of Board or Committee)

TRIP AUTHORIZATION NO. _____

PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)



DETAILS	DATE	4/02/92	4/03/92	4/04/92	4/05/92	TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)
	TOWN	Seattle/Atlanta	Atlanta	Atlanta	Atlanta/Seattle		
PERSNL. AUTO MILEAGE							
TRANSPORTATION TOLLS - PARKING							
MILEAGE ALLOWANCE							
TAXI - BUS SEE REVERSE SIDE (1)		23 00			23 00	46 00	
PLANE - TRAIN - AUTO RENTAL		588 00				588 00	
LODGING/SELF		71 50	71 50	71 50	XXXX	214 50	
MEALS/SELF SEE REVERSE SIDE (2)							
OFFICIAL GUEST SEE REVERSE SIDE (3)							
MISCELLANEOUS TEL. & TEL.							
TIPS - GRATUITIES							
OTHER (4)				80		80	
TOTAL EXPENSE		682 50	71 50	72 30	23 00	849 30	

PROVIDE DETAILS BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

(4)	LESS CHARGED DIRECT TO IEEE	
	LESS ADVANCE FROM IEEE	500 00
	BALANCE DUE FROM IEEE	349 30

ACCOUNT NO.	AMOUNT
(5)	

SIGNATURE _____ DATE _____

APPROVAL _____ DATE _____

APPROVAL _____ DATE _____

AMOUNT OF CHECK \$ _____

BELOW FOR ACCOUNTING DEPT. USE ONLY

VOUCHER NO.	VENDOR NO.	PAY WEEK	MOVE CODE	DISTRIBUTED BY	APPROVED BY
-------------	------------	----------	-----------	----------------	-------------



HILTON AT PEACHTREE CORNERS

5993 Peachtree Industrial Blvd. • Norcross, GA 30092
404/447-4747

Room	Rate	Arrival	Departure	Folio Number	Account	Affiliation	PF	ID	Page
511	44.00	4/3/92	4/5/92	201338	2 COISC	2-IEEE	11	JGB	1

MARKS ROBERT J. 6011009375000843 0992 05:25 KAB 1/0
 DEPT ELECTRICAL ENG.
 MS FT-10. UNIV. OF WASH.
 SEATTLE WA 98195

Date	Code	Reference	ID	Description	Charges	Payments	Balance
0402	112			KAB ROOM GROUP	65.00		65.00
0402	811			KAB ROOM SALES TAX	6.50		71.50
0403	112			JGB ROOM GROUP	65.00		136.50
0403	811			JGB ROOM SALES TAX	6.50		143.00
0404	711			MRS 8 COPIES	.80		143.80
0404	112			SEC ROOM GROUP	65.00		208.80
0404	811			SEC ROOM SALES TAX	6.50		215.30
						.00	215.30

6011 0096 7500 0843
 1986 09/92
 ROBERT J II MARKS
 PEACHTREE HILTON
 63085227
 4100303866
 NORCROSS GA 30092

Date: _____ Clerk: _____
 Authorization No. 018642/2580
 5006861

Amount	
Tax	
Captain's Tip	
Server's Tip	
Misc.	
Total	215.30

Discover Card Use Only
 Equipment Amount

CASHBACK BONUS
 This Purchase Qualifies

Cardmember Signature: _____

I agree that my liability for this bill is not waived and I agree to be held personally liable in the event that the indicated person, company, or association fails to pay for any part or the full amount of these charges.

Signature: _____

Robert J. Marks II
 Page 1 of 2 of
 attachments

PASSENGER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS CONTAINED IN THIS TICKET
 ISSUED BY **NORTHWEST AIRLINES INC** CONJUNCTION TICKET(S)

ISSUED IN EXCHANGE FOR **0600EL415**

ORIGIN/DESTINATION **SEATTLE WA**

ARC PASSENGER COUPON DATE OF ISSUE **24 MAR 92**

BOOKING REFERENCE **J.D. COOK TRAVEL**

PASSENGER NAME **MARKS/ROBERT MR** NOT TRANSFERABLE

ISSUED IN EXCHANGE FOR **50 59254-2/**

DATE AND PLACE OF ISSUE **SEATTLE WA**

FROM	TO	CARRIER	FLIGHT	CLASS	DATE	TIME	STATUS	FARE BASIS/TKT. DESIGNATOR	NOT VALID AFTER	ALLOW
SEATTLE	MEMPHIS/ST PAUL	NW	154	Y	02APR	240P	OK	00GWA		31 JAN
MEMPHIS/ST PAUL	ATLANTA	NW	516	Y	02APR	0830P	OK	00GWA		31 JAN
ATLANTA	MEMPHIS/ST PAUL	NW	741	Y	02APR	700A	OK	00GWA		31 JAN
MEMPHIS/ST PAUL	SEATTLE	NW	7	Y	02APR	230A	OK	00GWA		31 JAN

FARE CALCULATION: **USD 584.51**

TAX: **USD 53.44**

TOTAL: **USD 637.95**

FORM OF PAYMENT: **AVS 92 474919 50005 EYE 1092**

CPN: **012** AIRLINE CODE: **7701191991** SERIAL NUMBER: **3** CK: **0**

ORIGINAL ISSUE: **000000**

CONTROL NO: **08600196326**

DO NOT MARK OR WRITE IN THE WHITE AREA ABOVE



GUEST RECEIPT

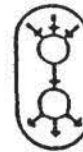
4-5-92 *523.00* *Steve W. Weston Jeddah 395*

DATE AMOUNT DRIVER

We offer Door to Door Service to and from your home,
 office or hotel - 24 hours a day, everyday.
 Call **622-1424** or **1-800-487-RIDE**.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

April 22, 1992

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

Enclosed is my expense report for my recent trip to the TAB meeting in Atlanta. Please request that a check be issued to me and sent to the University address.

Sincerely,

A handwritten signature in black ink, appearing to be "RJM", written over a white background.

Robert J. Marks II, Past President
Neural Networks Council

SS# [REDACTED]
IEEE# 6402291

Enclosure



IEEE

SERVICE CENTER

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 833233

MEMORANDUM

TO: IEEE General Manager

DIRECT NUMBER (201) 562-

FROM: Robert J. Marks II

DATE: May 21, 1992

SUBJECT: Unsupported Travel Expenses

This is to certify that expenses as outlined below were incurred by me in the course of carrying out IEEE activities. The receipts, as required by IEEE Policy Statement 11.6, could not be obtained because of circumstances in the matter of payment.

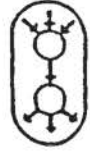
<u>DATE</u>	<u>AMOUNT</u>	<u>TYPE OF EXPENDITURE</u>	<u>CIRCUMSTANCES</u>
<u>4/02-4/05/92</u>	<u>\$214.50</u>	<u>Lodging</u>	<u>Hotel computers were down at time of check-out. They subsequently provided a FAX copy of my bill.</u>
<u>4/02/92</u>	<u>\$ 23.00</u>	<u>Shuttle Express - taxi service from home to airport</u>	<u>Receipt lost</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

Approval
(IEEE General Manager, IEEE Deputy General Manager or IEEE Controller)


Signed



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

June 16, 1992

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

Enclosed is my expense report for AdCom and various other publication meetings in Baltimore and New York City. Please request that a check be issued to me and sent to the University address.

Sincerely,

A handwritten signature in cursive, appearing to read 'Bob', with a small 'w' written below it.

Robert J. Marks II, Past President
Neural Networks Council

SS# [REDACTED]
IEEE # 6402291

Enclosure

BEEKMAN TOWER

Three Mitchell Place, New York, New York 10017-1801 (212) 355-7300

FOR RESERVATIONS CALL:
 1-800-ME-SUITE

DATE 06/09/92

ROBERT MARKS
 445 HOES LANE
 PISCATAY NJ 08855
 I E E E

FOLIO NUMBER 9614 (04A1)
 CO-KEY 8:03AM

*IEEE

ACTIVITY DATE	CODE	DESCRIPTION	CHARGES	CREDITS
06-07-92	C0 04A1	NY CITY OCCUPANCY TAX	4.00	
06-07-92	S5 04A1	NY STATE OCC. TAX 5%	7.75	
06-07-92	C6 04A1	NY CITY OCC. TAX 6%	9.30	
06-07-92	S8 04A1	NY STATE SALES TAX 8.25%	12.79	
06-07-92	TR 04A1	DAILY ROOM CHARGE	155.00	
06-08-92	C0 04A1	NY CITY OCCUPANCY TAX	4.00	
06-08-92	S5 04A1	NY STATE OCC. TAX 5%	7.75	
06-08-92	C6 04A1	NY CITY OCC. TAX 6%	9.30	
06-08-92	S8 04A1	NY STATE SALES TAX 8.25%	12.79	
06-08-92	LD 0547	LOCAL PHONE CHG. 212-950-1022	.75	
06-08-92	TR 04A1	DAILY ROOM CHARGE	155.00	
06-09-92		AX 8:03AM---PAID: AMER. EXPRESS		378.43

I AGREE THAT MY LIABILITY FOR THIS BILL IS NOT WAIVED AND AGREE TO BE HELD PERSONALLY LIABLE IN THE EVENT THAT THE INDICATED PERSON OR COMPANY FAILS TO PAY FOR ANY PART OR THE FULL AMOUNT OF THESE CHARGES, INCLUDING ATTORNEY FEES AND COLLECTION COSTS IF THEY ARE NECESSARY.

BILL TO: PLEASE PRINT

NAME _____
 STREET _____
 CITY _____

BALANCE DUE

.00

X

GUEST'S SIGNATURE

Yellow Cab Company • 1992 • ENE Neural Networks Council
 688-1275 Robert J. Marks II Library Arch

Shuttle Express
 "The Easiest Way to & from the Airport."

DATE 6/7/92 AMOUNT \$ 4.90 + 1.10
 RECEIVED FROM R.J. Marks
 FROM Sharon Hotel
 DESTINATION Penn Station
 CAB # _____ DRIVER I.D. # _____
 DRIVER'S NAME _____
 CUSTOMER'S SIGNATURE _____

BWI GROUND
 TRANSPORTATION
 CENTER

06/06/92

GUEST RECEIPT #2

6/7 21- 399
 DATE AMOUNT DRIVER

We offer Doc office home,
 Date is incorrect -
 it was 6/6/92

38P
 SHRTN RT 12.00
 SUBTOTAL 12.00
 TOTAL 12.00
 CASH 22.00
 CHANGE 10.00

1 PURC CTR

0079A#1 17:25
 HAVE A NICE DAY

PASSENGER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS CONTAINED IN THIS TICKET
 ISSUED BY **UNITED AIRLINES** CONJUNCTION TICKET(S)
 ENDORSEMENTS/RESTRICTIONS (CARBON)

ARC PASSENGER COUPON
 DATE OF ISSUE 01MAY92
 ORIGIN/DESTINATION SEA/SEA
 BOOKING REFERENCE 50 86127-4
 ISSUED IN EXCHANGE FOR

STANG TRAVEL
 PSGR CPN
 SEATTLE WA

PASSENGER NAME MARIS PROFF NOT TRANSFERABLE

TO	FROM	CARRIER	FLIGHT	CLASS	DATE	TIME	STATUS	FARE BASIS	TKT	DESIGNATOR	NOT VALID BEFORE	NOT VALID AFTER	ALLOW
SEA	SEA	UA	1200	Y	06/06/92	7:00	OK	Y	Y	Y			
SEA	CHI	UA	1513	Y	06/06/92	1:20	OK	Y	Y	Y			
SEA	PHO	UA	515	Y	06/06/92	5:00	OK	Y	Y	Y			
SEA	CHI	UA	1513	Y	06/06/92	7:00	OK	Y	Y	Y			

FARE EQUIV. FARE PD. 500.00

TAX _____

TOTAL 500.00

FORM OF PAYMENT USD 500.00

CPH. AIRLINE CODE 016 FORM 7701918863 SERIAL NUMBER 2 CK

ORIGINAL ISSUE 000000

CONTROL NO. 83809052775

DO NOT MARK OR WRITE IN THE WHITE AREA ABOVE

ENDORSEMENTS/RESTRICTIONS (CARBON) pc# p4723
 ORIGIN/DESTINATION BAL/NYP BOOKING REFERENCE 887041
 CONJUNCTION TICKET(S)

STANG TRAVEL
 SERVICE INC
 SEATTLE WA
 50 86127-4

NAME OF PASSENGER Marks/P. NOT TRANSFERABLE
 ISSUED IN EXCHANGE FOR
 DATE OF ISSUE 21 MAY 92

COUPONS NOT VALID BEFORE 2
 ORIGINAL ISSUE

COUPONS NOT VALID AFTER 7
 TICKET DESIGNATOR IF

TO	FROM	CARRIER	FLIGHT/CLASS	DATE	TIME	STATUS	FARE BASIS	ALLOW
BAL	BAL	A3	126	07 Jun	7:30	OK	Y	IF
NYP	BAL	A3	109	07 Jun	10:00	OK	Y	IF

FARE EQUIV. FARE PD. 143.00

TOTAL 143.00

FORM OF PAYMENT AX 378743691952005 exp

PASSENGER TICKET & BAGGAGE CHECK - ISSUED BY 10/92

Amtrak 554 1

SUBJECT TO CONDITIONS OF CONTRACT ON PASSENGERS COUPON

554 8236672553 4 □



1992 IEEE Neural Networks Council Document
Stany TRAVEL SERVICE, INC.

806 J. VANCE BLDG. • 1402 THIRD AVE.
 SEATTLE, WASHINGTON 98101-2169



TEL (206) 623-3957
 FAX (206) 622-9552

SALES PERSON: JT
 CUSTOMER NBR: UNDFWA

ITINERARY

SMKJKI

DATE: 28 MAY 92
 PAGE: 01

TO: PROF MARKS
 C/O UNIVERSITY OF WASHINGTON

ITINERARY

TERMS: The invoice below represents an immediate transfer of funds on your behalf and is payable within 5 days unless prior credit arrangements have been made. Overdue accounts are subject to 1 1/2% per month interest from date of invoice.

FOR: MARKS/PROF

06 JUN 92 - SATURDAY

AIR UNITED AIRLINES FLT#1140 ECONOMY BREAKFAST
 LV SEATTLE TACOMA 700A EQP# DC-10
 AR CHICAGO OHARE 1248P NON-STOP
 RESERVED SEAT 31B

AIR UNITED AIRLINES FLT#1616 ECONOMY
 LV CHICAGO OHARE 147P EQP# 727 STRETCH
 AR BALTIMORE WASHNTN 438P NON-STOP

HOTEL BALTIMORE WASHNTN 1 NIGHT OUT-07JUN
 SHERATON INNER HARBOR 1 ROOM
 300 S CHARLES ST. 21201 RATE-PREPAID PER NIGHT
 BALTIMORE, MD
 PH301-962-8300

07 JUN 92 - SUNDAY

AIR AMTRAK FLT#126 COACH
 LV BALTIMORE WASHNTN 730P
 AR NEW YORK CITY 953P
 HOTEL NEW YORK CITY 2 NIGHTS OUT-09JUN
 BEEKMAN HOTEL 1 ROOM
 3 MITCHELL PL 49TH ST AND FIR RATE-PREPAID PER NIGHT
 PH212-355-7300

09 JUN 92 - TUESDAY

AIR AMTRAK FLT#109 COACH
 LV NEW YORK CITY 1000A
 AR BALTIMORE WASHNTN 1216P

11 JUN 92 - THURSDAY

AIR UNITED AIRLINES FLT#515 ECONOMY SNACK
 LV BALTIMORE WASHNTN 502P EQP# 737-300
 AR CHICAGO OHARE 615P NON-STOP
 RESERVED SEAT 17D
 AIR UNITED AIRLINES FLT#755 ECONOMY DINNER
 LV CHICAGO OHARE 700P EQP# DC-10
 AR SEATTLE TACOMA 913P NON-STOP
 RESERVED SEAT 35H

01 AIRFARE IS 500.00 USING CONTRACT RATE
 02 AMTRAK AIRFARE IS 143.00TOT

THANK YOU WE APPRECIATE YOUR BUSINESS

Please note reminders on reverse of ticket cover.



Sheraton Inner Harbor
 HOTEL
 BALTIMORE

ACCOUNT 104236 (A)
 MARKS, ROBERT

PAGE 1

ROOM 906

DATE	CODE NO.	TICKET NO.	EXPLANATION	CHARGES / CREDITS	
1992					
JUN06	E11	00259	TELEPHONE	.75	99
JUN07	001	0000E	PAID CASH	.75CR	19
			TOTAL-DUE	00	

NEW YORK
 METER 928552-107
 TRIP # 9979
 ST. TIME 10:20PM
 END TIME 10:31PM
 DATE JUN-07-92
 DIST 2.66
 FARE \$ 5.50
 EXTRA \$ 0.50
 TOT FARE\$ 6.00
 FOR COMPLAINTS:
 1-212-221-TAXI

06/06/92
 06/07/92

IEE6NR

IF YOUR BILL IS TO BE CHARGED TO ANY CREDIT CARD THE SIGNATURE BELOW IS DEEMED TO HAVE BEEN MADE ON THE APPLICABLE CREDIT CARD VOUCHER.

I AGREE THAT MY LIABILITY FOR THIS BILL IS NOT WAIVED AND AGREE TO BE HELD PERSONALLY LIABLE IN THE EVENT THAT THE INDICATED PERSON, COMPANY OR ASSOCIATION FAILS TO PAY FOR ANY PART OR THE FULL AMOUNT OF THESE CHARGES.

SHERATON INNER HARBOR HOTEL, OWNED BY BALTIMORE HARBOR CENTER, A LIMITED PARTNERSHIP, AND MANAGED BY SHERATON OPERATING CORPORATION AS AGENT UNDER MANAGEMENT CONTRACT.

GUEST SIGNATURE

ITT Sheraton
 WORLDWIDE HOTELS, INNS, RESORTS & ALL-SUITES

300 SOUTH CHARLES STREET, BALTIMORE, MARYLAND, 21201



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

EXPENSE REPORT FOR PERIOD ENDING 6/11 19 92

TRAVELING IN CAPACITY OF (CHECK ONE)

(NAME)
Robert J. Marks II
(ADDRESS TO SEND CHECK)
Dept. of E.E. - F1-10
University of Washington
Seattle, WA 98195

- MEMBER OF IEEE STAFF _____ (Dept.)
- MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
- IEEE REGIONAL DIRECTOR
- IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE
Past President NN Council; Editor TNN
(Name of Board or Committee)

TRIP AUTHORIZATION NO. NNC

PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY

NNC Publications Comm

NNC AdCom

Editors' Board

Travel

Associate Editors' Meeting

Travel

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

DETAILS	DATE	6/6/92	6/7	6/8	6/9	6/10	6/11	TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)
TOWN		Seattle/Baltimore	Balt/ NYC	NYC	NYC/Balt	Balt	Balt/Seattle		
PERSNL. AUTO MILEAGE									
TRANSPORTATION TOLLS - PARKING									
MILEAGE ALLOWANCE									
TAXI - BUS SEE REVERSE SIDE (1)		33 00	16 50		11 00			60 50	
PLANE - TRAIN - AUTO RENTAL		500 00	143 00					643 00	
LODGING/SELF			188 84		377 68			377 68	
MEALS/SELF SEE REVERSE SIDE (2)					14 23	8 10	20 25	42 58	
OFFICIAL GUEST SEE REVERSE SIDE (3)									
MISCELLANEOUS TEL. & TEL.			75		75			1 50	
TIPS - GRATUITIES		2 00	1 60		2 00			5 60	
OTHER (4)									
TOTAL EXPENSE		535 00	161 85		405 66	8 10	20 25	1,130 86	

PROVIDE DETAILS BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).	LESS CHARGED DIRECT TO IEEE	
	LESS ADVANCE FROM IEEE	500 00
(4) <i>Travel</i>	BALANCE DUE FROM (TO) IEEE	630 86

	ACCOUNT NO.	AMOUNT	AMOUNT OF CHECK
(5)	30-0110-01900	1130 86	
	40821-0505		
	30-0110-00000 (500 00)		
SIGNATURE <i>[Signature]</i>	DATE 6/12/92	11900-05-05	
APPROVAL <i>[Signature]</i>	DATE 6/24/92		
APPROVAL <i>[Signature]</i>	DATE 7/17/92	\$ 630 86	

BELOW FOR ACCOUNTING DEPT. USE ONLY

DISTRIBUTED BY APPROVED BY

VOUCHER NO.	VENDOR NO. 6402291	PAY WEEK	MOVE CODE
-------------	--------------------	----------	-----------



file

IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

June 12, 1992

(908) 562- 3861

Professor Robert J. Marks, II
Interactive Systems Design Lab
Dept. EE Ft-10
University of Washington
Seattle, WA 98195

Dear Professor Marks;

At the request of Dr. Roy Nutter, under separate cover, we will be sending you a check in the amount of \$500.00 as an advance for expenses on behalf of the IEEE Neural Networks Council.

IMPORTANT NEW REGULATION

Effective November 1, 1991, the Internal Revenue Services (IRS) has issued a new directive on advances received by individuals. It is now mandatory that any advance you receive must have all expenses reported WITHIN 120 DAYS. Any funds which are not spent and that are not returned now must be reported to the IRS as income to you.

We ask your cooperation in handling this restrictive ruling. Prompt reports submitted to us, with appropriate original receipts and balances, will allow us all to comply with these new IRS regulations.

Sincerely yours

A handwritten signature in cursive script that reads "Marilyn Prusan".

Marilyn Prusan
Finance Administrator
Technical Activities

CC Roy Nutter

UNIVERSITY OF WASHINGTON

September 3, 1992

To: Perry Sensi

From: Ruth Wagner
Secretary to Robert J. Marks II

Subject: Travel to TMC meeting September 18

As requested by Dov Jaron on the enclosed copy of an e-mail message, I have enclosed a copy for your records.

Mail for Ruth Wagner

From djaron@nsf.gov Wed Sep 2 14:33:29 1992
From: Dov Jaron <djaron@nsf.gov>
To: Ruth Wagner <wagner@uw-isdl.ee.washington.edu>
Subject: Re: Meetings Council
Date: Wed, 2 Sep 1992 17:18:40 -0500

Approved. Please send copy of this email to Perry Sensi for his records.
Dov

>The air fare for Dr. Marks for the Meetings Council is \$500. His hotel room
>will be \$89.00 plus 12% tax. (We do not have a corporate number so do not
>qualify for corporate travel rate).
>
>Ruth Wagner
>Sec to Robert J. Marks II

Mail for Ruth Wagner

1

Sat, 1 Aug 92 23:45:33 EDT

From rsn@ece.wvu.wvnet.edu Sat Aug 1 20:56:40 1992
From: rsn@ece.wvu.wvnet.edu (Roy S Nutter)
To: wagner@uw-isdl.ce.washington.EDU
Subject: Re: Marks - advance
Date: Sat, 1 Aug 92 23:45:33 EDT

To: Ruth

I expect that this has already gone to IEEE. If you recieve it, I am sure they will be happy to get it back.

....rsn

>
> On July 20 I sent a letter from Prof. Marks requesting a \$500 advance for
> the TAB meeting in Denver. Prof. Marks will not be attending TAB so please
> do not process this request (and we discovered TAB is in Sparks, not Denver).
>
> Ruth, Sec. to Prof. Marks
>

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

013518

06-JUL-92 CUST. ACCT. NO.

VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
12-JUN-92	12-JUN-9200	500.00
			\$.00	\$500.00



PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

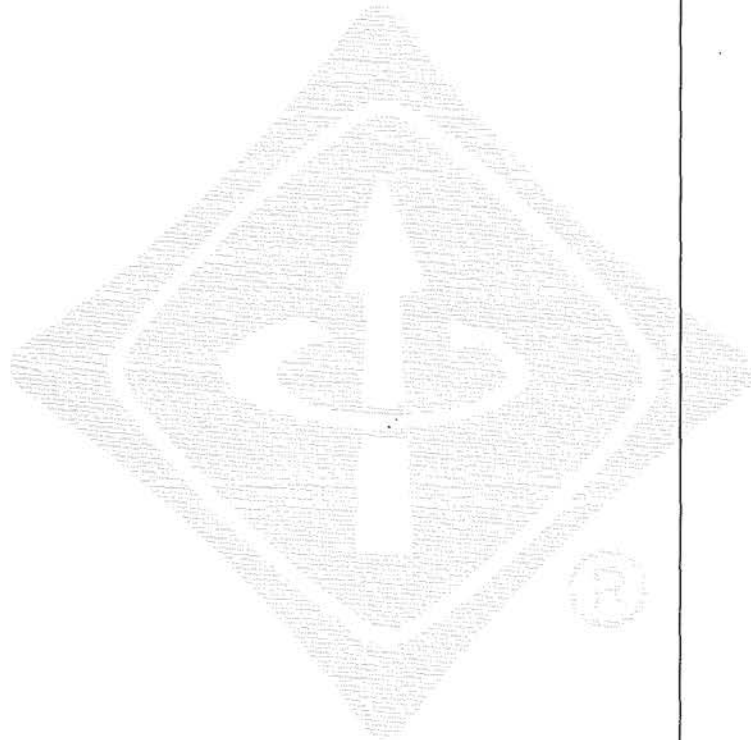
Thank You

345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

014300

11-JUL-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
11-JUN-92	11-JUN-92	Expense report for period ending June 11, 1992	.00	630.86
			\$.00	\$ 630.86



PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You

ISSUED BY: NORTHWEST AIRLINES
 ENDORSEMENTS/RESTRICTIONS (CARBON):
 (1072) (12-88) PASSENGER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS OF CARRIER AND THIS TICKET (CONJUNCTION TICKETS)
 ARC PASSENGER COUPON
 DATE OF ISSUE: 14 SEP 92
 ORIGIN/DESTINATION: SEA/TSEA
 BOOKING REFERENCE: 000003
 TICKET TYPE: PASSENGER
 ISSUED IN EXCHANGE FOR:
 STANG TRAVEL
 PSGR CPN, A
 50 861277-4

PASSENGER NAME: MARLE ROBERT OP NOT TRANSFERABLE

NO	FROM	NOT GOOD FOR PASSAGE	CARRIER	FLIGHT	CLASS	DATE	TIME	STATUS	FARE BASIS/TKT. DESIGNATOR	NOT VALID BEFORE	NOT VALID AFTER	ALLOW
1	SEATTLE	TACOMA	NW	252	Y	17 SEP	1230P	OK	000WA			
2	DETROIT	METRO	NW	348	Y	17 SEP	840P	OK	000WA			
3	SEATTLE	TACOMA	NW	252	Y	18 SEP	720P	OK	000WA			
4	MINNEAPOLIS	ST PA	NW	157	Y	18 SEP	1009P	OK	000WA			
5	SEATTLE	TACOMA	NW	252	Y	19 SEP	1230P	OK	000WA			

FARE: 451.01
 EQUIV. FARE PD. FARE CALCULATION: SEA NW DET NW METRO DET NW SEA NW SEA 224.54 451.01 END
 TAX: 15.19US
 TAX: 2.002F
 TOTAL: 500.00
 AL-AGT. INFO. 011/R300JT
 CONTROL NO. 43641215673

FORM OF PAYMENT: 4378742700951000 10-92
 ORIGINAL ISSUE: 000003
 TOUR CODE: 10

CPN: AIRLINE CODE FORM SERIAL NUMBER CK
 012 7711577741 0

DO NOT MARK OR WRITE IN THE WHITE AREA ABOVE



GUEST RECEIPT

9/18 \$23.00
 DATE AMOUNT DRIVER

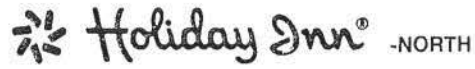
We offer Door to Door Service to and from your home, office or hotel - 24 hours a day, everyday.
 Call 622-1424 or 1-800-487-RIDE.



GUEST RECEIPT

9/17/92 \$23.00 ED G...
 DATE AMOUNT DRIVER

We offer Door to Door Service to and from your home, office or hotel - 24 hours a day, everyday.
 Call 622-1424 or 1-800-487-RIDE.



160 Holiday Plaza
 Newark, N.J. 07114
 201-589-1000

Name & Address
 MARKS/ROBERT
 1131 199 ST
 SOUTH WEST, LYNN, WA 98036

Room	807
Arrival Date	17SEP 22:54
Dept. Date	18SEP 06:29
Adult/Child	170
Room Rate	89.00

CB

Operated by an independent owner under franchise from Holiday Inns, Inc.

The management is not responsible for any valuables not secured in safety deposit boxes provided at the front office. I agree that my liability for the charges is not waived and agree to be held personally liable in the event that the indicated person, company or association fails to pay for any part or the full amount of such charges.

X
 SIGNATURE

DATE	REFERENCE	DESCRIPTION	AMOUNT
17SEP	1000188	02:16 Guest Room	89.00
	93000188	02:16 Room Tax	10.68
18SEP	116000444	06:29 DS 6011007673000843/7307 18103947931	99.68cr
** Balance **			0

ACCT. NO.	
CARD MEMBER NAME	MARKS/ROBERT
ESTABLISHMENT NO. & LOCATION	HOLIDAY INN NORTH NEWARK, NEW JERSEY 1111
CARD MEMBER'S SIGNATURE	

DATE OF CHARGE	FOLIO NO./CHECK NO.
17SEP	059479
AUTHORIZATION	INITIALS
PURCHASES & SERVICES	99.6
TAXES	
TIPS & MISC.	
TOTAL AMOUNT	99.6

806 J. VANCE BLDG. • 1402 THIRD AVE.
 SEATTLE, WASHINGTON 98101-2169



Member
 American Society of Travel Agents
 TEL (206) 623-3957
 FAX (206) 622-9552



SALES PERSON: JT

ITINERARY/INVOICE NO. 0001141
 RHHFDN

DATE: 14 SEP 92
 PAGE: 01

TO: C/O UNIVERSITY OF WASHINGTON
 DEPT OF ELECTRICAL ENGINEERING FT-1-
 SEATTLE, WA 98195

ITINERARY

TERMS: The invoice below represents an immediate transfer of funds on your behalf and is payable within 5 days unless prior credit arrangements have been made. Overdue accounts are subject to 1 1/2% per month interest from date of invoice.

FOR: MARKS/ROBERT DR

14 SEP 92 - THURSDAY

AIR	NORTHWEST AIRLINES	FLT#282	ECONOMY	LUNCH
	LV SEATTLE TACOMA		1230P	EQP# DC-10
	AR DETROIT METRO		734P	NON-STOP
	RESERVED SEAT 27C			
AIR	NORTHWEST AIRLINES	FLT#368	ECONOMY	
	LV DETROIT METRO		840P	EQP# 727 STRETCH
	AR NEWARK		1019P	NON-STOP

18 SEP 92 - FRIDAY

AIR	NORTHWEST AIRLINES	FLT#361	ECONOMY	SNACK
	LV NEWARK		720P	EQP# 320
	AR MINNEAPOLIS ST PL		914P	NON-STOP
	RESERVED SEAT 13C			
AIR	NORTHWEST AIRLINES	FLT#157		SNACK
	LV MINNEAPOLIS ST PL		1005P	EQP# BOEING 757
	AR SEATTLE TACOMA		1139P	NON-STOP
	RESERVED SEAT 33C			

AIR TICKET	NM7711577741	MARKS ROBERT DR	
		BILLED TO AX378742730951002	500.00
		SUB TOTAL	500.00
		LESS AMOUNT BILLED TO CC	500.00
		TOTAL AMOUNT	0.00

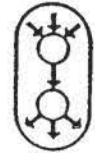
ImageCheck and TicketCheck by Rand McNally PRINTED IN U.S.A. BY RAND McNALLY REV. 9-89 1072

THANK YOU WE APPRECIATE YOUR BUSINESS

Please note reminders on reverse of ticket cover.
 Robert J. Marks II Library Archive



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

September 1, 1992

Dr. Roy S. Nutter, Jr., Treasurer
IEEE Neural Networks Council
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

Dear Roy,

Enclosed is a receipt for \$49.56 in phone calls I made in my duties as Past President of the Council.

Please remit this amount to me at the above address.

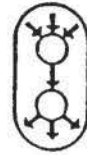
Sincerely,

A handwritten signature in dark ink, appearing to read 'R. J. Marks II'.

Robert J. Marks II, Past President
IEEE Neural Networks Council



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

September 1, 1992

Dr. Roy S. Nutter, Jr., Treasurer
IEEE Neural Networks Council
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

Dear Roy,

Enclosed is a receipt for \$49.56 in phone calls I made in my duties as Past President of the Council.

Please remit this amount to me at the above address.

Sincerely,

A handwritten signature in cursive, appearing to read 'R. Marks II'.

Robert J. Marks II, Past President
IEEE Neural Networks Council

CURRENT CHARGES	TOTAL
DOMESTIC LONG DISTANCE	\$24.48
DOMESTIC MCI CARD	\$48.10
FRIENDS AND FAMILY DISCOUNT	5.64CR
FEDERAL TAX	2.02
STATE AND LOCAL TAXES	4.76
STATE AND LOCAL SURCHARGE	.32
TOTAL CURRENT CHARGES	\$74.04
PREVIOUS BALANCE (DISREGARD, IF PAID)	173.15
PAYMENTS THROUGH AUG 21 -- THANK YOU	174.11CR
ADJUSTMENTS	.00
BALANCE DUE FROM PREVIOUS CHARGES	.96CR
TOTAL AMOUNT DUE BY 09/12/92	\$73.08

FOR CUSTOMER SERVICE CALL: 1-800-444-3333
 TDD CUSTOMER SERVICE--CALL TOLL FREE 1-800-333-0700

-----DETAIL OF CARD CALLS-----								
NO.	DATE	TIME	KEY	TO/FROM	NUMBER	MIN	AMOUNT	
CALLS FOR MCI CARD 2067768995								
1.	JUL 23	05:40A	N	TO NEW YORK NY	212-705-7356	4	1.18	
				FR EVERETT WA	950-1022			
2.	JUL 23	05:44A	N	TO NEW YORK NY	212-705-7366	1	.85	
				FR EVERETT WA	950-1022			
3.	JUL 30	12:04P	D	TO BRONX NY	212-548-4525	1	.98	
				FR EVERETT WA	950-1022			
4.	JUL 30	12:07P	D	TO DURHAM NC	919-660-5278	1	.98	
				FR EVERETT WA	950-1022			
5.	JUL 30	12:31P	D	TO NEWBRNSWCK NJ	908-932-0548	1	.98	
				FR EVERETT WA	950-1022			
6.	JUL 30	12:33P	D	TO LUBBOCK TX	806-742-3500	1	.98	
				FR EVERETT WA	950-1022			
7.	JUL 30	12:35P	D	TO LA JOLLA CA	619-455-5530	1	.98	
				FR EVERETT WA	950-1022			
8.	JUL 30	12:36P	D	TO LA JOLLA CA	619-455-5530	16	4.58	
				FR EVERETT WA	950-1022			



-----DETAIL OF CARD CALLS-----								
NO.	DATE	TIME	KEY	TO/FROM	NUMBER	MIN	AMOUNT	
9.	JUL 30	03:17P	D	TO KITTEERY ME	207-439-7021	1	.98	
				FR EVERETT WA	950-1022			
10.	JUL 30	07:51P	EF	TO MAPLE HTS OH	216-663-5610	22	3.71	
				FR EVERETT WA	950-1022			
11.	JUL 31	05:01A	N	TO RENO NV	702-356-3300	2	.96	
				FR SEATTLE WA	950-1022			
12.	AUG 03	02:04P	D	TO DURHAM NC	919-541-7123	35	9.14	
				FR EVERETT WA	950-1022			
13.	AUG 07	11:35A	D	TO WINSTN SAL NC	919-716-3908	18	5.06	
				FR SEATTLE WA	950-1022			
14.	AUG 07	01:02P	D	TO DURHAM NC	919-541-7123	1	.98	
				FR SEATTLE WA	950-1022			
15.	AUG 13	11:37A	D	TO DUNELLEN NJ	908-562-3873	6	2.18	
				FR EVERETT WA	950-1022			
16.	AUG 13	11:46A	D	TO DUNELLEN NJ	908-562-3998	1	.98	
				FR EVERETT WA	950-1022			
17.	AUG 13	01:12P	D	TO DUNELLEN NJ	908-562-3998	19	5.30	
				FR EVERETT WA	950-1022			



Robert J. Marks II Library Archive

DETAIL OF CARD CALLS								
NO.	DATE	TIME	KEY	TO/FROM		NUMBER	MIN	AMOUNT
18.	AUG 14	11:00A	D	TO AUSTIN TX		512-834-7230	1	.98
				FR EVERETT WA		950-1022		
19.	AUG 17	12:18P	D	TO AUSTIN TX		512-834-7230	1	.98
				FR EVERETT WA		950-1022		
20.	AUG 17	12:19P	D	TO MORENO CA		714-242-1056	1	.98
				FR EVERETT WA		950-1022		
21.	AUG 19	05:45P	E	TO IRVINE CA		714-252-1056	5	1.42
				FR EVERETT WA		950-1022		
22.	AUG 21	11:56A	D	TO NEW YORK NY		212-705-7682	1	.98
				FR EVERETT WA		950-1022		
23.	AUG 21	11:58A	D	TO AUSTIN TX		512-834-7230	1	.98
				FR EVERETT WA		950-1022		
24.	AUG 21	12:49P	D	TO NEW YORK NY		212-705-7408	1	.98
				FR EVERETT WA		950-1022		
TOTAL CALLS FOR MCI CARD 2067768995							142	\$48.10
TOTAL CARD CALLS							142	\$48.10

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

020345
06402291

30-OCT-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
19-OCT-92	19-OCT-92	Expense Reimbursement	.00	107.33

*Ruth
FYI
[Signature]*

PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You

\$.00 \$107.33



file

IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

October 15, 1992

(908) 562-3861

Professor Robert J. Marks, II
Interactive Systems Design Lab
Dept. of EE FT-10
University of Washington
Seattle, WA 98195

Dear Professor Marks

At the request of Roy Nutter, under separate cover, we will be sending you a check in the amount of \$2,250.00 as an advance for expenses of the IEEE Neural Networks Council.

IMPORTANT

Effective November 1, 1991, the Internal Revenue Service (IRS) issued a directive on advances received by individuals. It is now mandatory that any advance you receive must have all expenses reported within 120 days. Any funds which are not spent and that are not returned now must be reported to the IRS as income to you.

We ask your cooperation in handling this restrictive ruling. Prompt reports submitted to us, with appropriate original receipts and balances, will allow us all to comply with this ruling.

Sincerely yours

A handwritten signature in cursive script that reads "Marilyn Prusan".

Marilyn Prusan
Administrator
Technical Activities

CC Roy Nutter

ast 47th Street, Ne . . . Y. 10017-2394, U.S.A.

018232

T-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

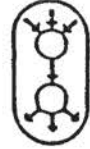
INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
01-OCT-92	Expense Report For Period Ending 18-Sep-92	.00	645.68
<i>Ruth F.V.I. -Bob-</i>			
<i>Lynwood WA 98036-7136</i>			
		<i>06492-041</i>	
		\$.00	\$ 645.68

DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

September 14, 1992

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

I hereby request an advance of \$2,250 of travel expenses to attend the Executive Committee Meeting in Beijing this November. Please request that a check be issued to me and sent to the University address. Thanks you.

Sincerely,

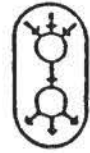
A handwritten signature in cursive that reads 'Bob' with a small 'w' at the end.

Robert J. Marks II
Past President

SS# [REDACTED]
IEEE 6402291



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

September 14, 1992

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

I hereby request an advance of \$2,250 of travel expenses to attend the Executive Committee Meeting in Beijing this November. Please request that a check be issued to me and sent to the University address. Thanks you.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Bob' with a small flourish at the end.

Robert J. Marks II
Past President

SS# [REDACTED]
IEEE 6402291

Mail for Ruth Wagner

1

Mon, 14 Sep 92 10:03:19 -0700

From marks@u.washington.edu Mon Sep 14 10:02:27 1992
From: Robert Marks <marks@u.washington.edu>
To: wagner@essex.ce.washington.edu
Cc: marks@u.washington.edu
Date: Mon, 14 Sep 92 10:03:19 -0700

From rce@rti.rti.org Mon Sep 7 17:52:18 1992
Received: from bashful.u.washington.edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.22) id AA08185; Mon, 7 Sep 92 17:52:16

-0700

Received: from rtifs2.rti.org by bashful.u.washington.edu
(5.65/UW-NDC Revision: 2.22) id AA28777; Mon, 7 Sep 92 17:52:13

-0700

Received: by rtifs2.rti.org (5.57/RTI/2-27-90)
id AA04984; Mon, 7 Sep 92 20:47:37 -0400

Received: by babar.rti.org (5.57/RTI/9-21-87)
id AA24178; Mon, 7 Sep 92 20:51:32 -0400

Date: Mon, 7 Sep 92 20:51:32 -0400
From: Russel Eberhart <rce%babar@rti.rti.org>
Message-Id: <9209080051.AA24178@babar.rti.org>
To: marks@u.washington.edu
Subject: Re: Beijing
Cc: rsn@a.coe.wvu.wvnet.edu

To Bob Marks:
Your request that the Council cover your normal and necessary expenses f
or
travel to the
ExCom meeting in Beijing is approved.
*Russell C. Eberhart, NNC President

\/
\/

Ruth,
Type, sign & mail to Neuter,

(Make that ROY NUTTER)

Dear Roy,

I hereby request an advance of \$2,250 OF TRAVEL EXPENSES TO ATTent the
Executive Committee meeting in Beijing this November

(or something like that)

The letter should include my SS# [redacted] and IEEE #.

Thanks!

Bob

sent 9/14/92

Mail for Ruth Wagner

1

Mon, 14 Sep 92 10:03:19 -0700

From marks@u.washington.edu Mon Sep 14 10:02:27 1992
From: Robert Marks <marks@u.washington.edu>
To: wagner@essex.ee.washington.edu
Cc: marks@u.washington.edu
Date: Mon, 14 Sep 92 10:03:19 -0700

From rce@rti.rti.org Mon Sep 7 17:52:18 1992
Received: from bashful.u.washington.edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.22) id AA08185; Mon, 7 Sep 92 17:52:16

-0700

Received: from rtifs2.rti.org by bashful.u.washington.edu
(5.65/UW-NDC Revision: 2.22) id AA28777; Mon, 7 Sep 92 17:52:13

-0700

Received: by rtifs2.rti.org (5.57/RTI/2-27-90)
id AA04984; Mon, 7 Sep 92 20:47:37 -0400

Received: by babar.rti.org (5.57/RTI/9-21-87)
id AA24178; Mon, 7 Sep 92 20:51:32 -0400

Date: Mon, 7 Sep 92 20:51:32 -0400
From: Russel Eberhart <rce%babar@rti.rti.org>
Message-Id: <9209080051.AA24178@babar.rti.org>
To: marks@u.washington.edu
Subject: Re: Beijing
Cc: rsn@a.coe.wvu.wvnet.edu

To Bob Marks:
Your request that the Council cover your normal and necessary expenses f
or
travel to the
ExCom meeting in Beijing is approved.
*Russell C. Eberhart, NNC President

\/
\/

Ruth,
Type, sign & mail to Neuter,

(Make that ROY NUTTER)

Dear Roy,

I hereby request an advance of \$2,250 OF TRAVEL EXPENSES TO ATTent the
Executive Committee meeting in Beijing this November

(or something like that)

The letter should include my SS# [REDACTED] and IEEE #.

Thanks!

Bob



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

September 30, 1992

Roy S. Nutter, Jr., Treasurer
IEEE Neural Networks Council
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

Dear Roy,

Attached are original receipts for items purchased in regard to my duties as Past President.

MCI Phone Calls	\$97.10
Fed Tax	\$ 3.10
State & Local	\$ 6.66
Surcharge	\$ 0.47
TOTAL	\$107.33

Please remit this total to me at the address on the letterhead.

Sincerely,

Robert J. Marks, Editor-in-Chief
IEEE Transactions on Neural Networks

Robert J. Marks II
SS# [REDACTED]
IEEE# 6402291

CURRENT CHARGES	TOTAL
DOMESTIC LONG DISTANCE	\$6.20
DOMESTIC MCI CARD	\$97.10
FRIENDS AND FAMILY DISCOUNT	.47CR
FEDERAL TAX	3.10
STATE AND LOCAL TAXES	6.66
STATE AND LOCAL SURCHARGE	.47
TOTAL CURRENT CHARGES	\$113.06
PREVIOUS BALANCE (DISREGARD, IF PAID)	73.08
PAYMENTS THROUGH SEP 21 -- THANK YOU	73.08CR
ADJUSTMENTS	.00
BALANCE DUE FROM PREVIOUS CHARGES	.00
TOTAL AMOUNT DUE BY 10/13/92	\$113.06

FOR CUSTOMER SERVICE CALL: 1-800-964-2458
 TDD CUSTOMER SERVICE--CALL TOLL FREE 1-800-333-0700

ACCOUNT 6B316295 INVOICE 88685968 CYCLE 22 SEPTEMBER 22, 1992 4 406234BUN

NO.	DATE	TIME	KEY	DETAIL OF TO/FROM	CARD	CALLS NUMBER	MIN	AMOUNT

CALLS FOR MCI CARD 2067768995								
1.	AUG 24	12:25P	D	TO AUSTIN TX		512-834-7230	1	.98
				FR EVERETT WA		950-1022		
2.	AUG 24	12:26P	D	TO AUSTIN TX		512-328-7731	1	.98
				FR EVERETT WA		950-1022		
3.	AUG 24	12:27P	D	TO GLENSHAW PA		412-487-8336	68	17.06
				FR EVERETT WA		950-1022		
4.	AUG 24	01:35P	D	TO AUSTIN TX		512-328-7731	2	1.22
				FR EVERETT WA		950-1022		
5.	AUG 24	01:38P	D	TO AUSTIN TX		512-328-7731	17	4.82
				FR EVERETT WA		950-1022		
6.	AUG 24	01:55P	D	TO LOS ALAMOS NM		505-667-9471	1	.98
				FR EVERETT WA		950-1022		
7.	AUG 24	04:59P	D	TO LA JOLLA CA		619-453-6222	2	1.12
				FR EVERETT WA		950-1022		
8.	AUG 28	12:14P	D	TO NEW YORK NY		212-705-7366	1	.98
				FR EVERETT WA		950-1022		

MCI

ACCOUNT 6B316295 INVOICE 88685968 CYCLE 22 SEPTEMBER 22, 1992 5 406235BUN

NO.	DATE	TIME	KEY	DETAIL OF TO/FROM	CARD	CALLS NUMBER	MIN	AMOUNT

9.	AUG 28	12:15P	D	TO DUNELLEN NJ		908-562-3998	4	1.70
				FR EVERETT WA		950-1022		
10.	AUG 28	12:22P	D	TO DURHAM NC		919-541-7123	1	.98
				FR EVERETT WA		950-1022		
11.	AUG 28	06:52P	E	TO IRVINE CA		714-476-2001	3	1.15
				FR SEATTLE WA		950-1022		
12.	AUG 28	07:07P	E	TO IRVINE CA		714-476-2001	1	.88
				FR SEATTLE WA		950-1022		
13.	AUG 28	07:29P	E	TO IRVINE CA		714-476-2001	1	.88
				FR SEATTLE WA		950-1022		
14.	AUG 28	07:41P	E	TO IRVINE CA		714-476-2001	2	1.01
				FR SEATTLE WA		950-1022		
15.	AUG 28	07:45P	E	TO IRVINE CA		714-252-1056	1	.88
				FR SEATTLE WA		950-1022		
16.	AUG 28	08:04P	E	TO IRVINE CA		714-476-2001	2	1.01
				FR SEATTLE WA		950-1022		
17.	AUG 28	08:29P	E	TO IRVINE CA		714-476-2001	2	1.01
				FR SEATTLE WA		950-1022		

MCI

NO.	DATE	TIME	KEY	DETAIL OF CARD CALLS		NUMBER	MIN	AMOUNT
				TO/FROM				
18.	AUG 28	08:41P	E	TO IRVINE	CA	714-476-2001	1	.88
				FR SEATTLE	WA	950-1022		
19.	AUG 28	09:28P	E	TO IRVINE	CA	714-476-2001	2	1.01
				FR SEATTLE	WA	950-1022		
20.	AUG 28	09:30P	E	TO IRVINE	CA	714-476-2001	1	.88
				FR SEATTLE	WA	950-1022		
21.	AUG 31	12:24P	D	TO WOODBURY	NJ	609-845-1720	4	1.70
				FR EVERETT	WA	950-1022		
22.	AUG 31	12:28P	OD	TO MORGANTOWN	WV	304-293-6375	3	1.50
				FR ORIG CITY	NA	800-950-1022		
23.	AUG 31	12:54P	D	TO GLENSHAW	PA	412-487-8336	41	10.58
				FR EVERETT	WA	950-1022		
24.	AUG 31	06:06P	E	TO NITRO	WV	304-776-6399	2	1.01
				FR EVERETT	WA	950-1022		
25.	AUG 31	06:24P	E	TO GLENSHAW	PA	412-487-8336	3	1.15
				FR EVERETT	WA	950-1022		
26.	SEP 02	12:23P	D	TO MORGANTOWN	WV	304-293-6375	1	.98
				FR EVERETT	WA	950-1022		

MCI

ACCOUNT 6B316295

INVOICE 88685968 CYCLE 22 SEPTEMBER 22, 1992

7 406237BUN

NO.	DATE	TIME	KEY	DETAIL OF CARD CALLS		NUMBER	MIN	AMOUNT
				TO/FROM				
27.	SEP 02	01:19P	D	TO MORGANTOWN	WV	304-293-6375	43	11.06
				FR EVERETT	WA	950-1022		
28.	SEP 02	01:27P	D	TO DURHAM	NC	919-541-6606	1	.98
				FR EVERETT	WA	950-1022		
29.	SEP 02	01:29P	D	TO DURHAM	NC	919-541-7123	33	8.66
				FR EVERETT	WA	950-1022		
30.	SEP 03	12:29P	D	TO SANTA FE	NM	505-984-8800	3	1.46
				FR EVERETT	WA	950-1022		
31.	SEP 03	12:55P	OD	TO MORGANTOWN	WV	304-293-6375	1	1.00
				FR ORIG CITY	NA	800-950-1022		
32.	SEP 03	12:57P	D	TO MORGANTOWN	WV	304-293-6375	1	.98
				FR EVERETT	WA	950-1022		
33.	SEP 03	12:58P	D	TO DURHAM	NC	919-541-7123	3	1.46
				FR EVERETT	WA	950-1022		
34.	SEP 03	01:00P	D	TO MORGANTOWN	WV	304-293-6375	1	.98
				FR EVERETT	WA	950-1022		
35.	SEP 03	01:02P	D	TO SANTA FE	NM	505-984-8800	8	2.66
				FR EVERETT	WA	950-1022		

MCI

ACCOUNT 6B316295

INVOICE 88685968 CYCLE 22 SEPTEMBER 22, 1992

8 406238BUN

NO.	DATE	TIME	KEY	DETAIL OF CARD CALLS		NUMBER	MIN	AMOUNT
				TO/FROM				
36.	SEP 14	09:53A	D	TO DURHAM	NC	919-541-7123	1	.98
				FR EVERETT	WA	950-1022		
37.	SEP 14	11:46A	D	TO DURHAM	NC	919-541-7123	1	.98
				FR EVERETT	WA	950-1022		
38.	SEP 14	05:25P	E	TO MT VIEW	CA	415-604-0583	58	8.57
				FR EVERETT	WA	950-1022		
TOTAL CALLS FOR MCI CARD 2067768995							322	\$97.10
TOTAL CARD CALLS							322	\$97.10

MCI

KEY

O = Operator Assisted
C = Collect Station To Station
R = Person To Person
P = Collect Person To Person
T = Billed To A Third Party

U = MCI Call-USA
I = International Calling Card
F = Friends & Family or
Friends of the Firm Discount

INTERSTATE RATES (May vary for INTRASTATE calling):

D = Day 8:00 AM - 5:00 PM Monday - Friday
E = Evening 5:00 PM - 11:00 PM Sunday - Friday
N = Night/Weekend 11:00 PM - 8:00 AM Every day
8:00 AM Saturday - 5:00 PM Sunday

INTERNATIONAL RATES:

S = Standard
X = Discount
Y = Economy

READ INSTRUCTIONS REFER TO IEEE TRAVEL REIMBURSEMENT MANUAL BEFORE COMPLETING THIS FORM

Robert J. Marks II Library Archive



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

EXPENSE REPORT FOR PERIOD ENDING ~~XXXXXX~~ 9/23/92 92

TRAVELING IN CAPACITY OF (CHECK ONE)

(NAME)
Robert J. Marks II
(ADDRESS TO SEND CHECK)
Dept. of EE - XXX FI-10
University of Washington
Seattle, WA 98195

- MEMBER OF IEEE STAFF _____ (Dept.)
- MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
- IEEE REGIONAL DIRECTOR
- IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE
Technical Meetings Council
(Name of Board or Committee)

TRIP AUTHORIZATION NO. _____ PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY

Travel

TAB Meeting - Travel

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

DETAILS	DATE	9/17	9/18							TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)
	TOWN										
PERSNL. AUTO MILEAGE											
TRANSPORTATION TOLLS - PARKING											
MILEAGE ALLOWANCE											
TAXI - BUS SEE REVERSE SIDE (1)		21 00	21 00							42 00	
PLANE - TRAIN - AUTO RENTAL -		500 00								500 00	
LODGING/SELF		99 68								99 68	
MEALS/SELF SEE REVERSE SIDE (2)											
OFFICIAL GUEST SEE REVERSE SIDE (3)											
MISCELLANEOUS TEL. & TEL.											
TIPS - GRATUITIES		2 00	2 00							4 00	
OTHER (4)											
TOTAL EXPENSE		622 68	23 00							645 68	

PROVIDE DETAILS BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

LESS CHARGED DIRECT TO IEEE

LESS ADVANCE FROM IEEE

(4) BALANCE DUE FROM (X) IEEE 645 68

ACCOUNT NO. AMOUNT

(5)

SIGNATURE *[Signature]* DATE 9/23/92

APPROVAL DATE

APPROVAL DATE

AMOUNT OF CHECK

BELOW FOR ACCOUNTING DEPT. USE ONLY

VOUCHER NO. VENDOR NO. PAY WEEK MOVE CODE

DISTRIBUTED BY APPROVED BY

Mail for Ruth Wagner

1

Tue, 1 Sep 92 14:18:03 PDT

From: wagner Tue Sep 1 14:18:09 1992
From: wagner (Ruth Wagner)
To: d.jaron@ieee.org, djaron@nsf.gov
Cc: marks@milton, wagner
Subject: Meetings Council
Date: Tue, 1 Sep 92 14:18:03 PDT

The air fare for Dr. Marks for the Meetings Council is \$500. His hotel room will be \$89.00 plus 12% tax. (We do not have a corporate number so do not qualify for corporate travel rate).

Ruth Wagner
Sec to Robert J. Marks II

Mail for Ruth Wagner

1

Wed, 2 Sep 1992 17:18:40 -0500

From: djaron@nsf.gov Wed Sep 2 14:33:29 1992
From: Dov Jaron <djaron@nsf.gov>
To: Ruth Wagner <wagner@uw-isdl.ee.washington.edu>
Subject: Re: Meetings Council
Date: Wed, 2 Sep 1992 17:18:40 -0500

Approved. Please send copy of this email to Perry Sensi for his records.
Dov

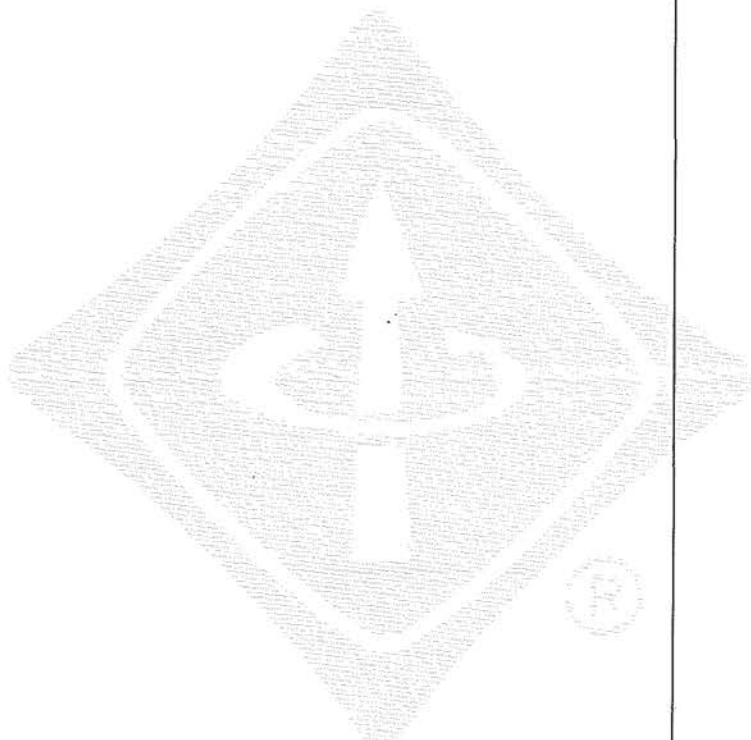
>The air fare for Dr. Marks for the Meetings Council is \$500. His hotel room
>will be \$89.00 plus 12% tax. (We do not have a corporate number so do not
>qualify for corporate travel rate).
>
>Ruth Wagner
>Sec to Robert J. Marks II

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

012365

17-JUN-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
15-MAY-92	15-MAY-92	EXPENSE REPORT FOR PERIOD ENDING 5/15/92	.00	622.86



PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You

\$.00

\$622.86

READ INSTRUCTIONS ON REVERSE SIDE OF FOLLOWING COPY AND REFER TO
 Robert J. Marks II Library Archive
 IEEE TRAVEL REIMBURSEMENT MANUAL BEFORE COMPLETING THIS FORM



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
 EXPENSE REPORT FOR PERIOD ENDING

May 21, 1992

TRAVELING IN CAPACITY OF (CHECK ONE)

(NAME)
 Robert J. Marks II
 (ADDRESS TO SEND CHECK)
 Electr. Engr. - FT-10
 University of Washington
 Seattle, WA 98195

- MEMBER OF IEEE STAFF _____ (Dept.)
- MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
- IEEE REGIONAL DIRECTOR
- IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE
 Technical Meetings Council
 (Name of Board or Committee)

TRIP AUTHORIZATION NO. _____

PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY

Travel
 Technical Meetings Council meeting

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

DETAILS	DATE	PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY						TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)
	TOWN								
PERSNL. AUTO MILEAGE	5/14/92	5/15							
TRANSPORTATION TOLLS - PARKING	Seattle	Piscataway							
MILEAGE ALLOWANCE	Newark	Seattle							
TAXI - BUS SEE REVERSE SIDE (1)	23 00	23 00					46 00		
PLANE - TRAIN - AUTO RENTAL	472 00						472 00		
LODGING/SELF	104 86						104 86		
MEALS/SELF SEE REVERSE SIDE (2)									
OFFICIAL GUEST SEE REVERSE SIDE (3)									
MISCELLANEOUS TEL. & TEL.									
TIPS - GRATUITIES									
OTHER (4)									
TOTAL EXPENSE	599 86	23 00					622 86		

PROVIDE DETAILS BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

LESS CHARGED DIRECT TO IEEE

LESS ADVANCE FROM IEEE

BALANCE DUE FROM (TO) IEEE

622 86

ACCOUNT NO.

AMOUNT

SIGNATURE

DATE

APPROVAL

DATE

APPROVAL

DATE

\$

AMOUNT OF CHECK

BELOW FOR ACCOUNTING DEPT. USE ONLY

DISTRIBUTED BY

APPROVED BY

VOUCHER NO.

VENDOR NO.

PAY WEEK

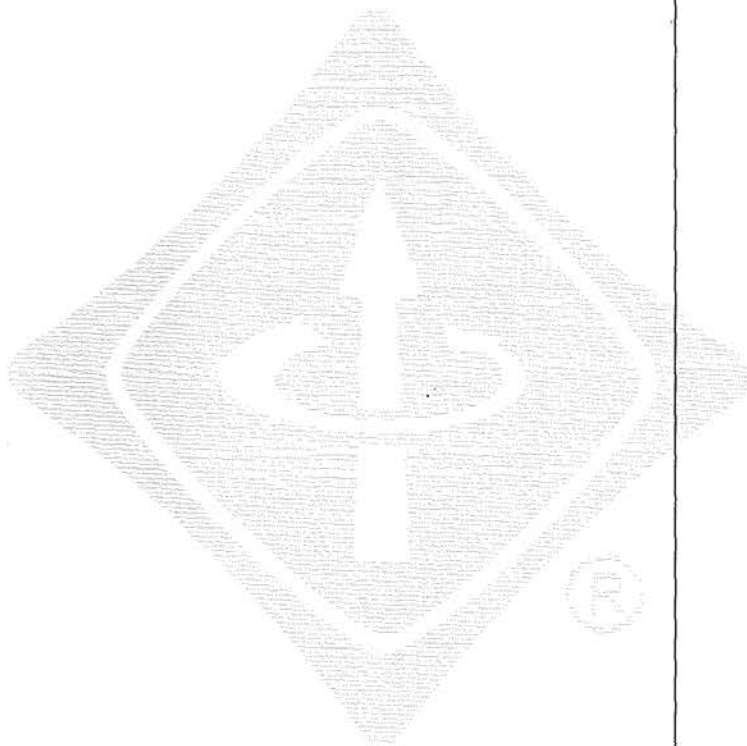
MOVE CODE

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

010298

08-MAY-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
8-APR-92	28-APR-92	REIMB OF DIV X TELECONF MTG FOR NOMINATING CMTE	.00	88.23



\$.00 \$88.23

LEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You

READ INSTRUCTIONS ON REVERSE SIDE OF FORM. REFER TO
 IEEE TRAVEL REIMBURSEMENT MANUAL BEFORE COMPLETING THIS FORM

Robert J. Marks II Library Archive



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
 EXPENSE REPORT FOR PERIOD ENDING

May 21, 1992

TRAVELING IN CAPACITY OF (CHECK ONE)

(NAME)
 Robert J. Marks II
 (ADDRESS TO SEND CHECK)
 Elec. Engr. - FT-10
 University of Washington
 Seattle, WA 98195

- MEMBER OF IEEE STAFF _____ (Dept.)
- MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
- IEEE REGIONAL DIRECTOR
- IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE
 Technical Meetings Council
 (Name of Board or Committee)

TRIP AUTHORIZATION NO. _____

PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY

Travel

Technical Meetings Council meeting

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

DETAILS	DATE	5/14/92	5/15							TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)
	TOWN	Seattle Newark	Piscataway Seattle								
PERSNL. AUTO MILEAGE											
TRANSPORTATION TOLLS - PARKING											
MILEAGE ALLOWANCE											
TAXI - BUS SEE REVERSE SIDE (1)		23 00	23 00							46 00	
PLANE - TRAIN - AUTO RENTAL		472 00								472 00	
LODGING/SELF		104 86								104 86	
MEALS/SELF SEE REVERSE SIDE (2)											
OFFICIAL GUEST SEE REVERSE SIDE (3)											
MISCELLANEOUS TEL. & TEL.											
TIPS - GRATUITIES											
OTHER (4)											
TOTAL EXPENSE		599 86	23 00							622 86	

PROVIDE DETAILS BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

LESS CHARGED DIRECT TO IEEE

LESS ADVANCE FROM IEEE

BALANCE DUE FROM (TO) IEEE

622 86

ACCOUNT NO.

AMOUNT

SIGNATURE

DATE

APPROVAL

DATE

APPROVAL

DATE

\$

AMOUNT OF CHECK

BELOW FOR ACCOUNTING DEPT. USE ONLY

DISTRIBUTED BY

APPROVED BY

VOUCHER NO.

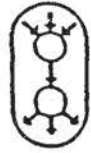
VENDOR NO.

PAY WEEK

MOVE CODE



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

May 12, 1992

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

Please request a \$500 advance for travel to the NNC meetings to be held in Baltimore starting June 6. Please have the check sent to me at my University address. Thank you.

Sincerely,

Robert J. Marks II, Past President
Neural Networks Council

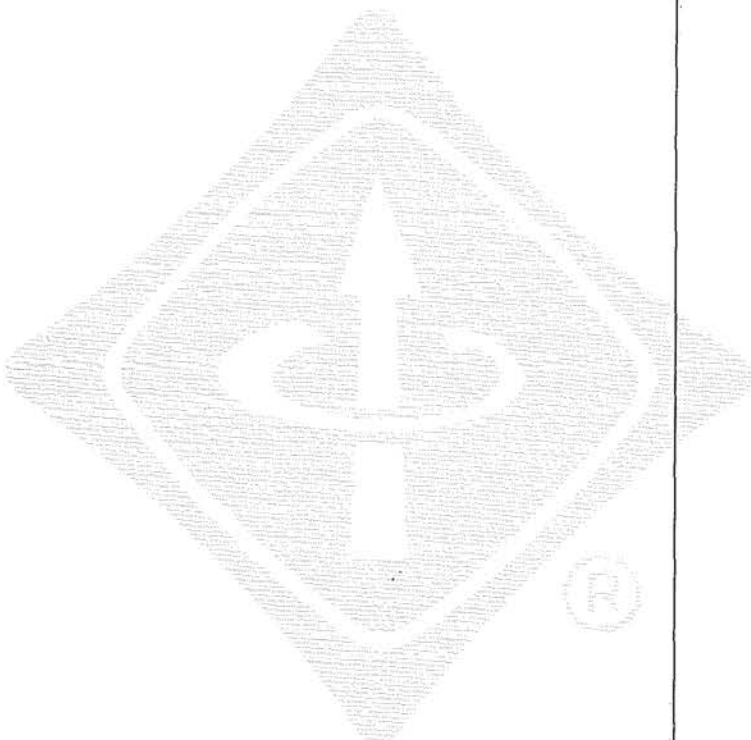
SS# [REDACTED]
IEEE # 6402291

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

009533

24-APR-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
12-MAR-92	12-MAR-92	EXPENSE REPORT FOR PERIOD ENDING 3/12/92	.00	132.57
			\$.00	\$ 132.57

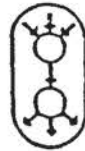


PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

3/26

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

Enclosed is my expense report for AdCom and other meetings held in San Diego. Please request that a check be issued to me and sent to the University address.

Sincerely,

A handwritten signature in black ink, appearing to be 'RJM' with a flourish.

Robert J. Marks II, Past President
Neural Networks Council

SS# [REDACTED]
IEEE# 6402291

Enclosure



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. EXPENSE REPORT FOR PERIOD ENDING

3/25 19 92

TRAVELING IN CAPACITY OF (CHECK ONE)

1992 IEEE Neural Networks Council Document
READ INSTRUCTIONS ON REVERSE SIDE OF YELLOW COPY AND REFER TO
Robert J. Marks II Library Archive
IEEE TRAVEL REIMBURSEMENT MANUAL BEFORE COMPLETING THIS FORM

(NAME) Robert J. Marks II
(ADDRESS TO SEND CHECK) Dept of EE - FI-10
University of Washington
Seattle, WA 98195

- MEMBER OF IEEE STAFF
MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
IEEE REGIONAL DIRECTOR
IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE
Neural Networks Council - Past President
(Name of Board or Committee)

TRIP AUTHORIZATION NO.

PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

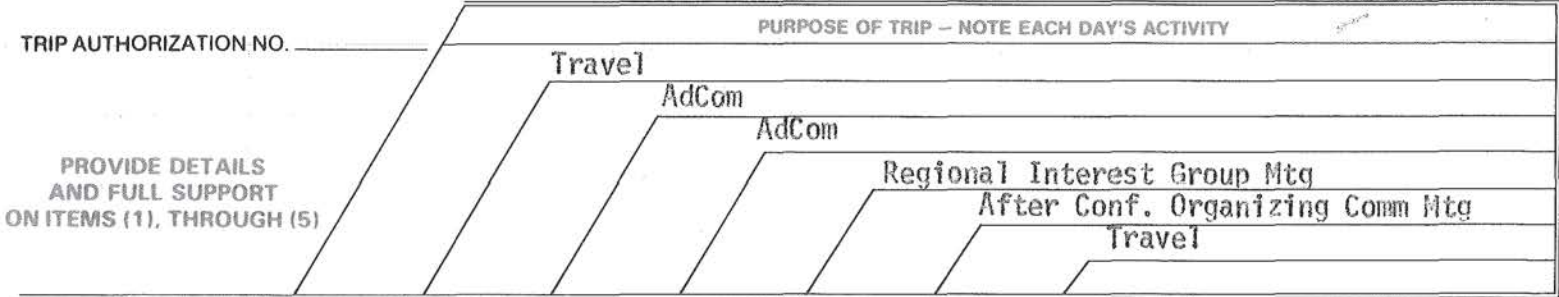


Table with columns: DETAILS, DATE, TOWN, 3/7/92, 3/8, 3/9, 3/10, 3/11, 3/12, TOTAL EXPENSE, CHARGED DIRECT TO IEEE (5). Rows include PERSNL. AUTO MILEAGE, TRANSPORTATION TOLLS, MILEAGE ALLOWANCE, TAXI, PLANE, LODGING, MEALS, OFFICIAL GUEST, MISCELLANEOUS, TIPS, OTHER, and TOTAL EXPENSE.

PROVIDE DETAILS BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

LESS CHARGED DIRECT TO IEEE

LESS ADVANCE FROM IEEE

BALANCE DUE FROM (TO) IEEE

500 00

132 57

ACCOUNT NO.

AMOUNT

SIGNATURE

DATE

3/25/92

APPROVAL

DATE

APPROVAL

DATE

\$

AMOUNT OF CHECK

BELOW FOR ACCOUNTING DEPT. USE ONLY

DISTRIBUTED BY

APPROVED BY

VOUCHER NO

VENDOR NO.

PAY WEEK

MOVE CODE

Robert J. Marks
 pg 1 of 7

ISSUER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS CONTAINED IN THIS TICKET (CONJUNCTION TICKETS)

UNITED AIR LINES INC.

ARC PASSENGER COUPON
 DATE OF ISSUE: 24 FEB 92

BOOKING REFERENCE: DEJESU/15
 ISSUED IN EXCHANGE FOR: SEATTLE 50 59224-2/

ISSUED BY: J. D. COOK TRAVEL
 PSOR CPTA 2773

ISSUER NAME: MARKS/ROBERT
 NOT TRANSFERABLE

NO.	FROM	NOT GOOD FOR PASSAGE	CARRIER	FLIGHT	CLASS	DATE	TIME	STATUS	FARE BASIS/TKT. DESIGNATOR	NOT VALID BEFORE	NOT VALID AFTER	ALLOW
1	SEATTLE		UA	1515	Q	07MAR	1130A	OK	QCAWA7		31JAN	
2	SAN DIEGO CA		AS	221	Q	12MAR	630P	OK	QDQWA7		31JAN	
3	SEATTLE											
4	VOID											
5	VOID											

FARE CALCULATION: USD 234.51 7MAR92 SEA UA SAN117.27AS SEA117.27USD234.54END

FORM OF PAYMENT: AX3787 434912 52005 EXP 1092

TOTAL: USD 258.00

0055/ LA-LA 016 770-1191529 3 □ 0162 10

05500193395 UNIVOFWA

DO NOT MARK OR WRITE IN THE WHITE AREA ABOVE

Robert Marks
pg 2 of 7

Snyder, Mutter, Trveblood,
Simpson, Fukuda's Rep,
Lendaris, Marks
(Sunday, Lunch)

THE GOURMET ROOM
500 HOTEL CIRCLE NORTH
SAN DIEGO, CA 92108
(619) 291-7131
THANK YOU
COME AGAIN

MERCHANT : 322465253064 0015
 BATCH NO. : 413
 REF NO. : 005
 DATE : 03/08/92 12:42
 CUSTOMER : ROBERT MARKS
 ACCT NO. : 6011009675000042
 TYPE : DISCOVER 09/92
 AUTH NO. : 000050
 SERVER : 0001

PURCHASE \$ 127.85

TIP \$ ~~10.15~~

TOTAL \$ ~~114.60~~

X  SIGNATURE

I AGREE TO PAY ABOVE TOTAL AMOUNT
 ACCORDING TO CARD ISSUER AGREEMENT
 (MERCHANT AGREEMENT IF CREDIT VOUCHER)

125.14	127.85
20.86 marks	18.26
146.00	109.59

AD COM
Lunch

Robert J Marks
Pg 3 of 7

divided by 4 = \$16.80

006007152991

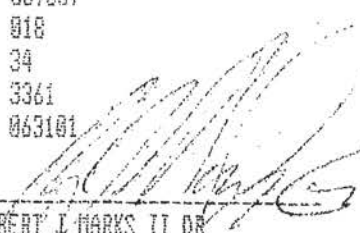
PREGO 6414
1370 FRAZEE RD
SAN DIEGO, CA 92106

TIME 08:06 PM DATE 03/09/92
ACCT# 4842030811645317
EXP DATE 9208
AMOUNT \$60.18

TIP AMOUNT 7.00

TOTAL AMOUNT 67.18

TRAN TYPE SALE
AUTH CODE 009009
RECORD # 018
SERVER ID 34
TICKET # 3361
TERMINAL # 063101

SIGNATURE X 

ROBERT J. MARKS II OR
I AGREE TO PAY ABOVE TOTAL AMOUNT
ACCORDING TO CARD ISSUER AGREEMENT
THANK YOU
COME AGAIN!

1/4 of this
is mine
(Personal Dining)
Food

Robert J Marks
Pg 4 of 7

~~64.88~~
~~16.23~~ *Marks*
~~81.11~~

73.11
14.62
58.49

THE GOURMET ROOM
500 HOTEL CIRCLE NORTH
SAN DIEGO, CA 92108
(619) 291-7131
THANK YOU
COME AGAIN

MERCHANT : 322465253064 0015
BATCH NO. : 415
REF NO. : 013
DATE : 03/10/92 13:19
CUSTOMER : ROBERT MARKS
RECT NO. : 6011009675000043
TYPE : DISCOVER 09/92
AUTH NO. : 010962
SERVER : 0001

PURCHASE \$ 73.11

TIP \$ 8.00

TOTAL \$ 81.11

Robert J. Marks
SIGNATURE

I AGREE TO PAY ABOVE TOTAL AMOUNT
ACCORDING TO CARD ISSUER AGREEMENT
(MERCHANT AGREEMENT IF CREDIT VOUCHER)

First RIG (Regional Interest Group)
Meeting

R. Alan (Chair)

T. Caudell (Boeing)
J. Choi (Boeing)
J. Chen (Texas A&M)
Marks (U.W.)

Robert J. Marks
pg. 5 of 7

Guest Check

TABLE NO.	NO. PERSONS	CHECK NO.	SERVER NO.
		238863	
		Star of India Restaurant 1025 Prospect Street, #100 La Jolla, CA 92037-4247	
		TAX	
THANK YOU!		32 ¹⁰	

Dinner:
32¹⁰
on Wed PM
3/14/92

508 MARKS
1131 199TH ST, SW #N
LYNNWOOD WA 98036-7138

Robert J. Marks II Library Archive

50441 (2224)

lcs

WE APPRECIATE YOUR PATRONAGE AND TRUST YOU FOUND OUR SERVICE SATISFACTORY.
U/WA - DEPT / Check-in time is 3 p.m. and check out time is 12 noon.

IN

ACTIVITY DATE	CHARGE CODE	DESCRIPTION	CHARGES	CREDITS
03-07-92	R#2224	ROOM CHARGES	89.00	
03-07-92	RT2224	ROOM TAX	8.01	
03-08-92	R#2224	ROOM CHARGES	89.00	
03-08-92	RT2224	ROOM TAX	8.01	
03-09-92	R#2224	ROOM CHARGES	89.00	
03-09-92	RT2224	ROOM TAX	8.01	
03-10-92	R#2224	ROOM CHARGES	89.00	
03-10-92	RT2224	ROOM TAX	8.01	
03-10-92	SP12.1	SPECTRAVISION	7.95	
	MT12.1	SPECTRAVISION TAX	.72	
	RS469912	ROOM SERVICE ★	12.64	
	R#2224	ROOM CHARGES	89.00	
	RT2224	ROOM TAX	8.01	
	RS417870	ROOM SERVICE ★	8.70	
	LD 613A	LONG DISTANCE 908-562-3946 ★	3.73	
	DSPAID-	PAID - DISCOVER CARD		83.74

x J Marks
7 of 7

DIRECT BILL ACCOUNT - CODE (FUZZY.)

OTHER ATLAS HOTEL
IN SAN DIEGO: HAN/
TOW:
IN LOS ANGELES: C
IN RIDGECREST, CA:
IN SCOTTSDALE, AF
IN BLAINE, WASHIN:

I AGREE TO PAY ABOVE TOTAL AMOUNT
ACCORDING TO CARD ISSUER AGREEMENT
(MERCHANT AGREEMENT IF CREDIT YOURS)

[Signature]
SIGNATURE

PURCHASE \$ 33.74

MERCHANT : 32245233884 0987
BATCH NO. : 599
REF NO. : 001
DATE : 03/12/92 14:35
CUSTOMER : ROBERT MARKS
ACCT NO. : 6011092675000543
TYPE : DISCOVER 03/92
AUTH NO. : 012433

TOWN & COUNTRY HOTEL
508 HOTEL CIRCLE NORTH
SAN DIEGO, CA 92103
(619) 291-7131

50441
[Signature]

DUE

Robert J. Marks
Pg. 7 of 7

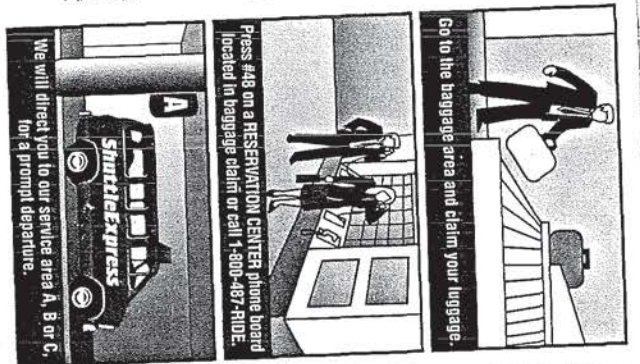
HOST
INTERNATIONAL
EAST TERMINAL

CAFETERIA

Thursday A.M.

THU 03-12-92 20:30

16oz HOT	1.29T
APPLE	0.79T
SUB TTL	2.08
CASH	2.24
TAX	0.16
TOTAL	2.24



+ \$ 2 TIP
 (ea
 (x 2 ways = \$46)



IEEE

1992 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive
READ INSTRUCTIONS ON REVERSE SIDE OF FORM AND RETURN TO IEEE TRAVEL REIMBURSEMENT MAIL BEFORE COMPLETING THIS FORM

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
EXPENSE REPORT FOR PERIOD ENDING 3/25 19 92

TRAVELING IN CAPACITY OF (CHECK ONE)

(NAME)
Robert J. Marks II
(ADDRESS TO SEND CHECK)
Dept of EE - FT-10
University of Washington
Seattle, WA 98195

- MEMBER OF IEEE STAFF _____ (Dept.)
- MEMBER OF IEEE BD. OF DIRECTORS/EXECUTIVE COMM.
- IEEE REGIONAL DIRECTOR
- IEEE STANDING BOARD OR COMMITTEE REPRESENTATIVE
Neural Networks Council - Past President
(Name of Board or Committee)

TRIP AUTHORIZATION NO. _____

PURPOSE OF TRIP - NOTE EACH DAY'S ACTIVITY

PROVIDE DETAILS AND FULL SUPPORT ON ITEMS (1), THROUGH (5)

Travel

AdCom

AdCom

Regional Interest Group Mtg

After Conf. Organizing Comm Mtg

Travel

DETAILS	DATE	3/7/92	3/8	3/9	3/10	3/11	3/12	TOTAL EXPENSE	CHARGED DIRECT TO IEEE (5)
	TOWN	Seattle/San Diego	San D	San D	San D	San D	San Diego/Seattle		
PERSNL. AUTO MILEAGE									
TRANSPORTATION TOLLS - PARKING									
MILEAGE ALLOWANCE									
TAXI - BUS SEE REVERSE SIDE (1)									
PLANE - TRAIN - AUTO RENTAL -		21 00					21 00	42 00	
LODGING/SELF		258 00						258 00	
MEALS/SELF SEE REVERSE SIDE (2)			25 56	25 05	24 32	44 74	10 94	130 61	
OFFICIAL GUEST SEE REVERSE SIDE (3)			109 59		58 49			168 08	
MISCELLANEOUS TEL. & TEL.							3 73	3 73	
TIPS - GRATUITIES		2 00	18 15		8 00		2 00	30 15	
OTHER (4)									
TOTAL EXPENSE		281 00	153 30	25 05	90 81	44 74	37 67	632 57	

PROVIDE DETAILS BELOW AND ATTACH FULL SUPPORT ON ITEMS (4) AND (5).

LESS CHARGED DIRECT TO IEEE

LESS ADVANCE FROM IEEE

BALANCE DUE FROM (TO) IEEE

500 00

132 57

ACCOUNT NO.

AMOUNT

SIGNATURE

DATE

APPROVAL

DATE

APPROVAL

DATE

\$

AMOUNT OF CHECK

BELOW FOR ACCOUNTING DEPT. USE ONLY

DISTRIBUTED BY

APPROVED BY

VOUCHER NO

VENDOR NO.

PAY WEEK

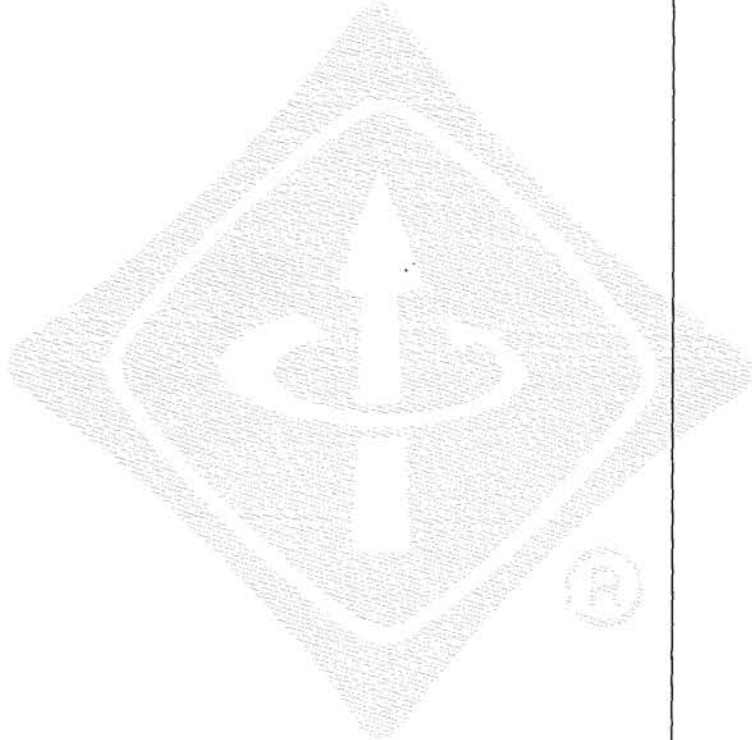
MOVE CODE

file 007641

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

27-MAR-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
19-JAN-92	19-JAN-92	EXPENSE REPORT FOR PERIOD ENDING 19-JAN-92 <i>Raleigh</i>	.00	838.47
Advance	16-MAR-92	Advance <i>Atlanta</i>	.00	500.00
			\$.00	\$1,338.47



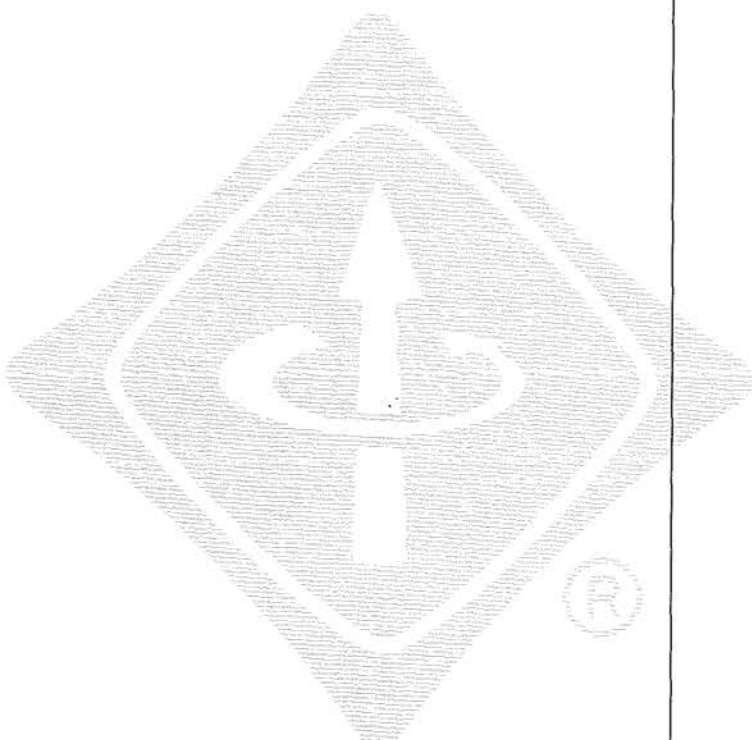
PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

005519

21-FEB-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

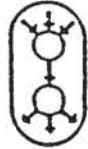
INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
Advance	11-FEB-92	Advance NMC Ad Co	.00	500.00
			\$.00	\$ 500.00

PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

2/14/92

Roy S. Nutter, Jr., Treasurer
IEEE Neural Networks Council
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

I hereby request an advance of \$500 for my upcoming trip to the NNC AdCom meeting in San Diego March 7. Please have the check sent to me at the University of WA address.

Sincerely,

A handwritten signature in cursive script, appearing to read 'RJM'.

Robert J. Marks II
Past President

SSN # [REDACTED]

IEEE #6402291

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

Mail for Ruth Wagner

1

Mon, 20 Jan 92 17:43:27 -0800

From marks@u.washington.edu Mon Jan 20 17:43:45 1992
From: Robert Marks <marks@u.washington.edu>
To: rce@rti.rti.org
Cc: marks@milton.u.washington.edu, rsn@a.coe.wvu.wvnet.edu,
wagner@essex.ee.washington.edu
Subject: \$
Date: Mon, 20 Jan 92 17:43:27 -0800

Russ,

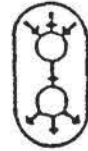
I hereby request that the Council support my expenses for travel to AdCom and related meetings to be held in conjunction with FUZZ-IEEE '92. I furthermore request an advance of \$500 for these expenses.

Sincerely,

```
*****  
****  
**** Robert J. Marks II, Editor-in-Chief ****  
**** IEEE Transactions on Neural Networks ****  
**** University of Washington ****  
**** Department of Electrical Engineering ****  
**** c/o 1131 199th Street S.W., Suite N ****  
**** Lynnwood, WA 98036-7138 ****  
**** 206 543 6990 ****  
**** FAX 206 543 3842 ****  
**** marks@milton.u.washington.edu ****  
****  
*****
```



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

February 15, 1992

Dr. Roy S. Nutter, Jr., Treasurer
IEEE Neural Networks Council
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

Dear Roy,

Enclosed are receipts for phone calls made in conjunction with my duties as the Council's Past President. The larger AT&T bill is for an ExCom teleconference.

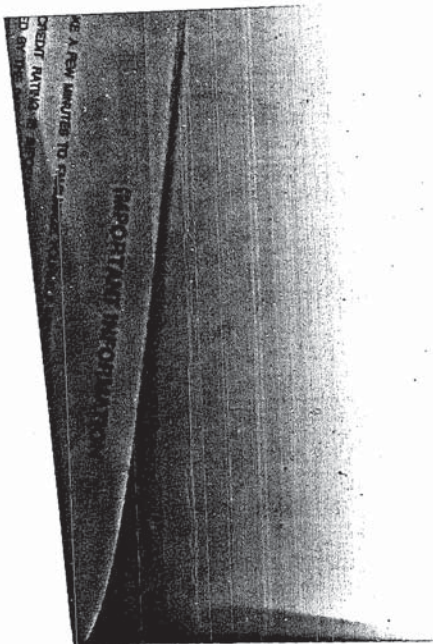
AT&T total (including tax)	\$286.24
MCI total	<u>\$ 30.08</u>
total	\$316.32

Please remit a check from Council funds to me for this ammount at the above address.

Sincerely,

Robert J. Marks II, Past President
IEEE Neural Networks Council

SS# [REDACTED]
IEEE# 6402291



ACCOUNT F9262155 INVOICE 89117891 CYCLE 16 JANUARY 13, 1992 7 47201RES

* * PLEASE RETURN THIS FORM WITH REMITTANCE * *

MAKE CHECK OR MONEY ORDER PAYABLE TO "MCI TELECOMMUNICATIONS"
PLEASE CALL CUSTOMER SERVICE FOR ANY PHONE NO. OR ADDRESS CHANGES: 1-800-444-3333

CURRENT CHARGES	\$30.08
PREVIOUS BALANCE (DISREGARD IF PAID)	\$10.89
	=====
PLEASE REMIT PAYMENT IMMEDIATELY	\$40.97

AMOUNT ENCLOSED \$ _____

602167 15090206020105052 691178913 \$40.97 01/13/92
REMIT TO:

60216715090206020105052691178913000004097

MCI TELECOMMUNICATIONS
RESIDENTIAL SERVICE- W
POST OFFICE BOX 52211
PHOENIX, AZ 85072-2211

BOB & CONNIE MARKS

MCI
MCI

GTE Northwest Incorporated

BILLING FOR
AT&T

PAGE 4

BILLING QUESTIONS CALL
FEB 10 1992

1 800 222-0300
206-776-8995

DR ROBT II & MONICA MARKS



TO ORDER AT&T CARDS, INTERSTATE WATS SERVICE,
REACH OUTSM AMERICA OR OTHER AT&T LONG DISTANCE
SERVICE:

BUSINESS ACCOUNTS CALL 1 800 222-0400
RESIDENCE ACCOUNTS CALL 1 800 222-0300

AT&T NEW CHARGES

DATE	CALLS TO	TELEPHONE #	MIN	CPT	FROM	TIME	
DEC27		000-000-0000	108	371		1200PM	252.89
DEC27	CARY NC	919-481-4269		1		1200AM	.00
DEC27	CHATNOOTN	615-886-7710		1		1200AM	.00
DEC27	MORGANTOWY	304-599-8838		1		1200AM	.00
DEC27	DUNELLENNJ	908-562-3850		1		1200AM	.00
		SUBTOTAL					268.49

J AFTER ANALYZING YOUR LONG DISTANCE CALLS THIS MONTH,
WE FIND YOU COULD HAVE SAVED MONEY WITH THE AT&T
REACH OUT AMERICA LONG DISTANCE CALLING PLAN. FOR
7.80 A MONTH, YOU GET AN HOUR OF WEEKEND AND NIGHT
DIRECT-DIALED AT&T OUT-OF-STATE CALLING PLUS A 15%
DISCOUNT OFF YOUR DIRECT-DIALED AT&T OUT-OF-STATE
EVENING CALLS. FOR FURTHER INFORMATION, CALL 1 800
REACH OUT, EXT. 7309.

TOTAL LONG DISTANCE CHARGES 268.49

3.00% FEDERAL EXCISE TAX ON 268.49 8.05
8.20% WASHINGTON STATE SALES TAX ON 268.49 22.02

AT&T NEW CHARGES 298.56

10 30270 7768995 890104 00004379 00038718 3RDA 00000 00166650



23-MAR-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
EXPENSE	06-MAR-92	EXPENSE REIMBUTDRMRNT	.00	316.32
			\$.00	\$ 316.32

PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

IEEE

345 East 47th Street
New York, N.Y. 10017-2394, U.S.A.

VOID ONE YEAR FROM DATE

FIRST FIDELITY BANK 55 - 2
EXECUTIVE OFFICE 212
NEWARK, NEW JERSEY 07192

CHECK DATE	CHECK NUMBER	CHECK AMOUNT
23-MAR-92	7334	\$316.32

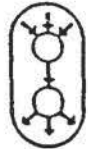
Three Hundred Sixteen Dollars and 32 Cents*****

PAY TO THE ORDER OF

Marks, Robert J II
Univ Washington Dept EE FT-10
Seattle WA 98195



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

February 27, 1992

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

Please request a \$500 advance for travel to the TAB meeting in Atlanta, April 2-5. Please have the check sent to me at my University address. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bob Marks'.

Robert J. Marks II, Past President
Neural Networks Council

SS# [REDACTED]
IEEE# 6402291

Robert J. Marks II Library Archive

000095

17-JAN-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
36	02-JAN-92	Expense Reimbursement Dinner & Meetings IJCNN 91	.00	310.69

\$.00 \$310.69

PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

IEEE

345 East 47th Street New York, N.Y. 10017-2394, U.S.A.

VOID ONE YEAR FROM DATE

FIRST FIDELITY BANK EXECUTIVE OFFICE NEWARK, NEW JERSEY 07192 55-2 212

CHECK DATE	CHECK NUMBER	CHECK AMOUNT
17-JAN-92	95	\$310.69

Three Hundred Ten Dollars and 69 Cents*****

PAY TO THE ORDER OF

Marks, Robert J II Univ Washington Dept EE FT-10 Seattle WA 98195

Michael J. ...

Mail for Ruth Wagner

1

Mon, 27 Jan 92 18:52:59 -0800

From marks@u.washington.edu Mon Jan 27 18:52:59 1992
From: Robert Marks <marks@u.washington.edu>
To: wagner@essex.ce.washington.edu
Cc: marks@milton.u.washington.edu
Subject: FYI
Date: Mon, 27 Jan 92 18:52:59 -0800

From rsu@ece.wvu.wvnet.edu Mon Jan 27 11:36:36 1992
Received: from blake.u.washington.edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA26562; Mon, 27 Jan 92 11:36:22
-0800
Received: from cpe05.ece.wvu.wvnet.edu by blake.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA28280; Mon, 27 Jan 92 11:35:39
-0800
Received: from cpe15.ece.wvu.wvnet.edu by ece.wvu.wvnet.edu (4.1/SMI-4.0
:RAL-041790)
id AA03508; Mon, 27 Jan 92 14:45:23 EST
From: rsu@ece.wvu.wvnet.edu (Roy S Nutter)
Message-Id: <9201271945.AA03508@ece.wvu.wvnet.edu>
Subject: Need SSN
To: marks@blake.u.washington.edu
Date: Mon, 27 Jan 92 14:34:19 EDT
Cc: rce@rti.rti.org, xm8@sdcc12.ucsd.edu, d43131a@nucc.nagoya-u.ac.jp
X-Mailer: ELM [version 2.2 PL16]
Status: 0

Bob:

In order to process the request approved by Russ for travel advance, the
IEEE now needs a social Security Number and your IEEE number. Please sen
d
to me.

Thanks...Roy Nutter
IEEE NNC Treasurer

PS: YOU should be aware that the IEEE effective January 1, 1992 reequir
es
ALL advances to be repaid to IEEE within 120 days or the IRS will consid
er
it your personal income (apparently whether it really is or not!). Irv h
as
protested vigorously but the ruleing stands. I guess this will ultimatel
Y
cost the IEEE and NNC money because we will not be able to buy air ticke
ts
as far in advvance using IEEE money.

PSS: All communication through me in the future MUST contain IEEE member
numbers to enable payment to occur. (For advances to be issued, SSN's
will be required as well.

From marks@u.washington.edu Mon Jan 27 18:51:37 1992
Received: from blake.u.washington.edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA22796; Mon, 27 Jan 92 18:51:05

000651

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

28-JAN-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
1068---88	20-JAN-92	Expense reimbursement- trans N N	.00	216.33
6-NOV-91	26-NOV-91	Expense Report for Period Ending 26-Nov-91	.00	757.23
			\$.00	\$ 973.56

PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You

Mail for Ruth Wagner

1

Mon, 27 Jan 92 18:52:59 -0800

From marks@u.washington.edu Mon Jan 27 18:52:59 1992
From: Robert Marks <marks@u.washington.edu>
To: wagner@essex.ce.washington.edu
Cc: marks@milton.u.washington.edu
Subject: FYI
Date: Mon, 27 Jan 92 18:52:59 -0800

From rsn@ece.wvu.wvnet.edu Mon Jan 27 11:36:36 1992
Received: from blake.u.washington.edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA26562; Mon, 27 Jan 92 11:36:22
-0800
Received: from cpe05.ece.wvu.wvnet.edu by blake.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA28280; Mon, 27 Jan 92 11:35:39
-0800
Received: from cpe15.ece.wvu.wvnet.edu by ece.wvu.wvnet.edu (4.1/SMI-4.0
:RAL-041790)
id AA03508; Mon, 27 Jan 92 14:45:23 EST
From: rsn@ece.wvu.wvnet.edu (Roy S Nutter)
Message-Id: <9201271945.AA03508@ece.wvu.wvnet.edu>
Subject: Need SSN
To: marks@blake.u.washington.edu
Date: Mon, 27 Jan 92 14:34:19 EDT
Cc: rce@rti.rti.org, xm8@sdoc12.ucsd.edu, d43131a@nucc.nagoya-u.ac.jp
X-Mailer: ELM [version 2.2 PL16]
Status: 0

Bob:

In order to process the request approved by Russ for travel advance, the
IEEE now needs a social Security Number and your IEEE number. Please sen
d
to me.

Thanks...Roy Nutter
IEEE NNC Treasurer

PS: YOU should be aware that the IEEE effective January 1, 1992 reequir
es
er
as
Y
ts
ALL advances to be repaid to IEEE within 120 days or the IRS will consid
it your personal income (apparently whether it really is or not!). Irv h
protested vigorously but the ruleing stands. I guess this will ultimatel
cost the IEEE and NNC money because we will not be able to buy air ticke
as far in advvance using IEEE money.

PSS: All communication through me in the future MUST contain IEEE member
numbers to enable payment to occur. (For advances to be issued, SSN's
will be required as well.

From marks@u.washington.edu Mon Jan 27 18:51:37 1992
Received: from blake.u.washington.edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA22796; Mon, 27 Jan 92 18:51:05

Mail for Ruth Wagner

2

Mon, 27 Jan 92 18:52:59 -0800

-0800

Received: from milton.u.washington.edu by blake.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA07956; Mon, 27 Jan 92 18:51:01

-0800

Received: by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA22739; Mon, 27 Jan 92 18:50:56

-0800

Date: Mon, 27 Jan 92 18:50:56 -0800
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9201280250.AA22739@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: marks@blake.u.washington.edu, rsn@ece.wvu.wvnet.edu
Subject: Re: Need SSN

SSN # [REDACTED]
IEEE # 6402291

Bob Marks

IEEE 345 East 47th Street, New York, N.Y. 10017-2394, U.S.A.

007334

23-MAR-92 CUST. ACCT. NO. VENDOR NAME Marks, Robert J II VENDOR NO. 06402291

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMOUNT	NET AMOUNT
EXPENSE	06-MAR-92	EXPENSE REIMBUTDRMRNT <i>phone calls</i>	.00	316.32
			\$.00	\$ 316.32

PLEASE DETACH AND RETAIN THIS STATEMENT AS YOUR RECORD OF PAYMENT

Thank You

Mail for Ruth Wagner

1

Mon, 27 Jan 92 18:52:59 -0800

From marks@u.washington.edu Mon Jan 27 18:52:59 1992

From: Robert Marks <marks@u.washington.edu>

To: wagner@essex.ee.washington.edu

Cc: marks@milton.u.washington.edu

Subject: FYI

Date: Mon, 27 Jan 92 18:52:59 -0800

From rsn@ece.wvu.wvnet.edu Mon Jan 27 11:36:36 1992

Received: from blake.u.washington.edu by milton.u.washington.edu

(5.65/UW-NDC Revision: 2.1) id AA26562; Mon, 27 Jan 92 11:36:22

-0800

Received: from cpe05.ece.wvu.wvnet.edu by blake.u.washington.edu

(5.65/UW-NDC Revision: 2.1) id AA28280; Mon, 27 Jan 92 11:35:39

-0800

Received: from cpe15.ece.wvu.wvnet.edu by ece.wvu.wvnet.edu (4.1/SMI-4.0

:RAL-041790)

id AA03508; Mon, 27 Jan 92 14:45:23 EST

From: rsn@ece.wvu.wvnet.edu (Roy S Nutter)

Message-Id: <9201271945.AA03508@ece.wvu.wvnet.edu>

Subject: Need SSN

To: marks@blake.u.washington.edu

Date: Mon, 27 Jan 92 14:34:19 EDT

Cc: rce@rti.rti.org, xm8@sdcc12.ucsd.edu, d43131a@nucc.nagoya-u.ac.jp

X-Mailer: ELM [version 2.2 PL16]

Status: 0

Bob:

In order to process the request approved by Russ for travel advance, the IEEE now needs a social Security Number and your IEEE number. Please send

d

to me.

Thanks...Roy Nutter
IEEE NNC Treasurer

PS: YOU should be aware that the IEEE effective January 1, 1992 requires ALL advances to be repaid to IEEE within 120 days or the IRS will consider it your personal income (apparently whether it really is or not!). Irv has protested vigorously but the ruling stands. I guess this will ultimately cost the IEEE and NNC money because we will not be able to buy air tickets as far in advance using IEEE money.

PSS: All communication through me in the future MUST contain IEEE member numbers to enable payment to occur. (For advances to be issued, SSN's will be required as well.)

From marks@u.washington.edu Mon Jan 27 18:51:37 1992

Received: from blake.u.washington.edu by milton.u.washington.edu

(5.65/UW-NDC Revision: 2.1) id AA22796; Mon, 27 Jan 92 18:51:05

Mail for Ruth Wagner

2

Mon, 27 Jan 92 18:52:59 -0800

-0800

Received: from milton.u.washington.edu by blake.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA07956; Mon, 27 Jan 92 18:51:01

-0800

Received: by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA22739; Mon, 27 Jan 92 18:50:56

-0800

Date: Mon, 27 Jan 92 18:50:56 -0800
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9201280250.AA22739@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: marks@blake.u.washington.edu, rsn@ece.wvu.wvnet.edu
Subject: Re: Need SSN

SSN # [REDACTED]
IEEE # 6402291

Bob Marks

file



IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

February 11, 1992 (908) 562- 3861

Professor Robert J. Marks, II
Interactive Systems Design Lab.
Dept. EE FT-10
University of Washington
Seattle, WA 98195

Dear Professor Marks:

At the request of Roy Nutter, under separate cover, we will be sending you a check in the amount of \$500.00 as an advance for expenses on behalf of the IEEE Neural Networks Council.

IMPORTANT NEW REGULATION

Effective November 1, 1991, the Internal Revenue Service (IRS) has issued a new directive on advances received by individuals. It is now mandatory that any advance you receive must have all expenses reported within 120 days. Any funds which are not spent and that are not returned now must be reported to the IRS as income to you.

We ask your cooperation in handling this restrictive ruling. Prompt reports submitted to us, with appropriate original receipts and balances, will allow us all to comply with these new IRS regulations.

Sincerely yours

Marilyn Prusan

Marilyn Prusan
Finance Administrator
Technical Activities

CC Roy Nutter



Handwritten initials, possibly 'RJM', in the top right corner of the page.

IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

March 17, 1992

(908) 562- 3861

Professor Robert J. Marks
Univ. Washington
Dept. of EE FT-10
Interactive Systems Design Lab
Seattle, WA 98195

Dear Professor Marks:

At the request of Dr. Roy Nutter, under separate cover, we will be sending you a check in the amount of \$500.00 as an advance for expenses on behalf of the IEEE Neural Networks Council.

IMPORTANT NEW REGULATION

Effective November 1, 1991, the Internal Revenue Service (IRS) has issued a new directive on advances received by individuals. It is now mandatory that any advance you receive must have all expenses reported WITHIN 120 DAYS. Any funds which are not spent and that are not returned now must be reported to the IRS as income to you.

We ask your cooperation in handling this restrictive ruling. Prompt reports submitted to us, with appropriate original receipts and balances, will allow us all to comply with these new IRS regulations.

Sincerely yours

Handwritten signature of Marilyn Prusan in cursive.

Marilyn Prusan
Finance Administrator
Technical Activities

CC Roy Nutter



OCTAVO

DESIGN AND PRODUCTION

Ruth,
Mail
to Mr.
Soley

Monday, November 9, 1992

Prof. Robert Marks
Univ. of Washington
Dept. of Electrical Engineering
Seattle, WA 98195

Dear Prof. Robert Marks:

per express mail
11/16/92

Enclosed is a set of page proofs for your contribution to the *Electrical Engineering Handbook*, to be published by CRC Press.

Please proofread the pages carefully, marking any changes or corrections directly on the pages in red pen or pencil. All of your changes or corrections should be clearly legible and clearly marked for insertion into the text and should reflect how you want your contribution to read in its final form. Also, please respond to any questions that may be indicated on the pages. Where artwork has been rendered, please be sure to proofread the new figure(s). For your reference, a copy of your edited manuscript and a sheet of standard proofreading marks are also enclosed.

As you are checking your proofs, highlight or underline (in a color other than red or black pen or pencil) those key words or phrases that should appear as entries in the index. Also mark as bold face all Defining Terms the first time they appear in the text. Enclosed are some guidelines to assist you in marking index entries.

Also enclosed is a contributor information form. Please provide the information requested for yourself and any co-authors.

Corrected pages and contributor information sheets should be returned to Octavo Design and Production at the address below. To meet our publication schedule, please return your proofs within seven days. I suggest using a delivery service that allows the package to be traced (i.e., Federal Express, United Parcel Service, etc.) If possible, return for next-day or second-day delivery.

If I can be of any assistance, please do not hesitate to contact me by phone or fax. Thank you for your participation in this project.

Sincerely,

Frank M. Soley

7

67

Information Theory

New
Index
New Index

H. Vincent Poor
Princeton University
Carl G. Looney
University of Nevada
✓ R. J. Marks II
University of Washington
Joy A. Thomas
IBM
Thomas M. Cover
Stanford University

67.1	Signal Detection.....	000
	General Considerations • Detection of Known Signals • Detection of Parametrized Signals • Detection of Random Signals • Deciding among Multiple Signals • Detection of Signals in More General Noise Processes • Robust and Nonparametric Detection • Distributed and Sequential Detection • Detection with Continuous-time Measurements •	
67.2	Noise.....	000
	Statistics of Noise • Noise Power • Effect of Linear Transformation on Autocorrelation and Power Spectral Density • White, Gaussian, and Pink Noise Models • Thermal Noise as Gaussian White Noise • Some Examples • Measuring Thermal Noise • Effective Noise and Antenna Noise • Noise Factor and Noise Ratio • Equivalent Input Noise • Other Electrical Noise • Measurement and Quantization Noise • Coping with Noise •	
67.3	Stochastic Processes	000
	Introduction to Random Variables • Stochastic Processes • Classifications of Stochastic Processes • Stationarity of Processes • Gaussian and Markov Processes • Examples of Stochastic Processes • Linear Filtering of Weakly Stationary Processes • Cross-correlation of Processes • Coherence • Ergodicity	
67.4	The Sampling Theorem.....	000
	The Cardinal Series • Proof of the Sampling Theorem • The Time-Bandwidth Product • Sources of Error • Generalizations of the Sampling Theorem • Final Remarks	
67.5	Data Compression	000
	Entropy • The Huffman Algorithm • Entropy Rate • Arithmetic Coding • Lempel-Ziv Coding • Rate Distortion Theory • Quantization and Vector Quantization • Kolmogorov Complexity • Data Compression in Practice	

67.1 Signal Detection

H. Vincent Poor

The field of signal detection and estimation is concerned with the processing of information-bearing signals for the purpose of extracting the information they contain. The applications of this methodology are quite broad, ranging from areas of electrical engineering such as automatic control, digital communications, image processing, and remote sensing, into other engineering disciplines and the physical, biological, and social sciences.

There are two basic types of problems of interest in this context. *Signal detection* problems are concerned primarily with situations in which the information to be extracted from a signal is dis-

- Autocorrelation function:** A function $R_{XX}(t, t+\tau) = E[X(t)X(t+\tau)]$ that measures the degree to which $X(t)$ and $X(t+\tau)$ are correlated for any two random variables at times t and $t+\tau$.
- Sample function:** A real valued function $x(t)$ of t , where at each time t , the value $x(t)$ at the argument t was determined by the outcome of a rv $X_t = x(t)$.
- Stochastic process:** A collection of rv's $\{X_t: t \in T\}$, where T is an ordered set such as the real numbers or integers [also called a random function, $X(t)$, on the domain T].
- Time average:** Any real function $g(t)$ of time has average value g_{ave} on the interval $[a, b]$ such that the rectangular area $g_{ave}(b-a)$ is equal to the area under the curve between a and b , i.e., $g_{ave} = [1/(b-a)] \int_a^b g(t) dt$. The time average of a sample function $x(t)$ is the limit of its average value over $[0, T]$ as T goes to infinity.
- Weakly stationary:** The property of a stochastic process $X(t)$ whose mean $E[X(t)] = \mu(t)$ is a fixed constant μ over all time t , and whose autocorrelation is also independent of time in that $R_{XX}(t, t+\tau) = R_{XX}(s+t, s+t+\tau)$ for any s . Thus, $R_{XX}(t, t+\tau) = R_{XX}(0, \tau) = R_{XX}(\tau)$.

References

- J. S. Bendat, and A. G. Piersol, *Random Data: Analysis and Measurement*, 2nd Ed., New York: Wiley-Interscience, 1986.
- Robert G. Brown, *Introduction to Random Signal Analysis and Kalman Filtering*, New York: Wiley, 1983.
- William A. Gardner, *Introduction to Random Processes*, 2nd Ed., New York: McGraw-Hill, 1990.
- Peyton Z. Peebles, Jr., *Probability, Random Variables, and Random Signal Principles*, 2nd Ed., New York: McGraw-Hill, 1987.

Further Information

- The IEEE Individual Learning Package, Random Signal Analysis with Random Processes and Kalman Filtering, prepared for the IEEE by Carl G. Looney, IEEE Educational Activities Board, PO Box 1331, Piscataway, NJ 08855-1331, 1989.
- R. Iranpour, and P. Chacon, *Basic Stochastic Processes: the Mark Kac Lectures*, New York: Macmillan, 1988.
- A. Papoulis, *Probability, Random Variables, and Stochastic Processes*, 3rd Ed., New York: Macmillan, 1991.

67.4 The Sampling Theorem

R. J. Marks II

Much of that which is ordinal is modeled as analog. Most computational engines, on the other hand, are digital. Transforming from analog to digital is straightforward: we simply sample. Regaining the original signal from these samples and assessing the information lost in the sampling process are the fundamental questions addressed by the sampling theorem.

The fundamental result of the sampling theorem is, remarkably, that a bandlimited signal is uniquely specified by its sufficiently close equally spaced samples. Indeed, the sampling theorem illustrates how the original signal can be regained from knowledge of the samples and the sampling rate at which they were taken.

Popularization of the sampling theorem is credited to Shannon [1] who, in 1948, used it to show the equivalence of the information content of a bandlimited signal and a sequence of discrete numbers. Shannon was aware of the pioneering work of Whittaker [2] and Whittaker's son [3] in formulating the sampling theorem. Kotel'nikov's [4] independent discovery in the Soviet Union deserves mention. Higgins [5] credits Borel (1897) [6] with first recognizing that a signal could be recovered from its samples.

Surveys of sampling theory are in the widely cited paper of Jerri [7] and in two books by the author [8-9]. Marvasti [10] has penned a book devoted to nonuniform sampling.

The Cardinal Series

If a signal has finite energy, the minimum sampling rate is equal to two samples per period of the highest frequency component of the signal. Specifically, if the highest frequency component of the signal is B Hz, then the signal, $x(t)$, can be recovered from the samples by

$$x(t) = \frac{1}{\pi} \sum_{n=-\infty}^{\infty} x\left(\frac{n}{2B}\right) \frac{\sin[\pi(2Bt - n)]}{2Bt - n} \quad (67.66)$$

The frequency B is also referred to as the signal's bandwidth and, if B is finite, $x(t)$ is said to be bandlimited. The signal, $x(t)$, is here being sampled at a rate of $2B$ samples per second. If sampling were done at a lower rate, the replications would overlap and the information about $X(\omega)$ [and thus $x(t)$] is irretrievably lost. Undersampling results in aliased data. The minimum sampling rate at which aliasing does not occur is referred to as the Nyquist rate which, in our example, is $2B$. Eq. (67.66) was dubbed the cardinal series by the junior Whittaker [3].

A signal is bandlimited in the low pass sense if there is a $B > 0$ such that

$$X(\omega) = X(\omega) \Pi\left(\frac{\omega}{4\pi B}\right) \quad (67.67)$$

where the gate function $\Pi(\xi)$ is one for $\xi \leq 1/2$ and is otherwise zero, and

$$X(\omega) = \int_{-\infty}^{\infty} x(t) e^{-j\omega t} dt \quad (67.68)$$

is the Fourier transform of $x(t)$. That is, the spectrum is identically zero for $|\omega| > 2\pi B$. The B parameter is referred to as the signal's bandwidth. The inverse Fourier transform is

$$x(t) = \frac{1}{2\pi} \int_{-\infty}^{\infty} X(\omega) e^{j\omega t} d\omega \quad (67.69)$$

The sampling theorem reduces the normally continuum infinity of ordered pairs required to specify a function to a countable—although still infinite—set. Remarkably, these elements are obtained directly by sampling.

How can the cardinal series interpolate uniquely the bandlimited signal from which the samples were taken? Could not the same samples be generated from another bandlimited signal? The answer is no. Bandlimited functions are smooth. Any behavior deviating from smooth would result in high frequency components which in turn invalidate the required property of being bandlimited. The smoothness of the signal between samples precludes arbitrary variation of the signal there.

Let's examine the cardinal series more closely. Evaluation of Eq. (67.74) at $t = m/2B$. Since $\text{sinc}(n)$ is one for $n=0$ and is otherwise zero, only the sample at $t=m/2B$ contributes to the interpolation at that point. This is illustrated in Fig. 67.11, where the reconstruction of a signal from its samples using the cardinal series is shown. The value of $x(t)$ at a point other than a sample location [e.g., $t = (m + 1/2)/2B$] is determined by all of the sample values.

Proof of the Sampling Theorem

Borel [6] and Shannon [1] both discussed the sampling theorem as the Fourier transform dual of the Fourier series. Let $x(t)$ have a bandwidth of B . Consider the periodic signal

*In reading:
 band limited
 = band limited
 function
 = band limited
 signal*

*invalidate
 smoothness
 (could not
 be
 behaviour)
 Evaluate*

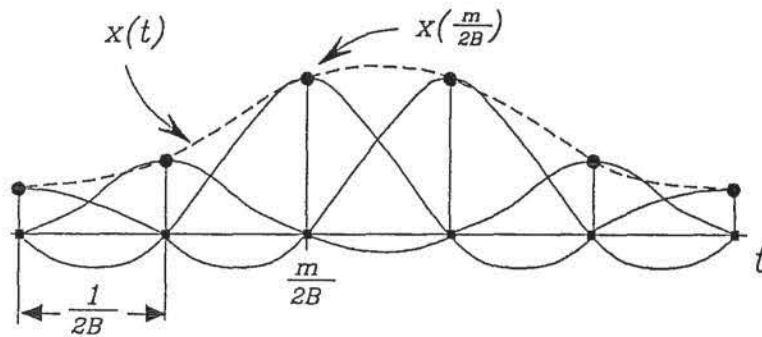


FIGURE 67.11 Illustration of the interpolation that results from the cardinal series. A sinc function, weighted by the sample, is placed at each sample bottom. The sum of the sines exactly generates the original bandlimited function from which the samples were taken.

$$Y(\omega) = \sum_{n=-\infty}^{\infty} X(\omega - 4\pi nB) \quad (67.70)$$

The function $Y(\omega)$ is a periodic function with period $4\pi B$. From Eq. (67.67) $X(\omega)$ is zero for $\omega > 2\pi B$ and is thus finite in extent. The terms in Eq. (67.70) therefore do not overlap. Periodic functions can be expressed as a Fourier series.

$$Y(\omega) = \sum_{n=-\infty}^{\infty} \alpha_n \exp\left(\frac{-jn\omega}{2B}\right) \quad (67.71)$$

where the Fourier series coefficients are

$$\alpha_n = \frac{1}{4\pi B} \int_{-2\pi B}^{2\pi B} Y(\omega) \exp\left(\frac{jn\omega}{2B}\right) d\omega$$

or

$$\alpha_n = \frac{1}{2B} x\left(\frac{n}{2B}\right) \quad (67.72)$$

where we have used the inverse Fourier transform in Eq. (67.69). Substituting into the Fourier series in Eq. (67.71) gives

$$Y(\omega) = \frac{1}{2B} \sum_{n=-\infty}^{\infty} x\left(\frac{n}{2B}\right) \exp\left(\frac{-jn\omega}{2B}\right) \quad (67.73)$$

Since a period of $Y(\omega)$ is $X(\omega)$, we can get back the original spectrum by

$$X(\omega) = Y(\omega) \Pi\left(\frac{\omega}{4\pi B}\right)$$

Substitute Eq. (67.73) and inverse transforming gives, using Eq. (67.69),

$$x(t) = \frac{1}{4B} \int_{-2\pi B}^{2\pi B} \sum_{n=-\infty}^{\infty} x\left(\frac{n}{2B}\right) \exp\left(\frac{-jn\omega}{2B}\right) e^{j\omega t} d\omega$$

Information Theory

67-35 MIT

or

$$x(t) = \sum_{n=-\infty}^{\infty} x\left(\frac{n}{2B}\right) \text{sinc}(2Bt - n) \quad (67.74)$$

where

$$\text{sinc}(t) = \frac{\sin \pi t}{\pi t}$$

is the inverse Fourier transform of $\Pi(\omega/2\pi)$. Eq. (67.74) is, of course, the cardinal series.

The sampling theorem generally converges uniformly, in the sense that

$$\lim_{N \rightarrow \infty} |x(t) - x_N(t)|^2 = 0$$

where the truncated cardinal series is

$$x_N(t) = \sum_{n=-N}^N x\left(\frac{n}{2B}\right) \text{sinc}(2Bt - n) \quad (67.75)$$

Sufficient conditions for uniform convergence are [8]

1. the signal, $x(t)$, has finite energy, E ,

$$E = \int_{-\infty}^{\infty} |x(t)|^2 dt < \infty$$

2. or $X(\omega)$ has finite area,

$$A = \int_{-\infty}^{\infty} |X(\omega)| d\omega < \infty.$$

Care must be taken in the second case, though, when singularities exist at $\omega = \pm 2\pi B$. Here, sampling may be required to be strictly greater than $2B$. Such is the case, for example, for the signal, $x(t) = \sin(2\pi Bt)$. Although the signal is bandlimited, and although its Fourier transform has finite area, all of the samples of $x(t)$ taken at of $t = n/2B$ are zero. The cardinal series in Eq. (67.74) will thus interpolate to zero everywhere. If the sampling rate is a bit greater than $2B$, however, the samples are not zero and the cardinal series will uniformly converge to the proper answer.

The Time-Bandwidth Product

The cardinal series requires knowledge of an infinite number of samples. In practice, only a finite number of samples are required. If most of the energy of a signal exists in the interval $0 \leq t \leq T$, and we sample at the Nyquist rate of $2B$ samples per second, then a total of $S = \langle 2BT \rangle$ samples are taken. ($\langle \theta \rangle$ denotes the largest number not exceeding θ .) The number S is a measure of the degrees of freedom of the signal and is referred to as its *time-bandwidth product*. A 5 minute single track audio recording requiring fidelity up to 20,000 Hz, for example, requires a minimum of $S = 2 \times 20,000 \times 5 \times 60^2 = 144$ million samples. In practice, audio sampling is performed well above the Nyquist rate.

Sources of Error

Exact interpolation using the cardinal series assumes that (1) the values of the samples are known exactly, (2) the sample locations are known exactly, and (3) an infinite number of terms are used in the series. Deviation from these requirements results in interpolation error due to (1) data noise,

(2) jitter, and (3) truncation, respectively. The effect of data error on the restoration can be significant. Some innocently appearing sampling theorem generalizations, when subjected to performance analysis in the presence of data error, are revealed as ill-posed. In other words, a bounded error on the data can result in unbounded error on the restoration [8].

Data Noise

The source of data noise can be the signal from which samples are taken, or from round-off error due to finite sampling precision. If the noise is additive and random, instead of the samples

$$x\left(\frac{n}{2B}\right)$$

we must deal with the samples

$$x\left(\frac{n}{2B}\right) + \xi\left(\frac{n}{2B}\right)$$

where $\xi(t)$ is a stochastic process. If these noisy samples are used in the cardinal series, the interpolation, instead of simple $x(t)$, is

$$x(t) + \eta(t)$$

where the interpolation noise is

$$\eta(t) = \sum_{n=-\infty}^{\infty} \xi\left(\frac{n}{2B}\right) \text{sinc}(2Bt - n)$$

If $\xi(t)$ is a zero mean process, then so is the interpolation noise. Thus, the noisy interpolation is an unbiased version of $x(t)$. More remarkably, if $\xi(t)$ is a zero mean (wide sense) stationary process with uncertainty (variance) σ^2 , then so is $\eta(t)$. In other words, the uncertainty at the sample point locations is the same as at all points of interpolation [8].

Truncation

The truncated cardinal series is in Eq. (67.75). A signal cannot be both bandlimited and of finite duration. Indeed, a bandlimited function cannot be identically zero over any finite interval. Thus, other than the rare case where an infinite number of the signal's zero crossings coincide with the sample locations, truncation will result in an error.

The magnitude of this error can be estimated through the use of Parseval's theorem for the cardinal series that states

$$\begin{aligned} E &= \int_{-\infty}^{\infty} |x(t)|^2 dt \\ &= \frac{1}{2B} \sum_{-\infty}^{\infty} \left| x\left(\frac{n}{2B}\right) \right|^2 \end{aligned} \quad (67.76)$$

The energy of a signal can thus be determined directly from either the signals or the samples. The energy associated with the truncated signal is

$$E_N = \frac{1}{2B} \sum_{-N}^N \left| x\left(\frac{n}{2B}\right) \right|^2$$

If $E - E_N \ll E$, then the truncation error is small.

Jitter

Jitter occurs when samples are taken near to but not exactly at the desired sample locations. Instead of the samples $x(n/2W)$, we have the samples

$$x\left(\frac{n}{2W} - \sigma_n\right)$$

where σ_n is the jitter offset of the n th sample. For jitter, the σ_n 's are not known. If they were, an appropriate nonuniform sampling theorem [9-10] could be used to interpolate the signal.

Using the jittered samples in the cardinal series results in an interpolation that is not an unbiased estimate of $x(t)$. Indeed, if the probability density function of the jitter is the same at all sample locations, the expected value of the jittered interpolation is the convolution of $x(t)$ with the probability density function of the jitter. This bias can be removed by inverse filtering at a cost of decreasing the signal-to-noise ratio of the interpolation [9].

Generalizations of the Sampling Theorem

There exist numerous generalizations of the sampling theorem [8-9].

1. **Stochastic processes.** A wide sense stationary stochastic process, $\chi(t)$, is said to be bandlimited if its autocorrelation, $R_\chi(t)$, is a bandlimited function. The cardinal series

$$\hat{\chi}(t) = \sum_{n=-\infty}^{\infty} \chi\left(\frac{n}{2B}\right) \text{sinc}(2Bt - n)$$

converges to $\chi(t)$ in the sense that

$$E\left[\left|\hat{\chi}(t) - \chi(t)\right|^2\right] = 0$$

where E denotes expectation.

2. **Nonuniform sampling.** There exist numerous scenarios wherein interpolation can be performed from samples are not spaced uniformly. Marvasti [1] devotes a book to the topic.
3. **Kramer's generalization.** Kramer generalized the sampling theorem to integral transforms other than Fourier, for example, to Legendre and Laguerre transforms.
4. **Papoulis' generalization.** Shannon noted that a bandlimited signal could be restored when sampling was performed at half the Nyquist rate if, at every sample location, a sample of the signal's derivative were also taken. Recurrent nonuniform sampling is where P samples are spaced the same in every P Nyquist intervals. Another sampling scenario is when a signal and its Hilbert transform are both sampled at half their respective Nyquist rates. Restoration of the signal from these and numerous other sampling scenarios are subsumed in an eloquent generalization of the sampling theorem by Papoulis.
5. **Lagrangian interpolation.** Lagrangian interpolation is a topic familiar in numerical analysis. An N th order polynomial is fit to $N+1$ arbitrarily spaced sample points. If an infinite number of samples are equally spaced, then Lagrangian interpolation is equivalent to the cardinal series.
6. **Trigonometric polynomials.** All periodic bandlimited signals can be expressed as trigonometric polynomials (i.e. a Fourier series with a finite number of terms). If the series has M terms, then the signal has M degrees of freedom which can be determined from M samples taken within a single period.

7. **Multidimensional sampling theorems.** Multidimensional signals, such as images, require dimensional extensions of the sampling theorem. The sampling of the signal now requires geometrical interpretation. Uniform sampling of an image, for example, can either be done on a rectangular or hexagonal grid. The minimum sampling density for one geometry may differ from that of another. The smallest sampling density that does not result in aliasing can be achieved, in many cases, with a number of different uniform sampling geometries and is referred to as the Nyquist density. Interestingly, sampling can sometimes be performed below the Nyquist density with nonuniform sampling geometries such that the multidimensional signal can be restored. Such is not the case for one dimension.
8. **Continuous sampling.** When a signal is known on one or more disjoint intervals, it is said to have been continuously sampled. Divide the time line into intervals of T . Periodic continuous sampling assumes that the signal is known on each interval over an interval of αT where α is the duty cycle. Continuously sampled signals can be accurately interpolated even in the presence of aliasing. Other continuously sampled cases, each of which can be considered as a limiting case of continuously periodically sampled restoration, include
 - (a) **Interpolation.** The tails of a signal are known and we wish to restore the middle.
 - (b) **Extrapolation.** We wish to generate the tails of a function with knowledge of the middle.
 - (c) **Prediction.** A signal for $t > 0$ is to be estimated from knowledge of the signal for $t < 0$.

Final Remarks

Since its popularization in the late 1940s, the sampling theorem has been studied in depth. More than 1000 papers have been generated on the topic [9]. Its understanding is fundamental in matching the largely continuous world to digital computation engines.

References

1. C. Shannon, "A mathematical theory of communication," *Bell System Technical Journal*, vol. 27, pp. 379, 623, 1948.
2. E. T. Whittaker, "On the functions which are represented by the expansions of the interpolation theory," *Proc. Royal Society of Edinburgh*, vol. 35, pp.181-194, 1915.
3. J. M. Whittaker, "The Fourier theory of the cardinal functions," *Proc. Math. Soc. Edinburgh*, vol. 1, pp.169-176, 1929.
4. V. A. Kotel'nikov "On the transmission capacity of 'ether' and wire in electrocommunications," *Izd. Red. Upr. Svyazi RSKA (Moscow)*, 1933.
5. J. R. Higgins "Five short stories about the cardinal series," *Bull. Am. Math. Soc.*, vol. 12, pp.45-89, 1985.
6. E. Borel, "Sur l'interpolation," *C.R. Acad. Sci. Paris*, Vol. 124, pp. 673-676, 1897.
7. A. J. Jerri, "The Shannon sampling theorem—its various extension and applications: a tutorial review," *Proc. IEEE*, vol. 65, pp.1565-1596, 1977.
8. R. J. Marks II, *Introduction to Shannon Sampling and Interpolation Theory*, Springer-Verlag, 1991.
9. R.J. Marks II, Editor, *Advanced Topics in Shannon Sampling and Interpolation Theory*, Springer-Verlag (1992).
10. F. A. Marvasti, *A Unified Approach to Zero-Crossing and Nonuniform Sampling*, Oak Park, Ill., 1987.

1993

67.5 Data Compression

Joy A. Thomas and Thomas M. Cover

Data compression is a process of finding the most efficient representation of an information source in order to minimize communication or storage. It often consists of two stages—the first is the

ELECTRICAL ENGINEERING HANDBOOK

Contributor Information

Please provide the information requested below for yourself and all co-authors of the enclosed manuscript. This information will be used to compile the list of contributors that will appear in the book. Be certain that you supply the information in the form in which you would like it to appear in the book.

NAME: Robert J. Marks II

DEGREES EARNED: B.S., M.S., Phd
(please use standard abbreviated form)

TITLE: Professor

DEPARTMENT: Electrical Engineering

STREET ADDRESS: FT-10

INSTITUTION: University of Washington

CITY: Seattle

STATE/COUNTRY: Washington ZIP CODE: USA

AUTHOR GUIDELINES FOR MARKING INDEX ENTRIES

The index is the result of the combined effort of the author and the CRC Press indexing staff. It is the responsibility of the author to indicate the key words or phrases that will appear as index entries. Terms should be underlined or highlighted (in a color other than red or black pen or pencil) where they appear in the proofs. The indexer will compile, alphabetize, and add page numbers to the entries marked by the author.

We have found that the terms most frequently neglected in underlining are those that are the most obvious entries, perhaps because the author has assumed that they will be indexed. The author should keep in mind the main purpose of the paper and indicate terms that will convey this information. Headings can be useful in this regard because they often contain wording that states the focus of a particular chapter or section. However, underlining only the headings will not provide a complete index. Specific terms appearing in the text, tables, and figure captions should also be indicated.

The following are some suggestions to assist the author in marking entries for the index:

1. Note that this book will include the following indexes: subject index, index of formulae, index of illustrations, and index of tables. Please keep this in mind when marking index entries.
2. In identifying key words or phrases, try to determine what terminology an investigator would use in searching the index to access information found in the text.
3. If the exact wording does not appear in the text, write the entry in the margin next to where it is discussed.
4. Indicate any cross references (see or see also) in the margin.
5. Underline or highlight a term each time it should be indexed. If a term should be indexed every time it appears, indicate so in the margin where it first appears.
6. Terms that appear in the figure captions and tables should also be underlined. If an entire column of a table is to be indexed, this should be stated in the margin near the top of the column.
7. Author names appearing in the text should generally not be indicated, unless a landmark study is being discussed.

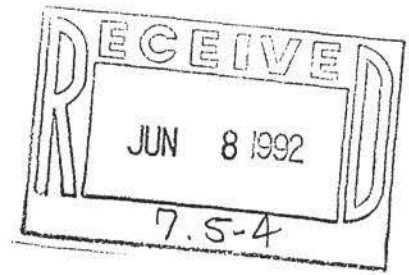
Any additional specific instructions the author can provide as to what should be included in the index can only serve to enhance the value of the index.

- ⧸ or ⧹ or ⧺ delete; take out
- ⊖ close up; print as one word
- ⊗ delete and close up
- ^ or > or < caret; insert here (something)
- # insert space
- eg# space evenly where indicated
- set let marked text stand as set
- ↔ transpose, change order (the)
- / used to separate two or more marks and often as a concluding stroke at the end of an insertion
- [set farther to the left
-] set farther to the right
- ~ set Æ or ſ as ligatures æ or ſ
- = straighten alignment
- || straighten or align
- x imperfect or broken character
- indent or insert em quad space
- ¶ begin a new paragraph
- Ⓟ spell out (set 5 lbs) as five pounds
- cap set in capitals (CAPITALS)
- sm cap or s.c. set in small capitals (SMALL CAPITALS)
- lc set in lowercase (lowercase)
- ital set in italic (italic)
- rom set in roman (roman)
- bf set in boldface (boldface)
- z or -/ or ⚭ or /H/ hyphen
- 1/2 or 1/2 or 1/2 en dash (1963-72)
- 1/4 or 1/4 or 1/4 em — or long — dash
- √ superscript or superior (3² as in r²)
- ∧ subscript or inferior (2₂ as in H₂O)
- ⋈ or ⋈ centered ⋈ for a centered dot in p · q
- ⌘ comma
- ⌘ apostrophe
- ⊙ period
- ⌘ or ⌘ semicolon
- ⌘ or ⌘ colon
- ⌘ or ⌘ quotation marks
- (/) parentheses
- [/] brackets
- OK/? query to author: has this been set as intended?
- ↓ or ↓ push down a work-up
- ⊖ turn over an inverted letter
- wf wrong font; a character of the wrong size or esp. style

The last three symbols are unlikely to be needed in marking marks of photocomposed matter.

7.5-4

67.4



① 67.4 The Sampling Theorem

Au R. J. Marks II
 Dept. of Electrical Engineering
 University of Washington, Seattle, WA, 98195

Introduction

and / Much of that which is ordinal is modeled as analog. Most computational engines, on the other hand, are digital. Transforming from analog to digital is straightforward: we simply sample. Regaining the original signal from these samples ~~or~~ assessing the information lost in the sampling process are the fundamental questions addressed by the sampling theorem.

The fundamental result of the sampling theorem is, remarkably, that a bandlimited signal is uniquely specified by its sufficiently close equally spaced samples. Indeed, the sampling theorem illustrates how the original signal can be regained from knowledge of the samples and the sampling rate at which they were taken.

Popularization of the sampling theorem is credited to Shannon [1] who, in 1948, used it to show the equivalence of the information content of a bandlimited signal and a sequence of discrete numbers. Shannon was aware of the pioneering work of Whittaker [2] and Whittaker's son [3] in formulating the sampling theorem. Kotel'nikov's [4] independent discovery in the Soviet Union deserves mention. Higgins [5] credits Borel (1897) [6] with first recognizing that a signal could be recovered from its samples.

Surveys of sampling theory are in the widely cited paper of Jerri [7] and in two books by the author [8-9]. Marvasti [10] has penned a book devoted to nonuniform sampling.

② The Cardinal Series

If a signal has finite energy, the minimum sampling rate is equal to two samples per period of the highest frequency component of the signal. Specifically, if the highest frequency component of the signal is B Hertz, then the signal, $x(t)$, can be recovered from the samples by

EQ
$$x(t) = \frac{1}{\pi} \sum_{n=-\infty}^{\infty} x\left(\frac{n}{2B}\right) \frac{\sin[\pi(2Bt - n)]}{2Bt - n} \quad (67.66)$$

The frequency B is also referred to as the signal's bandwidth and, if B is finite, $x(t)$ is said to be bandlimited. The signal, $x(t)$, is here being sampled at a rate of $2B$ samples per second. If sampling were done at a lower rate, the replications would overlap and the information about $X(\omega)$ (and thus $x(t)$) is irretrievably lost. Undersampling results in *aliased* data. The minimum sampling rate at which aliasing does not occur is referred to as the *Nyquist rate* which, in our example, is $2B$. Equation 1 was dubbed the *cardinal series* by the junior Whittaker [3].

A signal is bandlimited in the low pass sense if there is a $B > 0$ such that

EQ
$$X(\omega) = X(\omega) \Pi\left(\frac{\omega}{4\pi B}\right) \quad (67.67)$$

where the gate function $\Pi(\xi)$ is one for $\xi \leq 1/2$ and is otherwise zero, and

EQ
$$X(\omega) = \int_{-\infty}^{\infty} x(t) e^{-j\omega t} dt \quad (67.68)$$

is the Fourier transform of $x(t)$. That is, the spectrum is identically zero for $|\omega| > 2\pi B$. The B parameter is referred to as the signal's *bandwidth*. The inverse Fourier transform is

EQ
$$x(t) = \frac{1}{2\pi} \int_{-\infty}^{\infty} X(\omega) e^{j\omega t} d\omega \quad (67.69)$$

67.11 □

Figure 1 Illustration of the interpolation that results from the cardinal series. A sinc function, weighted by the sample, is placed at each sample location. The sum of the sincs exactly generates the original bandlimited function from which the samples were taken.

The sampling theorem reduces the normally continuum infinity of ordered pairs required to specify a function to a countable $\frac{1}{2\pi B}$ although still infinite $\frac{1}{2\pi B}$ set. Remarkably, these elements are obtained directly by sampling.

How can the cardinal series interpolate uniquely the bandlimited signal from which the samples were taken? Could not the same samples be generated from another bandlimited signal? The answer is "no". Bandlimited functions are smooth. Any behavior deviating from "smooth" would result in high frequency components which in turn invalidate the required property of being bandlimited. The smoothness of the signal between samples precludes arbitrary variation of the signal there.

Let's examine the cardinal series more closely. Evaluation of Eq. 2 at $t = m/2B$. Since $\text{sinc}(n)$ is one for $n = 0$ and is otherwise zero, only the sample at $t = m/2B$ contributes to the interpolation at that point. This is illustrated in Figure 1 where the reconstruction of a signal from its samples using the cardinal series is shown. The value of $x(t)$ at a point other than a sample location (e.g. $t = m + \frac{1}{2})/2B$ is determined by all of the sample values.

? All correct eq. no.?

/(67.74)

o 67.11
 rom.

Proof of the Sampling Theorem

Borel [6] and Shannon [1] both discussed the sampling theorem as the Fourier transform dual of the Fourier series. Let $x(t)$ have a bandwidth of B . Consider the periodic signal

$$Y(\omega) = \sum_{n=-\infty}^{\infty} X(\omega - 4\pi nB)$$

(67.70)
 (5)

(67.67)

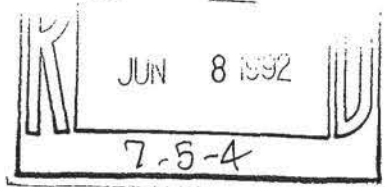
The function $Y(\omega)$ is a periodic function with period $4\pi B$. From Eq. 2 $X(\omega)$ is zero for $\omega > 2\pi B$ and is thus finite in extent. The terms in Eq. 5 therefore do not overlap. Periodic functions can be expressed as a Fourier series.

2)
$$Y(\omega) = \sum_{n=-\infty}^{\infty} \alpha_n \exp\left(\frac{-jn\omega}{2B}\right)$$

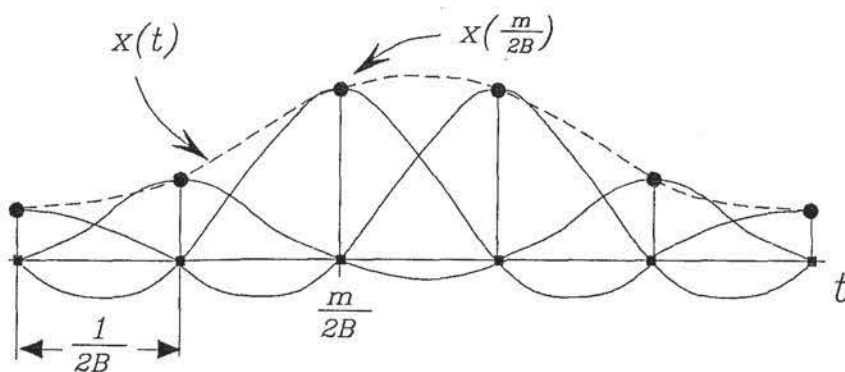
(67.71)
 (6)

where the Fourier series coefficients are

$$\alpha_n = \frac{1}{4\pi B} \int_{-2\pi B}^{2\pi B} Y(\omega) \exp\left(\frac{jn\omega}{2B}\right)$$



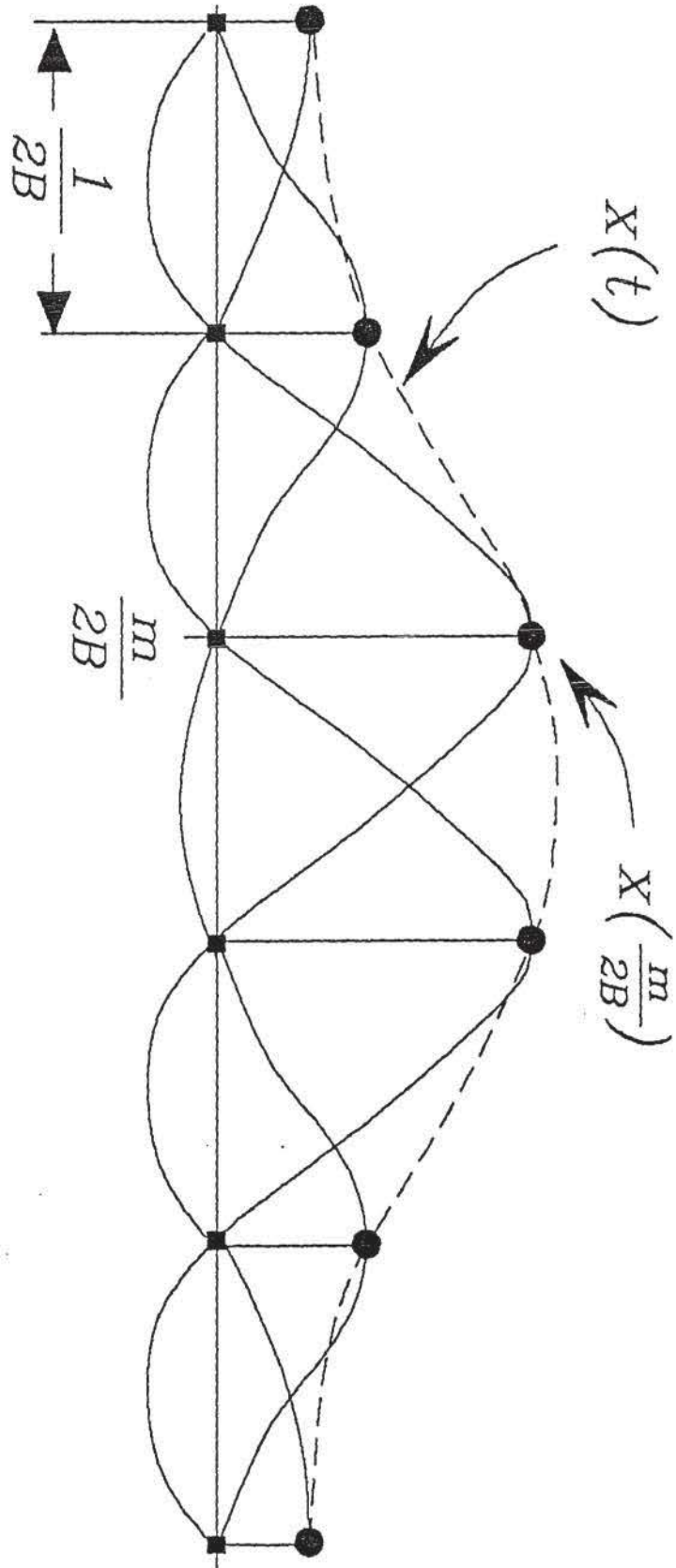
ORIGINAL
FIGURE



67.11

fig. 3.1

fig 7.11



or

(EQ)
$$\alpha_n = \frac{1}{2B} x\left(\frac{n}{2B}\right) \quad (67.69)_0 \quad (67.72)$$

where we have used the inverse Fourier transform in Eq. 8. Substituting into the Fourier series in Eq. 8 gives

(EQ)
$$Y(\omega) = \frac{1}{2B} \sum_{n=-\infty}^{\infty} x\left(\frac{n}{2B}\right) \exp\left(\frac{-jn\omega}{2B}\right) \quad (67.73)$$

Since a period of $Y(\omega)$ is $X(\omega)$, we can get back the original spectrum by

(EQ)
$$X(\omega) = Y(\omega) \Pi\left(\frac{\omega}{4\pi B}\right) \quad (67.69)_5$$

Substitute Eq. 8 and inverse transforming gives using Eq. 8

(EQ)
$$x(t) = \frac{1}{4\pi B} \int_{-2\pi B}^{2\pi B} \sum_{n=-\infty}^{\infty} x\left(\frac{n}{2B}\right) \exp\left(\frac{-jn\omega}{2B}\right) e^{j\omega t} d\omega$$

or

(EQ)
$$x(t) = \sum_{n=-\infty}^{\infty} x\left(\frac{n}{2B}\right) \text{sinc}(2Bt - n) \quad (67.74)$$

where

(EQ)
$$\text{sinc}(t) = \frac{\sin \pi t}{\pi t} \quad (67.74)$$

is the inverse Fourier transform of $\Pi(\omega/2\pi)$. Equation 8 is, of course, the cardinal series. The sampling theorem generally converges uniformly, in the sense that

(EQ)
$$\lim_{N \rightarrow \infty} |x(t) - x_N(t)|^2 = 0$$

where the truncated cardinal series is

(EQ)
$$x_N(t) = \sum_{n=-N}^N x\left(\frac{n}{2B}\right) \text{sinc}(2Bt - n) \quad (67.75)$$

Sufficient conditions for uniform convergence are [8]

1. the signal, $x(t)$, has finite energy, E ,

(NL) (EQ)
$$E = \int_{-\infty}^{\infty} |x(t)|^2 dt < \infty$$

2. or $X(\omega)$ has finite area,

(EQ)
$$A = \int_{-\infty}^{\infty} |X(\omega)| d\omega < \infty.$$

Care must be taken in the second case, though, when singularities exist at $\omega = \pm 2\pi B$. Here, sampling may be required to be strictly greater than $2B$. Such is the case, for example, for the signal, $x(t) = \sin(2\pi Bt)$. Although the signal is bandlimited, and although its Fourier transform has finite area, all of the samples of $x(t)$ taken at $t = n/2B$ are zero. The cardinal series in Eq. 8 will thus interpolate to zero everywhere. If the sampling rate is a bit greater than $2B$, however, the samples are not zero and the cardinal series will uniformly converge to the proper answer. / (67.74)

2 The Time-Bandwidth Product

The cardinal series requires knowledge of an infinite number of samples. In practice, only a finite number of samples are required. If most of the energy of a signal exists in the interval $0 \leq t \leq T$, and we sample at the Nyquist rate of $2B$ samples per second, then a total of $S = \lceil 2BT \rceil$ samples are taken. ($\lceil \theta \rceil$ denotes the largest number not exceeding θ .) The number S is a measure of the degrees of freedom of the signal and is referred to as its *time-bandwidth product*. A 5 minute single track audio recording requiring fidelity up to 20,000 Hertz, for example, requires a minimum of $S = 2 \times 20,000 \times 5 \times 60^2 = 144$ million samples. In practice, audio sampling is performed well above the Nyquist rate.

2 Sources of Error

Exact interpolation using the cardinal series assumes that (1) the values of the samples are known exactly, (2) the sample locations are known exactly, and (3) an infinite number of terms are used in the series. Deviation from these requirements results in interpolation error due to (1) data noise, (2) jitter, and (3) truncation, respectively. The effect of data error on the restoration can be significant. Some innocently appearing sampling theorem generalizations, when subjected to performance analysis in the presence of data error, are revealed as ill-posed. In other words, a bounded error on the data can result in unbounded error on the restoration [8].

3 Data Noise

The source of data noise can be the signal from which samples are taken, or from round-off error due to finite sampling precision. If the noise is additive and random, instead of the samples

$$\text{EQ} \quad x\left(\frac{n}{2B}\right)$$

we must deal with the samples

$$\text{EQ} \quad x\left(\frac{n}{2B}\right) + \xi\left(\frac{n}{2B}\right)$$

where $\xi(t)$ is a stochastic process. If these noisy samples are used in the cardinal series, the interpolation, instead of simple $x(t)$, is

$$\text{EQ} \quad x(t) + \eta(t)$$

where the interpolation noise is

$$\text{EQ} \quad \eta(t) = \sum_{n=-\infty}^{\infty} \xi\left(\frac{n}{2B}\right) \text{sinc}(2Bt - n)$$

If $\xi(t)$ is a zero mean process, then so is the interpolation noise. Thus, the noisy interpolation is an unbiased version of $x(t)$. More remarkably, if $\xi(t)$ is a zero mean (wide sense) stationary process with uncertainty (variance) σ^2 , then so is $\eta(t)$. In other words, *the uncertainty at the sample point locations is the same as at all points of interpolation* [8].

3 Truncation

(67.75)0

The truncated cardinal series is in Eq. 49. A signal cannot be both bandlimited and of finite duration. Indeed, a bandlimited function cannot be identically zero over any finite interval. Thus, other than the rare case where an infinite number of the signal's zero crossings coincide with the sample locations, truncation will result in an error.

The magnitude of this error can be estimated through the use of Parseval's theorem for the cardinal series that states

EQ

$$E = \int_{-\infty}^{\infty} |x(t)|^2 dt$$

$$= \frac{1}{2B} \sum_{-\infty}^{\infty} \left| x\left(\frac{n}{2B}\right) \right|^2$$

(67.76)
 (11)

The energy of a signal can thus be determined directly from either the signals or the samples. The energy associated with the truncated signal is

EQ

$$E_N = \frac{1}{2B} \sum_{-N}^N \left| x\left(\frac{n}{2B}\right) \right|^2$$

If $E - E_N \ll E$, then the truncation error is small.

3 Jitter

Jitter occurs when samples are taken near to but not exactly at the desired sample locations. Instead of the samples $x(n/2W)$, we have the samples

EQ

$$x\left(\frac{n}{2W} - \sigma_n\right)$$

n^{th}

where σ_n is the jitter offset of the n^{th} sample. For jitter, the σ_n 's are not known. If they were, an appropriate nonuniform sampling theorem [9-10] could be used to interpolate the signal. (rem.)

Using the jittered samples in the cardinal series results in an interpolation that is not an unbiased estimate of $x(t)$. Indeed, if the probability density function of the jitter is the same at all sample locations, the expected value of the jittered interpolation is the convolution of $x(t)$ with the probability density function of the jitter. This bias can be removed by inverse filtering at a cost of decreasing the signal-to-noise ratio of the interpolation [9].

2 Generalizations of the Sampling Theorem

There exist numerous generalizations of the sampling theorem [8-9].

1. **Stochastic Processes.** A wide sense stationary stochastic process, $\chi(t)$, is said to be bandlimited if its autocorrelation, $R_\chi(t)$, is a bandlimited function. The cardinal series

EQ

$$\hat{\chi}(t) = \sum_{n=-\infty}^{\infty} \chi\left(\frac{n}{2B}\right) \text{sinc}(2Bt - n)$$

converges to $\chi(t)$ in the sense that

EQ

$$E [|\hat{\chi}(t) - \chi(t)|^2] = 0$$

where E denotes expectation.

2. **Nonuniform Sampling.** There exist numerous scenarios wherein interpolation can be performed from samples are not spaced uniformly. Marvasti [1] devotes a book to the topic.

3. **Kramer's Generalization.** Kramer generalized the sampling theorem to integral transforms other than Fourier, for example, to Legendre and Laguerre transforms.
4. **Papoulis' Generalization.** Shannon noted that a bandlimited signal could be restored when sampling was performed at half the Nyquist rate if, at every sample location, a sample of the signal's derivative were also taken. Recurrent nonuniform sampling is where P samples are spaced the same in every P Nyquist intervals. Another sampling scenario is when a signal and its Hilbert transform are both sampled at half ~~the~~ ^{their} respective Nyquist rates. Restoration of the signal from these and numerous other sampling scenarios are subsumed in an eloquent generalization of the sampling theorem by Papoulis.
5. **Lagrangian Interpolation.** Lagrangian interpolation is a topic familiar in numerical analysis. A N th order polynomial is fit to $N + 1$ arbitrarily spaced sample points. If an infinite number of samples are equally spaced, then Lagrangian interpolation is equivalent to the cardinal series.
6. **Trigonometric Polynomials.** All periodic bandlimited signals can be expressed as trigonometric polynomials (i.e. a Fourier series with a finite number of terms). If the series has M terms, then the signal has M degrees of freedom which can be determined from M samples taken within a single period.
7. **Multidimensional Sampling Theorems.** Multidimensional signals, such as images, require dimensional extensions of the sampling theorem. The sampling of the signal now requires geometrical interpretation. Uniform sampling of an image, for example, can either be done on a rectangular or hexagonal grid. The minimum sampling density for one geometry may differ from that of another. The smallest sampling density that does not result in aliasing can be achieved, in many cases, with a number of different uniform sampling geometries and is referred to as the Nyquist density. Interestingly, sampling can sometimes be performed below the Nyquist density with nonuniform sampling geometries such that the multidimensional signal can be restored. Such is not the case for one dimension.
8. **Continuous Sampling.** When a signal is known on one or more disjoint intervals, it is said to have been continuously sampled. Divide the time line into intervals of T . Periodic continuous sampling assumes that the signal is known on each interval over an interval of αT where α is the duty cycle. Continuously sampled signals can be accurately interpolated even in the presence of aliasing. Other continuously sampled cases, each of which can be considered as a limiting case of continuously periodically sampled restoration, include
 - (a) **Interpolation.** The tails of a signal are known and we wish to restore the middle.
 - (b) **Extrapolation.** We wish to generate the tails of a function with knowledge of the middle.
 - (c) **Prediction.** A signal for $t > 0$ is to be estimated from knowledge of the signal for $t < 0$.

(LNL)

n/

(COM)

/their

(2)

Final Remarks

1940s

More than

Since its popularization in the late forties, the sampling theorem has been studied in depth. Over 1000 papers have been generated on the topic [9]. Its understanding is fundamental in matching the largely continuous world to digital computation engines.

References

(REF)

1. C. Shannon, "A mathematical theory of communication", *Bell System Technical Journal*, vol. 27, pp. 379, 623, (1948).

REF

2. E.T. Whittaker, "On the functions which are represented by the expansions of the interpolation theory", *Proc. Royal Society of Edinburg*, vol. 35, pp.181-194 (1915).
3. J.M. Whittaker, "The Fourier theory of the cardinal functions", *Proc. the Math. Soc. of Edinburg*, vol. 1, pp.169-176 (1929).
4. V.A. Kotel'nikov, "On the transmission capacity of ether and wire in electrocommunications", *Izd. Red. Upr. Svyazi RKKA* (Moscow), 1933.
5. J.R. Higgins "Five short stories about the cardinal series", *Bull. Am. Math. Soc.*, vol. 12, pp.45-89 (1985).
6. E. Borel, "Sur l'interpolation", *C.R. Acad. Sci. Paris*, Vol. 124, pp. 673-676 (1897).
7. A.J. Jerri, "The Shannon sampling theorem: its various extension and applications: a tutorial review", *Proc. IEEE*, vol. 65, pp.1565-1596 (1977).
8. R.J. Marks II, Introduction to Shannon Sampling and Interpolation Theory, Springer-Verlag, 1991.
9. R.J. Marks II, Editor, Advanced Topics in Shannon Sampling and Interpolation Theory, Springer-Verlag, 1992.
10. F.A. Marvasti, A Unified Approach to Zero-Crossing and Nonuniform Sampling, Oak Park, Ill., 1987.

? Au. Place of publication?

? Au. Publisher?

Defining Terms,
Further Info. not
supplied.

file
sent 10/28
transmission ok

UNIVERSITY OF WASHINGTON
DEPARTMENT OF ELECTRICAL ENGINEERING FT-10
SEATTLE, WASHINGTON 98195 USA

FAX: (206) 543-3842

FAX Cover Sheet

ATTENTION: Mr. Zhou Mengqi, Chief of International Activities

NAME OF FIRM: Chinese Institute of Electronics

LOCATION: Beijing

FAX TELEPHONE NUMBER: 861 500 5233

FROM: Robert J. Marks II,

PHONE: 206-776-8990 (home)
206-543-6990 (work)

This transmission, including this cover page, contains 2 pages

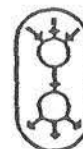
DATE: Wednesday, Oct. 28

TIME: 11:00 am

Please call (206) 543-6061 if you do not receive all of the pages.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

October 28, 1992

Mr. Zhou Mengqi
Chief of International Activities
Chinese Institute of Electronics
Nongzhanguan Nan Lu 12 Room 2308
Beijing, 100026

FAX: 861 500 5233

Dear Zhou,

I look forward to the Beijing IJCNN and visiting your great country. My wife will be accompanying me.

I would be deeply appreciative if a student could meet us at the airport and assist us in getting to the hotel. I hope this is not a great inconvenience to you. My flight is United #853 from San Francisco (stopping in Tokyo to change equipment) arriving in Beijing 8:40 PM on Monday, November 2.

I look forward to seeing you again.

Sincerely,

Robert J. Marks II
Past President
IEEE Neural Networks Council

Mail for Ruth Wagner

1

Wed, 28 Oct 92 01:03:31 -0800

From marks@u.washington.edu Wed Oct 28 01:03:33 1992
From: Robert Marks <marks@u.washington.edu>
To: wagner@essex.ee.washington.edu
Cc: marks@u.washington.edu
Subject: FAX
Date: Wed, 28 Oct 92 01:03:31 -0800

Type & FAX to Zhou Mengqi on Past President Stationary:

Dear Zhou,

I look forward to the Beijing IJCNN and visiting your great country.
My wife will be accompanying me.

I would be deeply appreciative if a student could meet us at the
airport and assist us in getting to the hotel. I hope this is not
a great inconvenience to you. My flight is United XXX which is due
to arrive in Beijing at X:XXPM on DDay, Nov X.

I look forward to seeing you again.

Sincerely,
R.J. Marks II, PP
IEEE NNC

typed 10/28

Det 11⁴⁵ Han (got thru then)



The Washington Technology Center
Office of the Executive Director

file

University of Washington, 300 Fluke Hall, FJ-15, Seattle, Washington 98195. General phone (206) 685-1920. FAX (206) 543-3059

Monday, October 5, 1992

Dr. Dziem Nguyen, Principal Engineer
BOEING COMPANY
P.O. Box 3707
M/S 6H-FL
Seattle, WA 98124

draft

RE: OPTICAL NEURAL NET MEMORY Patent No. 4,849,940

Dear Dr. Nguyen:

WTC's patent attorney has notified WTC of information on the status of the aforementioned patent. The patent issued in the US Patent Office in 1989 and now has come up for a patent maintenance payment by WTC. A maintenance payment and processing fee is required about once every three and 1/2 years, and runs essentially \$700 each instance.

The invention that the patent protects is the result of research work that Boeing High Technology Center originally sponsored with Dr. Robert Marks, *et al* of the UW, entitled "An Optical Continuous Level Neural Network." You, Dr. Nguyen, were involved with this work while you were at the High Tech Center. Boeing's right to this work is connected contractually to WTC via Purchase Contract LD2709 and LC9753.

Boeing Aerospace, on behalf of High Tech Center, originally directed WTC, in writing, to pursue patent protection for this invention. (see attachment.) If Boeing has an interest in keeping this patent active in the US Patent Office without lapsing, it is customary for the invention sponsor to share in the patent and legal costs associated with the patent application.

I have attached a listing of our costs associated with the application, its prosecution and issuance. I pose that we share alike in the costs of having secured this patent and its maintenance. If you agree, your cost would be half of \$8,492.00 plus half of \$700 to maintain it for another three years. The total portion for Boeing then would be \$4,596.00. If you agree, please let us know.

Sincerely yours,

Peter A. Odabashian, Director
Technology Transfer and External Affairs

draft

attachments
June 1, 1987 letter
Schedule of payments

cc.
Bob Marks, WTC
Fred Dorkin, Boeing, M/S 84-10
Rob Graham, Boeing M/S 8H-35

Logo: "The Raven" ... a Northwest Coast Indian design symbolizing the raven as a bringer of knowledge.
A computer chip and DNA chain are held in the raven's beak. Artist: Bill Holm.



The Washington Technology Center Facsimile Cover Sheet

FAX number (206) 543-3059

To: Name: Bob Marks
Company: UW
Fax number: 543-3842
From: Name: P. Odabashian
Date: 10-5-92

Number of pages, including cover:

Comments

Bob -
Is this a fair summary? 7

POO

Inquiries to: The Washington Technology Center, University of Washington,
Fluke Hall, FJ-15, Seattle, WA 98195, USA

General Phone: (206) 685-1920

Internet ID:

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842
September 21, 1992

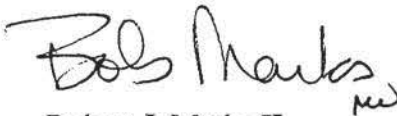
Mary Clarke
Decisions International
One Buckhead Plaza, Suite 1410
3060 Peachtree Road, NW
Atlanta, GA 30305

Dear Mary:

Attached is an accounting of funds I expended on the trip to Madrid. I would appreciate having reimbursement for this sent to me at the above address.

Will you also be sending the honorarium check or should I contact someone else?

Sincerely,

A handwritten signature in cursive script that reads "Bob Marks" with a small flourish at the end.

Robert J. Marks II
Professor

enclosure

raw

Expenses for Robert J. Marks

Madrid, Spain

September 7-11, 1992

Shuttle Express to SeaTac Airport from home	\$21.00
Tip for above	2.00
Plane ticket to Madrid	1262.00
Taxi to Madrid Airport from hotel	about 27.00 (2500 pts)
Shuttle Express from SeaTac Airport to home	21.00
Tip for above	<u>2.00</u>
TOTAL	\$1335.00

Signed Robert J. Marks II

Robert J. Marks II

PASSENGER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS CONTAINED IN THIS TICKET		CONJUNCTION TICKET(S)		See below for Airline Form, Serial Number									
ISSUED BY BRITISH AIRWAYS PLC		ARC PASSENGER COUPON		ORIGIN/DESTINATION SEA/SEA - SITI STANG TRAVEL									
PENALTY FOR TKT REISSUE/RFD		DATE OF ISSUE 21AUG92		BOOKING REFERENCE SLURMO									
ISSUER NAME MARKS, ROBERT OR		NOT TRANSFERABLE		ISSUED IN EXCHANGE FOR									
TO FROM		CARRIER	FLIGHT	CLASS	DATE	TIME	STATUS	FARE BASIS/TKT. DESIGNATOR	NOT VALID BEFORE	NOT VALID AFTER	ALLOW		
X	SEATTLE TACOMA	BA	84	M	06SEP	920P	OK	MOWAF	06SEP	06SEP			
X	LONDON HEATHROW	BA	462	M	07SEP	700P	OK	MOWAF	07SEP	07SEP			
O	MADRID	BA	457	M	13SEP	1015A	OK	MOWAF	13SEP	13SEP			
X	LONDON HEATHROW	BA	85	M	13SEP	130P	OK	MOWAF	13SEP	13SEP			
TO FROM		BAGGAGE CHECKED	UNCHECKED	PCS	WT.	UNCHECKED	PCS	WT.	UNCHECKED	PCS	WT.	UNCHECKED	
USD 1244.00		SEA	BA	X/LON	BA	MAD622.00	BA	X/LON	BA	SEA	22.00	NUC1244.00	
QUV. FARE PD.		ROEL.00000											
FORM OF PAYMENT		AX3787 4369 195 2005#10/92		TOUR CODE									
AGT. TR. NO. 1262.00		CPN. AIRLINE CODE FORM SERIAL NUMBER CK		ORIGINAL ISSUE									
TROL NO. 43568351903		125 7711577554 2 □		1256								10	

F A X C O V E R S H E E T

Department of Electrical Engineering
University of Washington
Seattle, Washington 98195

Main Office Number: (206) 543-2150

Date: 9/25/92 No. pages including this one: 1

TO: Dr. Witali Dunin-Barkowski

Phone: () FAX: () 7095 3660394

FROM:

Professor Robert J. Marks

Phone: (206) 543-6990 FAX: (206) 543-3842

E Mail Address: marks@milton.u.washington.edu

Message: Don Wunsch from the Boeing Computer Services in Seattle is coming to the conference and plans to stay in the Russian Federation until Nov. 2 going on to IJCNN in Beijing.

Could you please fax an invitation letter to Don with a departure date of Nov. 2

Dr. D. Wunsch II

Boeing Computer Services

PO Box 24346, MS 6C-04

Seattle, WA 98124-0346

FAX # 206-477-1001

(Optional: Info. for someone placing FAX for you: Budget #: UWATS Code:)

Mail for Ruth Wagner

1

Mon, 31 Aug 92 05:11:20 -0700

From marks@u.washington.edu Mon Aug 31 05:10:32 1992
From: Robert Marks <marks@u.washington.edu>
To: delliot@src.umd.edu, marks@milton.u.washington.edu
Cc: marks@u.washington.edu, wagner@essex.ee.washington.edu
Subject: Re: Followup
Date: Mon, 31 Aug 92 05:11:20 -0700

From delliot@src.umd.edu Tue Aug 18 17:11:07 1992
Received: from newra.src.umd.edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.22) id AA27574; Tue, 18 Aug 92 17:11:0

4 -0700

Received: by newra.src.umd.edu (4.1/UMDSRC-0.2/08-10-91)
id AA02449; Tue, 18 Aug 92 20:12:50 EDT
Date: Tue, 18 Aug 92 20:12:50 EDT
From: delliot@src.umd.edu (David L. Elliott)
Message-Id: <9208190012.AA02449@newra.src.umd.edu>
To: marks@milton.u.washington.edu
Subject: Followup
Status: 0

Dear Dr. Marks-- this is the electronic-mail invitation:

Allen Stubberud and I are putting together a programmatic Workshop (by invitation only) for the NSF Neuroengineering program at the request of Paul Werbos; it will be held from Saturday night 10/24/92 to Tuesday afternoon 10/27/92 at the University of Maryland's Conference Center in College Park (best airport: BWI). Please let me know as soon as possible whether you can attend. We will have 20-minute talks (position papers, really) and at some point I'll ask you for a brief abstract for the Program Committee to use; we will all be engaging in discussion and writ

ing

for a Report to NSF. Your airfare (up to at least \$300) lodging here at the Center and most meals will be covered by the NSF grant. If you can make it, please reply by e-mail ASAP.

We will send you a letter with full details. The Workshop's purpose is to think about the future of the Neuroengineering program at NSF, in relation to the needs of Engineering. Input from the research community to NSF occurs in many ways, and the Workshop method is fairly common.

tanding

Neuroengineering has been evolving very rapidly, with increasing unders of its underlying difficulties and of its contribution of ideas and components for computing, communication and control.

ponents

We have been inviting people (30 max) who we think have appropriate experience, are articulate, and can keep the discussion movi

ng.

The outcome should be a report useful to Program Director Paul Werbos and Division Director Irene Peden.

David Elliott
Institute for Systems Research
University of Maryland
College Park, MD 20742
(301) 405-1241

F A X C O V E R S H E E T

Department of Electrical Engineering
University of Washington
Seattle, Washington 98195

Main Office Number: (206) 543-2150

Date: 9/15/92 No. pages including this one: 2

TO: Toshio Fukuda

Phone: () 781-5111 FAX: (011-81) 052 781-9243

FROM: Bob Marks

Phone: (206) 543-6990 FAX: (206) 543-3842

E Mail Address: marks@milton.u.washington.edu

Message:

(Optional: Info. for someone placing FAX for you: Budget #: UWATS Code:)

dc 9/14/92

F A X C O V E R S H E E T

Department of Electrical Engineering
University of Washington
Seattle, Washington 98195
Main Office Number: (206) 543-2150

Date: _____ No. pages including this one: _____

TO: Shirley Chau

Phone: () 766 5111 FAX: (011- ~~852~~) 852-7643374

FROM: _____

Phone: (206) _____ FAX: (206) 543-3842

E Mail Address: _____

Message: _____

(Optional: Info. for someone placing FAX for you: Budget #: _____ UWATS Code: _____)

file



Departamento de Electrónica y
Tecnología de Computadores
Facultad de Ciencias
Universidad de Granada
18071 GRANADA, Spain

Prof. Alberto PRIETO
Tno. (34) 58-243226
Fax:(34) 58-243230
(34) 58-274258
E-mail: aprieto@ugr.es

Robert J. MARKS II
1131 199th St. S.W. Suite N
Lynnwood, WA 98036-7138
USA

Dear Dr. Marks

In name of the Organizing Committee of IWANN'93 I acknowledge your acceptance to participate in the Programme Committee of this workshop.

The dates which we had initially proposed have been changed in order not to coincide with ICANN'93. Please find enclosed the "First Announcement and Call for Papers", that contains information about the revised dates and other matters.

I will keep in touch on any new developments.

I look forward to hearing from you, yours sincerely,

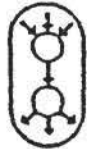
Alberto PRIETO
General Chairman of IWANN'93

Granada, 3rd May 1992



NEURAL NETWORKS COUNCIL

file



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

September 16, 1992

Lorraine
Silver Club Hotel
P. O. Box 3567
Sparks, Nevada 89432

Dear Lorraine:

Enclosed is a copy of a charge on Robert J. Marks II's American Express Card. I know he did cancel his trip to Sparks, but I did not remember that he had a reservation at the Hotel to cancel. He has asked me to inquire if he has to pay this charge.

I would appreciate any information you can give me on this. You can call me at (206) 543-6061 if that is more convenient. I generally am at my desk between 8:30 and 4:30 with lunch from 12-1.

Thank you for your help.

Sincerely,

Ruth Wagner

Ruth A. Wagner
Secretary to Prof. Marks

ROBERT MARKS

ITEM 1	\$35.84
SILVER CLUB HOTEL SPARKS NV INV#791650	
378743691952905	
Robert Marks 10/92	Agency Code 24
NO SHOW SILVER CLUB	Check of Bill Number 541181
53067000612312	Amnt of Delivered Chp. 207
SPARKS NV	073092
Phone order	TOTAL 3564
00 791650	American Express® Cards

1-800-648-1137 Lorraine

Statement of Corporate Card Account



W5

Payable upon Receipt in U.S. Dollars with a check drawn on a bank located in the U.S. or a money order.

Please enter Corporate Account Number on all checks and correspondence.

8 RO 60 1

TERMS - PAYABLE IN FULL
UPON RECEIPT OF STATEMENT.

Check here if address or telephone number has changed. See reverse side.

Corporate Account Number	Statement Closing Date	Total Amount Due
3787-436919-52005	08-29-92	\$35.06

ROBERT MARKS
1131 199 ST SW
LYNNWOOD WA
98036-7138

MAIL PAYMENT TO:

AMERICAN EXPRESS
P.O. BOX 0001
LOS ANGELES, CA
90096-0001

00218743691951751000035063 H0000329649

Detach here and return upper portion with check or money order. Do not staple or fold.

Summary of Corporate Card Account



Retain this portion for your files.

Corporate Cardmember Name	Corporate Account Number	Statement Closing Date
ROBERT MARKS	3787-436919-52005	08-29-92

Previous Balance	New Charges	Other Debits	Payments Received	Other Credits	Balance Due
\$1,027.42	\$329.64	\$.00	\$1,028.00	\$294.00	\$35.06

Reference Number	Item Number	Description of Monthly Activity	Charges	Credits
		PREVIOUS BALANCE	\$1,027.42	
831218		PAYMENT RECEIVED - THANK YOU 08/05		1,028.00
042223	1	SILVER CLUB HOTEL SPARKS NV INV#791650	35.64	
666222	2	US AIR SEATTLE WA		
		TKT# 0377711577219 07/24	147.00	
700229	3	US AIR SEATTLE WA		
		TKT# 0377711577219 07/30		147.00
666222	4	AMERICA WEST AIRLINESSEATTLE WA		
		TKT# 4017711577218 07/24	147.00	
700229	5	AMERICA WEST AIRLINESSEATTLE WA		
		TKT# 4017711577218 07/30		147.00
		TOTAL CHARGES AND CREDITS	\$329.64	\$1,322.00
		BALANCE DUE	\$35.06	

PAGE 1 OF 2

Payments or credits received after closing date above will appear on next month's statement.

FOR INQUIRIES ABOUT YOUR ACCOUNT, CALL TOLL-FREE 1-800-528-2122 OR WRITE US AT POST OFFICE BOX 53815, PHOENIX, AZ. 85072-3815.



ITEM 1
SILVER CLUB HOTEL SPARKS NV INV#791650 \$35.64

378743691952005

Robert Marks 10/92

NO SHOW SILVER CLUB 530870006131312 SPARKS NV 073092

Phone order

TOTAL 35.64

00 791650 American Express® Cards

1-800-648-1137 Lorraine

ITEM 2
US AIR SEATTLE WA \$147.00

Cardmember Account No. 3787-436919-52005	Transaction Date 07/24/92	Ticket Number 03777115772193
Passenger Name MARKS/R	Ticketing Airline US AIR	
Issuer Name STANG TRAVEL SERVICE	Issuer Address SEATTLE WA	
From RENO NV	Carrier US	Class KD
To SEATTLE WA	Transaction Amount 147.00	
To:	Amexco Use Only 622030027517 003700 00 223000	
PASSENGER TICKET		

ITEM 3
US AIR SEATTLE WA \$147.00CR

Cardmember Account No. 3787-436919-52005	Transaction Date 07/30/92	Ticket Number 03777115772199
Passenger Name MARKS/R	Ticketing Airline US AIR	
Issuer Name STANG TRAVEL SERVICE	Issuer Address SEATTLE WA	
From NOT RECORDED	Carrier	Class
To NOT RECORDED	Transaction Amount 147.00 CR	
To:	Amexco Use Only 622730080447 003700 666230	
CREDIT OR ADJUSTMENT - UNUSED AIRLINE TICKET		

ITEM 4
AMERICA WEST AIRLINES SEATTLE WA \$147.00

Cardmember Account No. 3787-436919-52005	Transaction Date 07/24/92	Ticket Number 40177115772182
Passenger Name MARKS/R	Ticketing Airline AMERICA WEST AIRLINES	
Issuer Name STANG TRAVEL SERVICE	Issuer Address SEATTLE WA	
From SEATTLE WA	Carrier HP	Class YC
To RENO NV	Transaction Amount 147.00	
To:	Amexco Use Only 622030031399 003700 00 223000	
PASSENGER TICKET		

ITEM 5
AMERICA WEST AIRLINES SEATTLE WA \$147.00CR

Cardmember Account No. 3787-436919-52005	Transaction Date 07/30/92	Ticket Number 40177115772189
Passenger Name MARKS/R	Ticketing Airline AMERICA WEST AIRLINES	
Issuer Name STANG TRAVEL SERVICE	Issuer Address SEATTLE WA	
From NOT RECORDED	Carrier	Class
To NOT RECORDED	Transaction Amount 147.00 CR	
To:	Amexco Use Only 622730094766 003700 666230	
CREDIT OR ADJUSTMENT - UNUSED AIRLINE TICKET		

702-358-4791



IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

(908) 562- 3875

LETTER OF AGREEMENT

BETWEEN: Prof. Robert J. Marks II University of Washington FT-10 EE Dept. Seattle, WA 98195	AND: IEEE 445 Hoes Lane P.O. Box 1331 Piscataway, NJ 08855-1331
---	---

DATE: August 10, 1992

TITLE OF PUBLICATION: Proceedings of the 1992 IEEE-SP International Symposium on Time-Frequency and Time-Scale Analysis


We are in receipt of your completed *IEEE Conference Publication Form* and have determined that your publication is appropriate for inclusion in the IEEE Book Broker Program.

As a result, it is imperative that your conference fulfill its obligation to provide 50 copies of the above referenced conference proceedings to IEEE as soon as they are available. Based on the estimated print-run and page count provided, IEEE will reimburse the conference at an estimated rate of \$ 33.28 per copy, for a estimated total acquisition payment of \$ 1,664.00. The actual acquisition payment will be based on the actual print-run and page count and may vary from this estimate. Reimbursement of reasonable shipping charges will also be included in the acquisition payment.

Similarly, the following catalog numbers have been assigned to your publication. These catalog numbers along with the IEEE Copyright Statement and CCC Codes must be placed in your publication according to the guidelines set forth in the attached enclosures. Failure to follow these guidelines may result in the deduction of an amount sufficient to cover charges incurred by IEEE in the correction of errors.

IEEE Catalog Number:	92TH0478-8	
ISBN:	0-7803-0805-0	Softbound Edition
	0-7803-0806-9	Microfiche Edition
Library of Congress:	92-56487	

Your signature below signifies agreement with the terms and conditions stated above. Please sign this document and return a copy to IEEE Conference Services at the above address.

 Publications Chairman for designee	ORGANIZATION CHAIR	 Perry Sensi, Manager Conference Services
---	-----------------------	--



GUIDELINES FOR THE PREPARATION OF AN IEEE CONFERENCE RECORD

Often, when coordinating the production of a conference record, the finer details are lost among the larger, technical aspects such as collecting the manuscripts, composing the introduction, etc. However, these finer details such as acquiring a signed *IEEE Copyright Form* from each author and printing the appropriate catalog numbers, IEEE Copyright Notice and Copyright Clearance Center (CCC) code in the proceedings are equally important. Please be advised, most copyright requirements will apply even if a conference is co-sponsored by an IEEE entity and a non-IEEE entity. Therefore, it is important for all Publication Chairpersons to read the enclosed brochure carefully.

Due to the 1978 U.S. Copyright Act, Publication Chairmen of all IEEE Sponsored and most Co-sponsored conferences must obtain copyright transfers from their authors in writing prior to publication of papers. This is imperative for IEEE to obtain and maintain copyright to these documents.

Similarly, three very important elements which must appear in the conference publication are the catalog numbers, the IEEE Copyright Notice, and the Copyright Clearance Center (CCC) code.

CATALOG NUMBERS

All catalog numbers which should appear in your publication are identified in the *Letter of Agreement*. They must appear in the publication as described below. The correct placement of these numbers on the reverse of the title page is illustrated on the next page.

- **IEEE Catalog Number** - The IEEE Catalog Number will identify your conference proceedings as an IEEE product. This number should appear on the front cover, spine and reverse of the title page.
- **ISBN** - The ISBN (International Standard Book Number) is designed to standardize internationally the use of book numbers. As a result, each ISBN identifies one title or edition of a title from one specific publisher and is unique to that edition. Therefore, all of the ISBN's provided must be printed on the reverse of the title page.
- **Library of Congress Number** - The Library of Congress Number is valid only for a single publication. If subsequent conferences are planned with this title, you are advised to keep the title of your publication consistent with those of previous years. This will enable us to apply for an ISSN in the future and greatly assist our librarian subscribers with the processing of information on technical literature. The Library of Congress Number must appear on the reverse of the title page.
- **ISSN** - The ISSN (International Standard Serial Number) has been established by the National Serials Data Program of the Library of Congress as a world-wide standard for the identification of serial publications. The ISSN is an aid to librarians, scholars, researchers, abstracters, and others with a need for accurate cataloging data for serial publications and can easily be employed in computerized information and retrieval systems. Since one ISSN is valid for the life of a serial publication, you are advised to keep the title of the conference consistent from year to year. However, if the title should change at any time, please contact the IEEE Conference Services Department immediately. The ISSN must appear on the reverse of the title page.

THE IEEE COPYRIGHT NOTICE & THE COPYRIGHT CLEARANCE CENTER (CCC) CODE

The subsequent pages of this guide explain the *Copyright Requirements for IEEE Sponsored Conference Publications* and provide a summary of the policies and procedures related to copyright. However, the primary issues are the IEEE Copyright Notice and the CCC code. Please note, both the IEEE Copyright Notice and CCC code have recently been revised.

COPYRIGHT REQUIREMENTS FOR IEEE SPONSORED CONFERENCE PUBLICATIONS

These instructions apply to all IEEE sponsored conferences which produce a conference publication. They also apply to those conferences which IEEE sponsors jointly with other organizations and for which IEEE will hold copyright to the conference publication.

1. IEEE POLICIES

Prior to enumerating specific requirements and procedures, the following brief summary of policies may be helpful.

A. Copyright Transfer from Authors to IEEE

All IEEE conference publications are required to be copyrighted by the IEEE. Under the 1976 U.S. Copyright Act, in order for IEEE to hold copyright to the individual papers it publishes, the transfer of copyright from authors or their companies to IEEE must be confirmed in writing. Therefore, the Conference Publication Committee must require authors to sign an IEEE Copyright Form prior to and as a prerequisite for publication. Transfer of copyright is discussed in detail in Section 3A.

B. Copyright Clearance Center

The 1976 U.S. Copyright Act prohibits large scale "systematic" photocopying without the consent of the copyright owners. The nonprofit Copyright Clearance Center (CCC) was established to provide a centralized mechanism to facilitate the appropriate reuse of copyrighted materials. A publisher can utilize the mechanism simply by printing a code on the first page of each paper.

Most scientific and technical publishers, including the IEEE, are members of the CCC. In order for the IEEE to take full advantage of the benefits offered by the CCC, a code must be added to the bottom of the first page of each paper. The CCC code consists of an identifying number, the year of publication and the applicable copying fee. An detailed illustration of the CCC code appears in Section 3B.

C. Copyright Ownership

Copyright is held by the IEEE itself, not by any of its organizational units, and is administered by the Publishing Services Department at IEEE.

D. Joint Conferences

In the case of some jointly sponsored conferences, IEEE recognizes the right of another qualified sponsor to hold copyright and administer all copyright matters on behalf of the IEEE and its authors. Except in the case of a conference which is incorporated and maintains its own administrative office, a conference is not considered a sponsor and may not hold copyright to IEEE material.

same order in which they are published, and accompanied by a *Table of Contents*.

IEEE
Conference Services Department
445 Hoes Lane, P.O. Box 1331
Piscataway, NJ 08855-1331

B. Coding of Papers for IEEE Sponsored Conferences

The Conference Publication Committee is responsible for adding a line at the bottom of the first page of each paper which makes clear its copyright status for the benefit of future users. The appropriate coding will be determined by the part of the IEEE Copyright Form signed by the author.

PART A - COPYRIGHT TRANSFER FORM

If the paper is copyrightable by the IEEE, in which case the author will have signed Part A, the line will consist of the Copyright Clearance Center (CCC) code and IEEE copyright notice, as illustrated in the following example:

0-1234-5678-9/92/\$3.00 © 1992 IEEE.

where:

0-1234-5678-9 identifies the softbound ISBN.

92 identifies the year of publication.

\$3.00 identifies the IEEE copying fee per copied article.

© 1992 IEEE is the copyright notice. It identifies the year of publication and the entity that holds the copyright.

PART B - U.S. GOVERNMENT EMPLOYEE CERTIFICATION

If the paper is a work of the U.S. Government and hence not copyrightable, the author will have signed Part B. In this instance, the line to be added must read:

U.S. Government work not protected by U.S. copyright.

This Government category, it should be noted, applies only to papers authored solely or entirely by U.S. Government employees as part of their employment. This category does not include, for example, papers where one or more co-authors are not U.S. Government employees, or papers which report U.S. Government-supported work performed by non-Government organizations.

PART C - CROWN COPYRIGHT

If the author (or all authors) of a paper is (or are) employed by a Crown Government (i.e. British, Canadian, etc.), in which case the author will have signed Part C of the IEEE Copyright Form, the line to be used will consist of the Copyright Clearance Center (CCC) code and the appropriate Crown Copyright notice, as illustrated in the following example:

0-1234-5678-9/92/\$3.00 © 1992 British Crown Copyright.

Please note, the appropriate Crown Copyright notice (i.e. British, Canadian, etc.) will be determined by the location of the author's employer (i.e. England, Canada, etc.).

IEEE COPYRIGHT FORM

This form is intended for original, previously unpublished manuscripts submitted to IEEE periodicals and conference publications. *The signed form, appropriately completed, MUST ACCOMPANY any such paper in order to be published by IEEE.* Please read all notes overleaf and keep a copy of both sides for your files.

SIGNED FORM SHOULD
ACCOMPANY MSS. OR BE
SENT TO SAME ADDRESS

TITLE OF PAPER (hereinafter "the work"):

AUTHOR(S)

PUBLICATION TITLE/DATE:

PART A - COPYRIGHT TRANSFER FORM

(Note: Company or other forms MAY NOT BE SUBSTITUTED for this form. WORDING MAY NOT BE CHANGED. U.S. Government employees whose work is not subject to U.S. copyright may so certify by signing Part B below. Authors of works subject to Crown Copyright may sign Part C overleaf.)

The undersigned hereby transfer any and all rights in and to the work including without limitation all copyright rights in the above work to The Institute of Electrical and Electronics Engineers, Inc., known as the IEEE. The undersigned hereby represents and warrants that the work is original and that he/she is the author of the work, except possibly for material such as text passages, figures, and data that are clearly identified as to the original source, with permission notices from the copyright owners where required. The undersigned represents that he/she has the power and authority to make and execute this assignment.

Returned and Retained Rights: In return for these rights, the IEEE recognizes the retained rights noted in Items 1 and 4 below, and grants to the above authors and employers for whom the work was performed royalty-free permission to reuse their material as noted in Items 2 and 3. Item 5 stipulates that authors and employers must seek permission to republish in cases not covered by Items 2, 3, and 4.

1. Employers (or authors) retain all proprietary rights in any process, procedure, or article of manufacture described in the work.
2. Authors/employers may reproduce or authorize others to reproduce the above work, material extracted verbatim from the above work, or derivative works for the author's personal use or for company use provided that the source and the IEEE copyright notice are indicated, that the copies are not used in any way that implies IEEE endorsement of a product or service of an employer, and that the copies per se are not offered for sale. (See "Author/Employer Rights" overleaf .)
3. Authors/employers may make limited distribution of all or portions of the above work prior to publication if they inform the IEEE of the nature and extent of such limited distribution prior thereto.
4. In the case of work performed under a U.S. Government contract or grant, IEEE recognizes that the U.S. Government has royalty-free permission to reproduce all or portions of the above work, and to authorize others to do so, for official U.S. Government purposes only if the contract/grant so requires. (Appropriate documentation may be attached, but IEEE's Copyright Form MUST BE SIGNED. See "U.S. Government Employees/U.S. Government Contract Work" overleaf.)
5. Authors/employers must request permission from the IEEE Copyright Office to reproduce or authorize the reproduction of the work or material extracted verbatim from the work, including figures and tables, for all circumstances not covered by Items 2, 3, and 4.

Please see overleaf for notes on "IEEE Obligations" as copyright holder.

In the event the above paper is not accepted and published by the IEEE or is withdrawn by the author(s) before acceptance by the IEEE, this agreement becomes null and void.

AUTHORIZED SIGNATURE (see over: Author/Employer Rights)

TITLE OF SIGNEE

EMPLOYER FOR WHOM WORK WAS PERFORMED

DATE FORM SIGNED

PART B - U.S. GOVERNMENT EMPLOYEE CERTIFICATION

(Note: If your work was performed under Government contract but you are not a Government employee, sign transfer form above and see Item 4 under Returned and Retained Rights.)

This will certify that *all* authors of the above work are employees of the U.S. Government and performed this work as part of their official duties and that the work is therefore not subject to U.S. copyright protection.

AUTHORIZED SIGNATURE (see over: Author/Employer Rights)

TITLE OF SIGNEE

NAME OF GOVERNMENT ORGANIZATION

DATE FORM SIGNED

Mail for Ruth Wagner

2

Tue, 18 Aug 92 23:01:18 -0700

University of Maryland
College Park, MD 20742
(301) 405-1241

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

August 4, 1992

Dr. R. J. Purdy
Editor for Radar
MIT Lincoln Laboratory
P. O. Box 73
Lexington, MA 02173

Dear Dr. Purdy

Manuscript No.: 92052

I am sorry, but my schedule this summer does not permit a thorough review of the paper.

Sincerely,

Robert J. Marks II
Professor

RJM:rw

Enclosure: Manuscript
Review form

DECISION SYSTEMS
INTERNATIONAL

file
rec'd

October 12, 1992

Dr. Robert J. Marks II
University of Washington
Department of Electrical Engineering, FT-10
Seattle, Washington 98185

Dear Dr. Marks:

Thank you for sending the list of the expenses you incurred during your trip to Madrid. You will receive two checks, one for reimbursement of expenses and one for your honorarium. In answer to your question, there is no need for you to contact anyone else.

If I can be of any help to you please do not hesitate to let me know.

Sincerely,

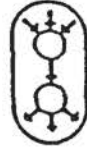
Mary Clarke

Mary Clarke

file



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

July 3, 1992

Peter Wiesner
IEEE Educational Activities Department
P.O. Box 1331
445 Hoes Lane
Piscataway, New Jersey 08550-1331

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

Dear Peter,

As you may recall, the *IEEE Neural Networks Council* was not consulted regarding the IEEE Fuzzy video conference, even though we sponsor the FUZZ-IEEE conference series and will publish the *IEEE Transactions on Fuzzy Systems*. When we brought this to the attention of the EAB, we were told that we would have to pay in order to put a conference ad into the video conference material! Thankfully, you intervened. Even though we were not given the courtesy of being consulted on the project, at least we were able to publicize the technical activities of IEEE in fuzzy systems without being charged.

It's *deja vu* all over again. The attached brochure advertizes the EAB's Virtual Reality Video Conference in September. You, at least, were aware of the Council's activities in VR through conversations with Mohamed El-Sharkawi and me. Again, EAB did not give our Council the courtesy of being consulted on the project. It is clearly too late to provide any input. I ask, though, that we again be given the courtesy of free disbursement of our conference material (two pages) with the conference information sent to each video conference sight, and that the VRAIS conference be announced at the video conference.

I will have a camera ready copy of VRAIS material sent directly to you. Please advise me soon whether the IEEE EAB is able to comply with our request. Thanks for your attention to this.

I look forward to seeing you later this month in Seattle.

Sincerely,

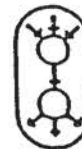
Robert J. Marks II
Past President *IEEE Neural Networks Council*
VRAIS Organizational Chair

cc: Russ Eberhart, NNC President
Tom Furness, VRAIS General Chair
Tom Caudell, VRAIS Program Co-Chair
Blake Hannaford, VRAIS Tutorials Chair
Mohamed El-Sharkawi, NNC Video Tutorials Chair
Nomi Feldman, Meeting Management

file



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

July 3, 1992

Peter Wiesner
IEEE Educational Activities Department
P.O. Box 1331
445 Hoes Lane
Piscataway, New Jersey 08550-1331

Dear Peter,

As you may recall, the *IEEE Neural Networks Council* was not consulted regarding the IEEE Fuzzy video conference, even though we sponsor the FUZZ-IEEE conference series and will publish the *IEEE Transactions on Fuzzy Systems*. When we brought this to the attention of the EAB, we were told that we would have to pay in order to put a conference ad into the video conference material! Thankfully, you intervened. Even though we were not given the courtesy of being consulted on the project, at least we were able to publicize the technical activities of IEEE in fuzzy systems without being charged.

It's *deja vu* all over again. The attached brochure advertizes the EAB's Virtual Reality Video Conference in September. You, at least, were aware of the Council's activities in VR through conversations with Mohamed El-Sharkawi and me. Again, EAB did not give our Council the courtesy of being consulted on the project. It is clearly too late to provide any input. I ask, though, that we again be given the courtesy of free disbursement of our conference material (two pages) with the conference information sent to each video conference sight, and that the VRAIS conference be announced at the video conference.

I will have a camera ready copy of VRAIS material sent directly to you. Please advise me soon whether the IEEE EAB is able to comply with our request. Thanks for your attention to this.

I look forward to seeing you later this month in Seattle.

Sincerely,

Robert J. Marks II
Past President *IEEE Neural Networks Council*
VRAIS Organizational Chair

cc: Russ Eberhart, NNC President
Tom Furness, VRAIS General Chair
Tom Caudell, VRAIS Program Co-Chair
Blake Hannaford, VRAIS Tutorials Chair
Mohamed El-Sharkawi, NNC Video Tutorials Chair
Nomi Feldman, Meeting Management

file



CRC PRESS, INC.

PUBLISHERS SINCE 1913

CRC Press, Inc.
2000 Corporate Blvd., N.W.
Boca Raton, FL 33431, U.S.A.
Telephone (407) 998-2582
FAX (407) 997-7249
FAX (407) 997-0949
Telex 568689

Joel Claypool
Publisher

July 2, 1992

Robert J Marks
Electrical Engineering
Univ Washington
Seattle, WA 98195

Dear Dr. Marks:

CRC Press, publisher of the HANDBOOK OF CHEMISTRY AND PHYSICS, now in its 73rd edition, and the CRC STANDARD MATHEMATICAL TABLES AND FORMULAE, 29th edition, is pleased to announce a major new publishing program in electrical engineering. With over fifty new books, CRC Press is publishing a vast array of titles.

In January 1993, we will publish THE ELECTRICAL ENGINEERING HANDBOOK edited by Richard Dorf. With 228 authors, this will be the most comprehensive and up-to-date reference work for electrical engineers published in decades. As the fastest growing engineering publishing group in the world, we are committed to serving the information resource needs of the electrical engineering community.

If you or any of your colleagues are writing a book, I would like an opportunity to consider it for publication. If you have recommendations of authors, editors or publications, I would be pleased to hear your suggestions. I am particularly interested in new handbooks, advanced textbooks, monographs and software.

For each suggestion that we accept for peer review, you will be entitled to select a complimentary book from our current catalog. I encourage you to submit suggestions for as many projects as you believe worthy of publication. When sending suggestions, please provide a complete mailing address. I look forward to hearing from you in the near future.

Sincerely,

ESSENTIAL INFORMATION FOR PROFESSIONALS

Times Mirror
Books

Technologies: Will You Be Ready?

opportunities – and risks. Will you and your
of the high-impact technologies that will emerge
years? Knowing how computer aids can and will
plan your research and design your products if
new industrial revolution through information
offer greater flexibility and variety in product
plicity to market.
the panel will describe and discuss three aspects
large (factories), and man-in-the-system
sion will be (1) computer aids in engineering and
ufacturing, and (3) computer aids to visualizing
through "virtual reality," with applications for
others.
ual examples and discuss potential applications.
warning" overview, presenting engineers,
ents with a glimpse of tomorrow's workplace in
be commonplace.

**Dr. J. MICHAEL MOSHELL, Director, Visual
Systems Laboratory, Institute for
Simulation and Training, University of
Central Florida, Orlando**

Dr. Moshel's principal research projects
concern applications of virtual
environments to education and training,
and real-time physical simulation in large
networks of graphical simulators.

He is leading the Dynamic Terrain
Project, a US Army-sponsored analysis of
the algorithmic and geometric issues in the
real-time simulation of earthworks
construction and water flow.

**A. RICHARD NEWTON, University of
California, Berkeley**

Dr. Newton has been involved with
research and teaching at Berkeley in the
area of computer aided design for
electronic systems since 1979. He helped
found a number of high technology
companies including SDA Systems (now
Cadence Design Systems) and Synopsis,
Inc. He is an IEEE Fellow and was General
Chair of the 1991 ACM/IEEE Design
Automation Conference.

WEDNESDAY, SEPTEMBER 30, 1992
AN IEEE LIVE SATELLITE VIDEOCONFERENCE
**EMERGING TECHNOLOGIES: WILL
YOUR COMPANY BE READY?**
FEATURING REAL APPLICATIONS IN VIRTUAL REALITY
AGENDA

Featuring Video Footage to
Illustrate Applications in Design,
Manufacturing and Virtual Reality

12:00 - 12:15 PM EASTERN TIME
Introduction LEO YOUNG

12:15 - 12:50
Using Computer Aids for Design
A. RICHARD NEWTON

12:50 - 1:30
Using Computer Aids for
Manufacturing
EUGENE S. MEIERAN

1:30 - 1:35
Break

1:35 - 2:15
Using Computer Aids to Create
Virtual Reality: Visualizing the
Entire System
J. MICHAEL MOSHELL

2:15 - 2:20
Overview LEO YOUNG

2:20 - 2:25
Break

2:25 - 3:00
Q&A
(actual times may vary)

Supporting Documentation
Available:
• Reference Notes
• Presenter's Biographies
• Bibliographies



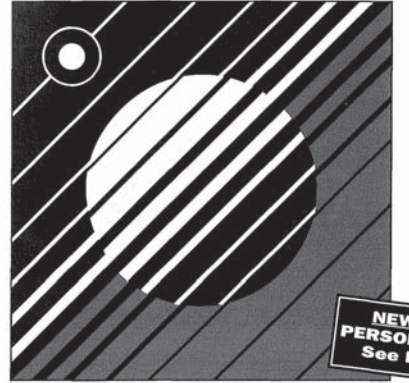
IEEE Educational Activities Dept.
445 Hoes Lane, PO Box 1331
Piscataway, NJ 08855-1331

NON PROFIT ORG.
U.S. POSTAGE
PAID
IEEE
PERMIT #52
PISCATAWAY, NJ



Robert J. Marks II Library Archive

THE 1992 IEEE VIDEO- CONFERENCE PROGRAM



**NEW PER
PERSON RATES
See Inside**

WEDNESDAY, SEPTEMBER 30, 1992
12 NOON - 3:00 PM USA EASTERN TIME
**EMERGING TECHNOLOGIES: WILL
YOUR COMPANY BE READY?**
FEATURING REAL APPLICATIONS IN VIRTUAL REALITY

COURSE OBJECTIVES

- FROM THIS BROADCAST YOU WILL LEARN:
- 1 How computer aids will revolutionize your work place when "virtual reality" brings developing situations to life.
 - 2 About the many applications of virtual reality in design, education, training, medicine, entertainment, economics, and manufacturing.
 - 3 From actual video demonstrations that will illustrate how these computer aids can be used.



IEEE

IEEE Videoconferences bring you the world's leading experts on critical topics in computing and electronics. Broadcast live via satellite throughout North America, into parts of South America and the Caribbean, they provide state-of-the-art information that emphasizes practical engineering applications.

NEW PER PERSON PRICING

Due to the overwhelming demand for this program and the broad range of applications for this technology, IEEE would like to offer new per person rates. This new pricing allows companies and universities to base their costs on a per person basis rather than our traditional site fee. Through this option, IEEE hopes to enable your organization to more easily participate in our live Videoconferences.

PER PERSON RATES:	CORPORATE RATE	UNIVERSITY RATE
1 - 5 attendees	\$100 per person	\$50 per person
6 - 20 attendees	\$80 per person	\$50 per person
21 + attendees	\$60 per person	\$50 per person

1 set of reproducible notes will be provided per site.

Under the per person agreement, it is the obligation of the participating site to report actual attendance **within ten days** of the broadcast date. If no report is issued, the site will be invoiced for 30 attendees.

Companies who have previously contracted for payment based on a site fee may continue to do so. New customers who wish to investigate the corporate site fee of \$1,800 and the university site fee of \$850, contact Judy Brady at (908) 562-3991.

Taping rights are available on a per site basis for sites contracting for live reception only:

	CORPORATE RATE	UNIVERSITY RATE
Taping On-Site	\$400	\$200
Special Offer For 3 or More Videoconferences	\$250	\$150
Taping On-Site	SAVE UP TO \$750	SAVE UP TO \$250

Network Pricing Saves You Money

Per site prices are substantially reduced for corporations and universities licensing more than one site. The more sites on line, the more savings you will receive. Large corporate networks (over 60 sites) may reduce their per site costs by as much as 70%!

Substantial Savings on Taping the Programs

For a small fee, you can tape IEEE Videoconferences on-site if you are a participating live site for the broadcast. Corporations pay only \$400 per program, universities pay \$200 per program. If you tape three or more programs, you save even more.

FREE Promotional Announcement

Local promotion can be inexpensive and simple. Just mark the order form and we will send you our FREE camera ready announcement for this program. You can photocopy or print and post locally to expand your audience.

Upcoming 1992 IEEE Videoconferences

OCTOBER 29, 1992

How Will We Broadcast HDTV?

DECEMBER 3, 1992

Getting Rid of Interference

(Past videoconferences are available)
Robert J. Marks II Library Archive

THE 1992 IEEE VIDEO-CONFERENCE ORDER FORM

FOR FASTEST SERVICE, TEAR OFF AND FAX TO:

IEEE MARKETING DEPARTMENT (908) 981-8062

- Yes, we would like to receive the videoconference "Emerging Technologies: Will Your Company Be Ready?" Please send us a contract at the following rate:
 - Per Person Pricing Corporate rate University rate
 - 1 - 5 attendees \$100 per person \$50 per person
 - 6 - 20 attendees \$80 per person \$50 per person
 - 21 + attendees \$60 per person \$50 per person
 - _____ (number expected) x _____ (rate) = _____
 - (To be adjusted within ten days after broadcast)
- Site Fee Corporate rate: \$1,800 University rate: \$850
- We are also interested in taping the program on-site for the following rate (available to sites receiving live program only):
 - Corporate rate: \$400 University rate: \$200
- Send us the FREE reproducible promotional announcement
- We'd also like to subscribe to these upcoming IEEE Videoconferences:
 - October 29, How Will We Broadcast HDTV?
 - December 3, Getting Rid of Interference
- We would like to receive more information. Please put us on your mailing list.
- Please send me information on past videoconferences now available on tape
- Send us the free 10 minute sample tape and contract

NAME _____
COMPANY _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
PHONE _____ FAX _____

Questions? Call IEEE Marketing
Judy Brady, IEEE Marketing Dept.
445 Hoes Lane, PO Box 1331
Piscataway, NJ 08855-1331
Voice: (908) 562-3991 Fax: (908) 981-8062
Or IEEE Educational Activities Dept.
Dr. Robert Kahrman



Why your organization join us for "Emerging Technologies?"

...ow "virtual reality" and other computer aids electrical engineering, you should receive our

...erts Will Come To Your Site Live
...bring their field tested knowledge live to your
...ions from industry experts will show you the
...he opportunities and risks that will emerge from
...ry and laboratory within the next five years.

...ences Offer Special Features Like These:
...v cost — you can have an unlimited number of
...EE Videoconference on-site
...active 800 number — attendees can call in live

...pecifically prepared to help engineers and technical
...formation is supplied to each site
...es with sophisticated and lively presentations

...n't Need To Own A Satellite Dish
...ces are available on C-band and Ku-band. If you
...y, you are probably ready to receive our broadcasts.
...ite capability now, it's easy to obtain. You can
...rent a dish, rent a facility that has a dish, or obtain
...ur local cable company. Consult your Yellow Pages
...or call me. I can help you evaluate your needs.
...and use the handy order form to sign up today or call
...91.

...inn
...s Via Satellite

...self what our videoconferences are like. Use the
...rm to send for a free 10 minute sample tape.

March 29, 1992

16161 Ventura Boulevard
M/S C-752
Encino, California 91436
(818) 995-6335
Fax (818) 995-2932

Robert J. Marks
University of Washington
Dept EE FT-10
Seattle WA 98195

Re: Intelligent Control: SHORT COURSE

Drs. Hamid Berenji and Jani Yashvant will be teaching their 3-day Intelligent Control: Fuzzy Logic and Neural Networks short course on April 22-24, 1992 in Washington, DC. A brochure is enclosed which describes their course in detail. Participation in a short course is an excellent opportunity to meet in a small group setting with other professionals with similar interests to share ideas and experiences. Please share the following calendar of upcoming courses with others in your department:

04/15-17/92	Integrated System Dynamics	Detroit, MI
04/22-24/92	Plasma Etching:Technologies & Processes	San Jose, CA
04/22-24/92	Intelligent Control: Fuzzy Logic & Neural Networks	Washington, DC
05/20-22/92	NAVSTAR/GPS:Operations & Applications	Monterey, CA
06/10-12/92	Modern Navigation Systems	Washington, DC
06/01-05/92	Airframe Structural Design	Dayton, OH
06/17-19/92	Plasma Etching:Technologies & Processes	Washington, DC
06/17-19/92	NAVSTAR/GPS: Operations & Applications	Washington, DC
07/07-10/92	Error Correcting Codes: Data Storage	Palo Alto, CA
06/24-26/92	Vehicle Dynamics & Active Control	Detroit, MI
07/24-27/92	Chemical Vapor Deposition	Monterey, CA
08/17-21/92	Design Optimization & System Sensitivity	Whistler, BC
08/20/21-92	VDT Workstations: Health, Safety & Productivity	Palo Alto, CA
08/25-28/92	Correlation & Spectral Analysis	Oxnard, CA
09/15-17/92	Linear & Nonlinear System Analysis & Identification	Washington, DC
09/21-24/92	Modern Microwave Techniques	Del Mar, CA
09/24-25/92	VDT Workstations: Health, Safety & Productivity	Washington, DC
9/30-10/2/92	Tire Characteristics & Vehicle Dynamics	Detroit, MI
10/12-14/92	Adaptive ECCM Signal Processing for Radar	Washington, DC
10/14-16/92	NAVSTAR/GPS:Design & Applications	Washington, DC
10/19-22/92	Error Correcting Codes: Communications	Washington, DC
10/26-30/92	Composite Airframe Structures	Dayton, OH
11/11-13/92	Orbital Mechanics:Boost & Space Manuevers	Washington, DC
11/17-19/92	Linear & Nonlinear System Analysis & Identification	Oxnard, CA

UCCE also has over 500 engineering courses available including the courses listed above which can be offered on-site at your facility. To register or request detailed brochures on any of the above courses, call (818) 995-6335 or FAX (818) 995-2932.

Sincerely,

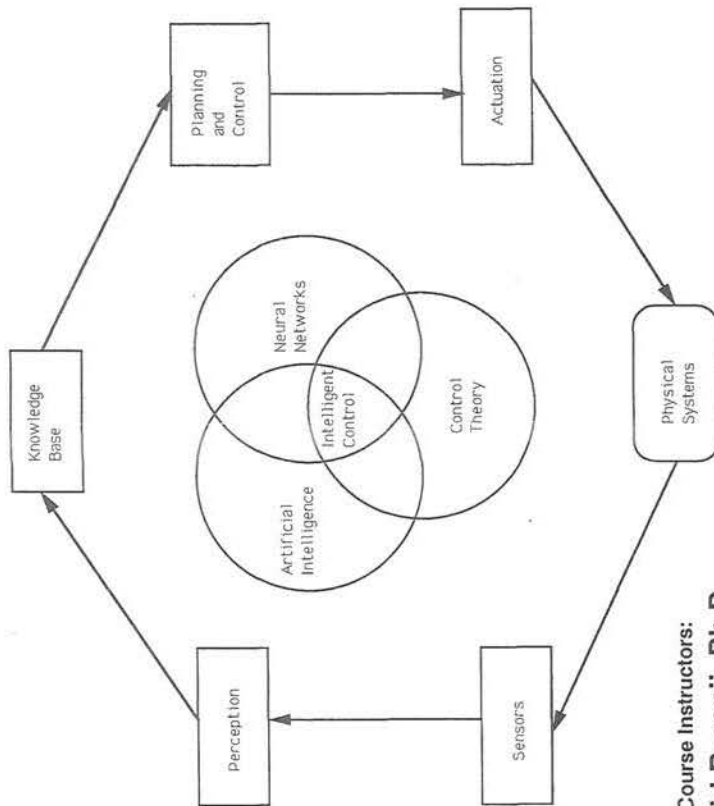

Tom Mincer
Director

file

University Consortium for Continuing Education

Intelligent Control:

Fuzzy Logic & Neural Networks



April 22-24, 1992
 Washington, DC

Short Course Instructors:
Hamid Berenji, Ph.D.
 NASA Ames Research Center
Yashvant Jani, Ph.D.
 Togai InfraLogic, Inc.

Calendar - For detailed brochures or On-Site information, call 818-995-6335.

Modern Microwave Techniques	Adam	03/09-12/92	Palo Alto, CA
Error Correcting Codes/Digital Data Storage	Weldon	03/23-26/92	Washington, DC
Correlation & Spectral Analysis	Bendat/Piersol	03/24-27/92	Cleveland, OH
Integrated System Dynamics	Rosenberg	04/15-17/92	Detroit, MI
Plasma Etching: Technologies & Processes	Salimian	04/22-24/92	San Jose, CA
Intelligent Control: Fuzzy Logic & Neural Networks	Berenji/Yani	04/22-24/92	Washington, DC
NAVSTAR/GPS: Operations & Applications	Wackernagel	05/20-22/92	Monterey, CA
Airframe Structural Design	Niu	06/03-05/92	Dayton, OH
Modern Navigation Systems	Fried	06/10-12/92	Washington, DC
Plasma Etching: Technologies & Processes	Salimian	06/17-19/92	Washington, DC
NAVSTAR/GPS: Operations & Applications	Wackernagel	06/17-19/92	Washington, DC
Error Correcting Codes/Digital Data Storage	Weldon	06/22-25/92	Palo Alto, CA
Vehicle Dynamics & Active Control	Karnopp/Margolis	06/24-26/92	Detroit, MI
Correlation & Spectral Analysis	Bendat/Piersol	08/25-28/92	Oxnard, CA
Orbital Mechanics	Logsdon	08/26-28/92	Washington, DC
Mil-Std-1553	Sutherland	08/27-28/92	Baltimore, MD
Linear & Nonlinear System Analysis & Identification	Bendat	09/15-17/92	Washington, DC
Modern Microwave Techniques	Adam	09/21-24/92	Del Mar, CA
Tire Characteristics & Vehicle Dynamics	Pacejka	09/30-10/2/92	Detroit, MI
Adaptive ECCM Signal Processing for Radar	Nitzberg	10/12-14/92	Washington, DC
NAVSTAR/GPS: Design & Applications	Logsdon	10/14-16/92	Washington, DC
Error Correcting Codes/Communication Systems	Weldon	10/19-22/92	Washington, DC
Composite Airframe Structural Design	Niu	10/26-28/92	Dayton, OH

Enrollment - Call, Mail or Fax To:

Please enroll me in the following course:

Intelligent Control:

Fuzzy Logic & Neural Networks

April 22-24, 1992 Washington, DC

Fee: \$1095

Make checks or purchase orders payable to:
University Consortium for Continuing Education

Name _____
 Title _____
 Company _____
 Company Address _____
 City, State Zip _____
 Telephone Number _____

University Consortium for Continuing Education

16161 Ventura Blvd., M/S 752

Encino, CA 91436

Telephone: (818)995-6335

FAX: (818)995-2932

Bulk Rate
 U.S. Postage
 PAID
 Sun Valley, CA
 Permit No. 8

Intelligent Control: Fuzzy Logic & Neural Networks

Focus

Engineering system intelligence is a new and rapidly growing technology rising from advances and integration of sensor systems, artificial intelligence, VLSI and traditional control functions. Fuzzy logic, a widely used commercial form of AI, is rapidly finding applications in systems which use AI based control for improving system performance. Fuzzy logic is already being applied in the automotive, aerospace, financial, transportation and consumer products industries. This new technology is arriving at a time when there are tremendous advances in material and manufacturing technologies which can be incorporated into the new product designs. Another area benefiting from this new technology is on-board, real time diagnostic/prognostic expert systems which can identify impending hardware failures or adaptively change system configuration using information obtained from condition monitoring sensors. The intelligence gathered can be used to determine remedial action or required configuration changes. This technology will greatly enhance system performance, and improve system life, reliability, and maintainability. Fuzzy logic and neural net based controls provide more and smoother control with less computing, particularly for systems requiring small and rapid adjustments.

Overview

This is a hands on course which discusses the recent techniques developed in the fields of fuzzy logic and artificial neural networks as applied to control of physical systems. The basics of neurocontrol and fuzzy control, as well as the methods that they can complement, the more analytical approaches of control theory, will be discussed. A number of very successful applications of fuzzy control, especially in Japan, has introduced this technology as a practical tool for all engineers involved in the design of control systems and other systems which their designers need to incorporate artificial intelligence. This course will also discuss the recently developed approaches in combining fuzzy control with the reinforcement learning techniques of neural networks. Berenji's ARIC and GARIC architectures will be fully discussed during this course. As part of the hands on experience, the students will work interactively with the most advanced computer software tools available for using this technology. Togai InfraLogic, Inc., an internationally recognized world leader in providing fuzzy logic solutions, will provide this training to the participants. TIL is the premiere US manufacturer of hardware and software products incorporating fuzzy logic, including commercial and OEM products ranging from software development tools to the world's first fuzzy logic chip, the FC110 Digital Fuzzy Processor.

Instructors

Hamid R. Berenji, Ph.D. received M.S. and Ph.D. degrees from USC in 1980 and 1986 in Systems Engineering. From 1984 to 1986, he was an instructor at USC. Since 1986, he has worked in the Artificial Intelligence Research Branch of NASA Ames Research Center. He is currently a Senior Research Scientist with Sterling Federal Systems at NASA Ames and Principal Investigator of the research project on intelligent control. He has been program committee member of several conferences such as the 1991 IEEE International Symposium on Intelligent Control. He has organized and chaired the intelligent control sessions at the 1990 Control and Decision Conference in Hawaii and the 1991 American Control Conference in Boston. He was also the co-organizer and co-chairman of the session on intelligent control in manufacturing at the 1991 Control and Decision Conference in Brighton, UK. He is an executive program committee member of the 1992 IEEE International Conference on Fuzzy Systems and will chair the learning control session in this conference. His current research is focused on intelligent control as it relates to neural networks, approximate reasoning, fuzzy control, and uncertainty management in AI.

Yashwant Jani, Ph.D. is a vice-president of the Technology Systems Division of Togai InfraLogic, Inc. He holds Masters degrees in nuclear physics and physics/math and a Ph.D. in Physics from University of Texas at Dallas. He has supported Shuttle and Space Station programs for more than 12 years in various roles at Johnson Space Center. He has also participated in Mars Rover/Sample Return mission, Shuttle-C, and OMV studies. He has spent many years developing fuzzy logic applications for space operations with NASA and others. His expertise also include expert systems development, spacecraft guidance, navigation, mission planning, and autonomous orbital operations. He is a recognized expert on fuzzy logic applications to control processing. His current work is focused on fuzzy control, adaptive fuzzy, fuzzy and Neural network as applied to learning and decision making, and uncertainty management in space operations.

Who Should Attend

System designers, engineers and managers who wish to utilize intelligent control into their systems will benefit from attending the course. Also, anyone involved with sensor components, systems integration, data classification and a pattern recognition will find the course useful.

Course Outline

Fundamentals of Intelligent Control

- Artificial intelligence and control
- Hierarchical control
- Learning control systems

Fuzzy Set Theory and Fuzzy Logic Control

- Fundamentals of fuzzy set theory
- Fuzzy set theory vs. probability theory
- Designing a fuzzy logic controller
- Knowledge representation in fuzzy logic control
- Fine-tuning a fuzzy logic controller

Applications of Fuzzy Logic Control

- Aircraft flight control
- Robot control
- Automobile transmission control
- Automatic train control
- Helicopter control
- Fuzzy logic hardwares and computer chips

Fuzzy System Identification

Structure Identification of FLCs

Stability Analysis of FLCs

Introduction to Artificial Neural Networks

- Neurons and perceptrons
- Multi-layer neural networks
- Error Backpropagation Method
- CMAC neural networks
- Reinforcement learning

Introduction to NeuroControl

- Reinforcement learning in control
- CMAC applications in control
- Adaptive control using neural networks

Hybrid Neural Network and Fuzzy Logic Controllers

- Fuzzy logic control and backpropagation
- Fuzzy logic control and reinforcement learning
- Approximate Reasoning-based Intelligent Control (ARIC):
 - Single-layer neural nets (ARIC architecture)
 - Multi-layer neural nets (GARIC architecture)

Hands on Training

Hardware Overview of TIL Products

- FC110 Digital Fuzzy Processor
- Board Solutions: AT, VME, SBus
- Stand alone, Single Board Fuzzy Controllers, and custom design chips

Software Overview of TIL Products

- Software Methodology and Fuzzy Programming Language
- Graphical TILShell, TILGen and TILChart
- Fuzzy Developmental Systems: Fuzzy-C, FC110 and Micro FPL
- Special example of Hitachi Micro FPL
- Fuzzy CLIPS phase I development

Applications Examples Using TIL

- Attitude and Translational Controllers
- Camera Tracking System
 - System design
 - MBF and rulebase design
 - Test cases
 - Testing in software simulation
 - Performance analysis
 - Tuning of MBF
 - Tuning of rulebase
 - Analysis of results
- Mars Rover Trajectory Control and Collision Avoidance

Course Summary Information

Date: April 22-24, 1992
Days: Wednesday - Friday
Time: 8:30 a.m.-5:00 p.m.
Fee: \$1095
Units: 2.1 CEU's
Number: 385.04
Hotel: Holiday Inn Governor's House
City: Washington, DC

General Information

Hotel: The Holiday Inn Governor's House is located at 17th Street & Rhode Island Avenue, N.W., Washington, DC 20036. Telephone: 800-821-4367. For hotel reservations, call the hotel directly and request the UCCE group rate.

Course Fee and Payment: The course fee includes tuition, course materials and refreshments. Checks or purchase orders should be made payable to the University Consortium for Continuing Education.

Pre-enrollment: Enrollment is limited. Registrants should pre-enroll by telephone to reserve space.

Discounts: Group discounts are available upon request and when pre-registered at the same time. Discounts are as follows: 3-5=10%, 6-10=20%, 11+=30%.

Refund: The course fee (less a \$50 processing fee) will be refunded if cancellation is received at least one week prior to the start of the course. Substitutes may be made at any time.

Site

RESEARCH/TECHNOLOGY DEVELOPMENT AGREEMENT
Between
American Pioneer, Inc.
and
The Washington Technology Center

This Agreement is entered into as of the _____ day of _____, 1992 by and between The Washington Technology Center, an agency of the State of Washington headquartered at the University of Washington, 300 Fluke Hall, FJ-15, Seattle, Washington 98195 (hereinafter "WTC") and American Pioneer, Inc., having a place of business at 4775 Ballard Ave. NW,; Seattle, WA 98107, (hereinafter "Company").

WTC represents a industry-university initiative to focus the resources of the State's research universities and industry on the creation of commercially promising new technology;

Company desires to sponsor certain research (hereinafter the "Project") under the direction of WTC key personnel (hereinafter the "Project Participants");

WTC plans to conduct the Project and to grant certain rights to Company upon the terms and conditions set forth below;

NOW, THEREFORE, in consideration of the above and the mutual covenants, terms, and conditions set forth below, WTC and Company agree as follows:

Part A. RESEARCH PROJECT

1. **Scope of the Project.** The WTC will conduct Project as described in the proposal entitled Development of a Hydroacoustic Fish Size and Species Identification System for Quantitative Stock Assessment and Efficient Harvesting dated June 5, 1992, hereinafter the " Proposal"), a copy of which is attached and incorporated by this reference. The Project will be carried out substantially in accordance with the Work Statement and Schedule contained in the Proposal, and the results will be delivered in the form of a final report. The Project may be extended under mutually acceptable terms by the written agreement of Company and WTC.

2. **Key Personnel.** The Project Manager will be Robert M. Fisher, Univ. of Washington, who shall select and supervise other Project Participants, as needed. Other persons can be substituted for the Project Manager by WTC with approval of Company. Other Key Personnel are: Nathan Roundy, President, American Pioneer; Robert Marks II, Univ. of Washington; Seho Oh, Univ of Washington.

RESEARCH/TECHNOLOGY DEVELOPMENT AGREEMENT (Con't.)

3. **Control of Project.** Control of the Project will rest entirely with WTC as exercised by the Project Manager. It is agreed that WTC, through the Project Manager, will maintain continuing communication with a designated liaison for Company. The reporting frequency shall be no less than twice per year and reporting shall be accomplished by written reports and/or meetings with Company. Company's advisory role is expected to include recommendations to accelerate efforts in more promising areas or to discontinue fruitless efforts. Title to all equipment, materials and supplies purchased by WTC under the Project shall vest in WTC upon purchase.

4. **Project Performance Period.** The Project performance period will be from a beginning date of June 1, 1992, to an ending date of December 31, 1992, during which time this Agreement will be in force. This period may be amended by mutual agreement in writing by authorized representatives of WTC and Company.

5. **Funding and Payment.** In consideration of WTC's conducting the Project, Company shall pay WTC the fixed amount of \$3000.00, payable in 3 equal payments of \$1000.00 each; the first payment being payable upon execution of this Agreement and quarterly thereafter. Company's checks should be payable to the University of Washington and sent to:

Director, Grant and Contract Accounting, ND-22
University of Washington, Seattle, WA 98195.

Part B. PROPRIETARY RIGHTS

1. **Definitions.**

1.1 **Intellectual Property** shall mean any improvements, discoveries, inventions, patents, patent applications, patent disclosures, copyrights, semiconductor chip registrations, source code, object code, documentation, data, processes, computer projects, or other know-how in tangible form which is conceived, first reduced to practice or first represented in a tangible form by Key Personnel during the course of, and as a direct result of, the Project.

1.2 **Background Rights** shall mean unpatented, unpatentable, uncopyrighted and/or uncopyrightable information, discoveries, data, processes, computer projects, source code, object code, documentation or

RESEARCH/TECHNOLOGY DEVELOPMENT AGREEMENT (Con't.)

other know-how in tangible form necessary to be employed in the Project, not arising directly from the Project, but to which the WTC has acquired rights based on the results of WTC efforts separately from and prior to the Project. Background Rights shall not include any inventions, discoveries or information which are subject to any contractual obligation between the WTC and any third party.

1.3 **Exclusive License** shall mean a license to Company under which its rights in the Field of Use are sole and entire and operate to exclude all others, including the WTC, subject to rights reserved to the United States Government (under Public Law 98-620), and to the retained right of the WTC and the University of Washington to make and use, but not to sell Licensed Products and Licensed Processes for research purposes.

1.4 **Licensed Products and/or Processes** shall mean products and/or processes that embody Intellectual Property.

1.5 **Field of Use** shall be limited to application of computational intelligence (e.g., neural networks) applied to underwater sonar echoes for the identification of fish size and species, fish habitat including seabed characteristics and plant life, and navigation for stock assessment and efficient harvesting.

1.6 **Territory** shall mean worldwide.

2. **Disclosure.** Within six (6) weeks after receipt by WTC from the Project Manager or Participants of a formal disclosure of an invention or copyrightable work included in Intellectual Property (hereinafter the "Invention Disclosure"), WTC shall disclose or shall cause individuals participating in the Project to disclose directly to Company, in reasonable written detail, information relating to such Invention Disclosure.

3. **Proprietary Information.** Company and WTC agree to assure reasonable protection of proprietary information to the extent that such proprietary information is disclosed to it in any form by the WTC and/or the Project Manager/Participants. Proprietary information of Company disclosed under this Agreement shall be covered by separate confidentiality agreements with specific individuals rather than with the WTC.

RESEARCH/TECHNOLOGY DEVELOPMENT AGREEMENT (Con't.)

4. **WTC Ownership.** Company agrees that expertise of WTC, Intellectual Property, Background Rights, and computational intelligence information (other than information owned by Company), shall be owned and controlled by WTC and may be used by WTC outside the Field of Use on other projects with third parties, without further obligation to Company, except as stated under B.1.2 above and 5.3(4) below. Sublicensing shall be covered by the terms and conditions of a separate license agreement.

5. **Option.**

5.1 **Option Grant.** In consideration of Company's financial support of the Project, WTC grants to Company an option to obtain a royalty-bearing exclusive license to make, have made, use, and sell Licensed Products and Licensed Processes in the Field of Use in the Territory, upon such terms and conditions as may be agreed upon by the parties in a separate license agreement (hereinafter the "License Agreement").

5.2 **Option Exercise.** Company must exercise its option to license, if at all, by providing written notice to WTC of such exercise within six (6) months of WTC's disclosure of information pursuant to Part C, paragraph 2.

5.3 **License Negotiation.** In the event that Company exercises this option, WTC and Company agree to negotiate in good faith the terms and conditions of a License Agreement, which shall include terms and conditions customary in the industry for such agreements, and which will provide, among other terms and conditions, that:

(1) *Royalty.* Company, and or its manufacturing associates, will pay to WTC an amount of thirty dollars (\$30.00) for every system that is sold that embodies the fish identification system associated with this Project up to a total of 1,000 units, or, \$30,000.

(2) *Reporting.* Unit sales figures will be reported on a quarterly basis by Company to WTC beginning May 1, 1993.

(3) *Commercialization.* 1,000 units will be sold within 3 years from the completion date of Project, unless Company can reasonably demonstrate

RESEARCH/TECHNOLOGY DEVELOPMENT AGREEMENT (Con't.)

to WTC that the economic climate or the emergence of strong technical competition is particularly unfavorable to Company's marketing efforts.

(4) *Background Rights.* Where applicable and to the extent necessary for Company to make, have made, use or sell Licensed Products or to practice Licensed Processes under the License Agreement, and to the extent not in conflict with any third party agreement with WTC, WTC may grant to Company under the License Agreement a non-exclusive, non-transferable, right under Background Rights.

(5) *Sublicenses.* Sublicenses shall be covered separately (i.e., th right to sublicense shall be separately negotiated.)

(6) *Termination of Option.* In the event that a formal License Agreement has not been executed by the parties within three (3) months from the date of exercise of the option by the Company under Part C, paragraph 3.2, the option may terminate at WTC's sole discretion and Company shall have no further rights to a license under the Intellectual Property hereunder. The WTC may grant an extension of this three (3) month period to enable the parties to finalize the License Agreement if, in WTC's sole judgment, an extension is warranted under the circumstances in existence.

6. Product Warranty. Licensed Products and/or Processes commercialized by Company upon completion of this Project carry no warranties whatsoever from WTC, including no express or implied warranties of merchantability or fitness of the products for any particular purpose.

7. Indemnification for Products. Company agrees to indemnify, hold harmless and defend WTC and the UW, its officers, employees and agents against any and all claims, suits, losses, damages, costs and fees and expenses resulting from or arising out of the manufacture, possession, use, sale or operation of the Licensed Products and/or Processes derived from this Project by Company, its customers in any manner whatsoever, including, but not limited to any damages, losses or liabilities whatsoever with respect to death or injury to any person or damage to any property.

Part C. GENERAL

RESEARCH/TECHNOLOGY DEVELOPMENT AGREEMENT (Con't.)

1. **Publication.** WTC reserves the right to publish the results of all research by Project Participants under this Agreement. In order to protect any material of a proprietary nature which may be included in any proposed publication, WTC shall provide Company with a copy of any proposed publication resulting from the Project at least thirty (30) days prior to submission for publication. At WTC discretion, Company may be granted delay of the proposed publication for a period not to exceed six (6) months from the date of submission of the paper to Company, provided that Company provides to WTC an explanation for its reason to delay, in writing within thirty (30) days following the date of submission of the paper to Company.

2. **Use of Name/Publicity.** WTC, UW and Company each agree that they will not use the name, trademark, or other identifier of the other for any advertising, promotion, publicity or commercially related purposes except with advance written approval of the other party. To the extent required by WTC Board of Directors, WTC Committees, WTC policies and procedures or by law, WTC may indicate that this Agreement exists, may disclose the terms of the Agreement and may use the names The Washington Technology Center and Company solely to describe the relationship between the WTC and Company established by this Agreement. To the extent required by law and in a form previously approved in writing by the WTC, Company may indicate in any investment offering circulated by Company that this Agreement exists, may disclose the terms of this Agreement, and may use the names The Washington Technology Center and University of Washington solely to describe the relationship between the WTC and Company established by this Agreement.

3. **Insurance.** The WTC, as associated with the University, is self-insured. The University fully prefunds its anticipated losses of self-insurance Projects through the establishment of actuarially determined self-insurance reserves. These reserves are deposited in a statutorily created and regulated fund (see RCW 28B.20.253) and can only be expended for payment of claim costs and related expenses. Over and above the self-insured Project, the University has purchased for the 1991-1992 fiscal year a Commercial Umbrella Liability policy with limits of \$15,000,000 per occurrence and aggregate. These self-insured and commercially insured coverages apply to all University of Washington Projects and activities.

RESEARCH/TECHNOLOGY DEVELOPMENT AGREEMENT (Con't.)

4. **Hold Harmless.** Each party to this Agreement agrees to defend, indemnify and hold harmless the other party from damage to persons or property resulting from the willful or negligent acts or omissions of its employees, agents, or officers. Neither party assumes any responsibility to the other party for consequences of any act or omission of any person, firm or corporation not a party to this Agreement. (Per Risk Management Office 11/08/88).

5. **Export Controls.** Company understands that WTC is subject to United States laws and federal regulations controlling the export of technical data, computer software, laboratory prototypes and other commodities (including the Arms Export Control Act, as amended, and the Export Administration Act of 1979), and that WTC's obligations hereunder are contingent upon compliance with applicable United States export laws and regulations. The transfer of certain technical data and commodities may require a license from a cognizant agency of the United States Government and/or written assurances by Company that Company shall not transfer data or commodities to certain foreign countries without prior approval of an appropriate agency of the United States Government. WTC neither represents that a license shall not be required, nor that, if required, it shall be issued. WTC is not presently aware of interest by the federal government to Intellectual Property.

6. **Termination.** Either WTC or Company may terminate this Agreement by giving sixty (60) days' written notice to the other. In the event of such termination, WTC will cease further obligation of funds and will take all reasonable steps to cancel or reduce outstanding obligations. Company will pay its share of current expenditures.

7. **Amendments.** Any amendments to this Agreement must be in writing and signed by authorized representatives of both WTC and Company.

8. **Miscellaneous.**

(a) **Entire Agreement.** This Agreement constitutes the entire agreement between the parties and supersedes all previous representations, understandings, or agreements, oral or written, between the parties with respect to the subject matter hereof.

RESEARCH/TECHNOLOGY DEVELOPMENT AGREEMENT (Con't.)

(b) **Governing Law and Jurisdiction.** The rights and obligations of the parties under this Agreement shall be governed by and construed in accordance with the laws of the State of Washington, and, at the option of WTC, venue of the legal or equitable action shall lie in King County, the State of Washington. Company hereby accepts the venue and jurisdiction of the Federal District Court of Western Washington or King County Superior Court located in Seattle, Washington, at WTC's option, and hereby agrees to accept service of process by certified mail, return receipt requested, effective upon delivery to Company.

(c) **Assignment and Binding Effect.** Neither party may transfer or assign its rights or obligations under this Agreement, except as provided herein or with the written consent of the other party. WTC shall have the right to assign this Agreement to the University of Washington or a related organization, upon written notice to Company. This Agreement shall inure the benefit of and be binding upon each of the parties hereto and their respective permitted successors and assigns.

(d) **Waiver.** No provision of this Agreement shall be deemed to have been waived by any act of or acquiescence on the part of either party. A waiver may only occur in writing signed by an authorized representative of the party waiving the particular provision involved. No waiver of any provision of this Agreement shall constitute waiver of any other provision or of the same provision on any other occasion.

(e) **No Partnership or Agency.** The parties agree that the relationship between the parties established by this Agreement does not constitute a partnership, joint venture, agency, or a contract of employment between them.

(f) **Amicable Settlement.** Company and WTC agree that, in the event of a dispute between them arising from, concerning, or in any way related to this Agreement, the parties shall undertake good faith efforts to resolve the matter amicably between themselves.

(g) **Attorney's Fees.** In the event an action is commenced to enforce a party's rights under this Agreement, the prevailing party in such action shall be entitled to recover its reasonable costs and attorney's fees.

RESEARCH/TECHNOLOGY DEVELOPMENT AGREEMENT (Con't.)

(h) **Notices.** Unless otherwise specified under this Agreement, any and all notices, requests, or demands permitted under this Agreement shall be made in writing and shall be deemed to have been given or made when delivered in person, sent by same day or overnight courier, or deposited in the United States certified registered mail, return receipt requested, postage prepaid, addressed to the party at its address as the same appears below, or at such other address as the parties subsequently may furnish to the other party by notice hereunder.

NOW, THEREFORE, Agreement of WTC, and Company to the terms stated above is indicated by signatures affixed below.

THE WASHINGTON TECHNOLOGY CENTER

COMPANY

By: _____

By:  _____

Dr. Robert E. Center

Nathan Roundy

Printed Name

Executive Director

~~President~~ **INVENTOR**

Title

Date: _____

Date: JULY 20, 1992

Concurrence: Robert M. Fisher

Robert Marks II



Address and Telephone:

The Washington Technology Center
U of W Campus Office, FJ-15
Seattle, WA 98195
Tel: (206) 685-1920

American Pioneer, Inc.
4775 Ballard Ave. NW
Seattle, WA 98107
Tel: (206) 789-7053.

ATTACHMENT: (1) Proposal

American Pioneer

file

4775 Ballard Avenue NW • Seattle, WA 98107-4810 USA
Telephone (206) 789-7053 • Fax (206) 782-2887

HELP WANTED - PROGRAMMERS

A small Ballard sonar manufacturer needs help with state-of-the-art new fish finding sonar design.

DSP / NEURAL NETS

Analog Devices 2101

MICRO CONTROLLERS

8051 - 6502

PC

ethernet, interface, graphics

GRAPHICS

color video imaging

Contact: Nathan Roundy at American Pioneer

206-789-705

or

Dr. Robert Fisher at the U.W.

206-543-2913

*SUMMER
FALL QUARTER
TUITION REBATE
POSSIBLE.*

File

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

*Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842*

June 11, 1992

Mr. Nathan Roundy, President
American Pioneer Inc.
4775 Ballard Avenue NW
Seattle, WA 98107

Dear Nathan:

This is to confirm that Dr. Seho Oh and I will be pleased to serve as consultants on the SBIR project that you and Bob Fisher are submitting to NSF under the Ocean Sciences topic. The proposed development of a portable fish and sea bed classification device for assessing and mapping the fish population in important coastal and inland waters is a logical extension of our recently-funded joint program aimed at producing an on-board species identification system for commercial fishermen.

As you propose, our primary function will be to tailor the application of user-friendly neural network self training protocols for this purpose as well as defining methods that are used for terrain classification that are suitable for identifying echoes from the sea bed.

The proposed budget for consulting services is quite appropriate. Very best wishes for success with your proposal.

Sincerely yours,

Robert J. Marks II
Professor

cc: Dr. Seho Oh
Sally Jandrall - WTC

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

June 11, 1992

Mr. Nathan Roundy, President
American Pioneer Inc.
4775 Ballard Avenue NW
Seattle, WA 98107

Dear Nathan:

This is to confirm that Dr. Seho Oh and I will be pleased to serve as consultants on the SBIR project that you and Bob Fisher are submitting to NSF under the Ocean Sciences topic. The proposed development of a portable fish and sea bed classification device for assessing and mapping the fish population in important coastal and inland waters is a logical extension of our recently-funded joint program aimed at producing an on-board species identification system for commercial fishermen.

As you propose, our primary function will be to tailor the application of user-friendly neural network self training protocols for this purpose as well as defining methods that are used for terrain classification that are suitable for identifying echoes from the sea bed.

The proposed budget for consulting services is quite appropriate. Very best wishes for success with your proposal.

Sincerely yours,

Robert J. Marks II
Professor

cc: ✓ Dr. Seho Oh
Sally Jandrall - WTC

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

June 11, 1992

Mr. Nathan Roundy, President
American Pioneer Inc.
4775 Ballard Avenue NW
Seattle, WA 98107

Dear Nathan:

This is to confirm that Dr. Seho Oh and I will be pleased to serve as consultants on the SBIR project that you and Bob Fisher are submitting to NSF under the Ocean Sciences topic. The proposed development of a portable fish and sea bed classification device for assessing and mapping the fish population in important coastal and inland waters is a logical extension of our recently-funded joint program aimed at producing an on-board species identification system for commercial fishermen.

As you propose, our primary function will be to tailor the application of user-friendly neural network self training protocols for this purpose as well as defining methods that are used for terrain classification that are suitable for identifying echoes from the sea bed.

The proposed budget for consulting services is quite appropriate. Very best wishes for success with your proposal.

Sincerely yours,

Robert J. Marks II
Professor

cc: Dr. Seho Oh
✓ Sally Jandrall - WTC

Wood 5

DRAFT

EE Dept. letterhead

June 10, 1992

Mr. Nathan Roundy
President
American Pioneer Inc.
4775 Ballard Ave. NW
Seattle WA 98107

Dear Nathan

This is to confirm that Dr. Seho Oh and I will be pleased to serve as consultants on the SBIR project that you and Bob Fisher are to submitting to NSF under the Ocean Sciences topic. The proposed development of a portable fish and sea bed classification device for assessing and mapping the fish population in important coastal and inland waters is a logical extension of our recently-funded joint program aimed at producing an on-board species identification system for commercial fishermen.

As you propose, our primary function will be to tailor the application of user-friendly neural network self training protocols for this purpose as well as defining methods that are used for terrain classification that are suitable for identifying echoes from the sea bed.

The proposed budget for consulting services is quite appropriate. Very best wishes for success with your proposal.

Very truly yours

Robert Marks II
Profesor of Electrical Engineering

cc Dr. Seho Oh
Sally Jandrall WTC

Bob Fisher
3-2913

file



CRC PRESS, INC.

PUBLISHERS SINCE 1913

CRC Press, Inc.
2000 Corporate Blvd., N.W.
Boca Raton, FL 33431, U.S.A.
Telephone (407) 994-0555
Telex 568689
FAX (407) 997-7249
FAX (407) 997-0949

9 June 1992

Professor Robert J. Marks
University of Washington
Department of Electrical Engineering
Seattle, WA 98195

Dear Prof. Marks:

I would like to thank all contributors who have submitted articles for inclusion in *The Electrical Engineering Handbook*. To date we have received over 90 percent of the total papers for the handbook and we are right on schedule for a January 1993 publication date. The papers received, barring none, are excellent.

I am urging all contributors who have not yet submitted papers to do so as expeditiously as possible. It is very important to receive any outstanding papers within the next two weeks in order to meet the rigorous deadlines within our production schedule and ensure a January 1993 publication date. If you have not yet submitted your paper, please call me at (407) 994-0555 extension 2353.

This is an exciting and challenging project for CRC Press. We are anxiously looking forward to its publication and many future revisions of this greatly needed handbook. Thank you again for all of your help and cooperation. Best wishes.

Sincerely,

A handwritten signature in cursive script that reads "Kristen Peterson".

Kristen Peterson
Developmental Editor

ESSENTIAL INFORMATION FOR PROFESSIONALS

Times Mirror
Books

File

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-6990 (office), 543-6061 (secretary),
543-2150 (main office), 776-8995 (home), 543-3842 (FAX).
marks@milton.u.washington.edu

June 27, 1992

Dr. Robert Spence, Chair, ISCAS '94
Department of Electrical Engineering
Imperial College of Science, Technology & Medicine
Exhibition Road
London, SW7 2BT
ENGLAND
FAX 01 589 8125

Dear Dr. Spence,

I write in regard to the 1994 ISCAS in London. The choice of London for the conference is, I believe, superb. I have little doubt the conference will be a huge success.

I will be Chairing the 1995 ISCAS in Seattle. I would like to volunteer to participate in the 1994 ISCAS in a way that would allow a smooth transition to the 95 conference. Involving future Chairs in current ISCAS's provides a valuable continuity between the conferences.

I plan to invite the 1996 ISCAS Chair to be an *ex officio* member of the '95 organizing committee. I submit that this might be a good role for me in your organizing committee. The choice, of course, is yours.

I look forward to hearing your thoughts on the matter.

Sincerely,



Robert J. Marks II, Chair
1995 ISCAS, Seattle

cc: R.W. Liu, CAS Vice President for Conferences

file

The Electrical Engineering Handbook

A CRC Press, Inc. Publication

Editor-in-Chief
Richard C. Dorf

June 15, 1992

Department of Electrical and
Computer Engineering
University of California
Davis, CA 95616

Professor Robert Marks
Univ. of Washington
Dept. of Electrical Engineering
Seattle, WA 98195

(916) 752-7395

(916) 752-8428 Fax

Dear Professor Marks:

We are in receipt of your contribution to the Electrical Engineering Handbook. Thank you for your excellent submittal.

For this project we have over 240 articles and 220 authors on board. We are sure you will be impressed to find yourself in such good company!

The Handbook is well into the production stage. CRC Press may be contacting you in the future to seek necessary permissions or discuss submitted materials. Kristen Peterson, Development Editor for the Electrical Engineering Handbook, is responsible for production.

Your submission was accepted for inclusion in the Handbook, however, upon review we have found that some information was missing. Therefore, we request that you provide the following missing items:

Defining Terms
Further Information


Please refer to your authors kit for examples of the required items. We also enclose a good example of the *Defining Terms* and *Further Information* sections from IEEE's *Spectrum*. This outline format will facilitate easy, quick reference for the reader.

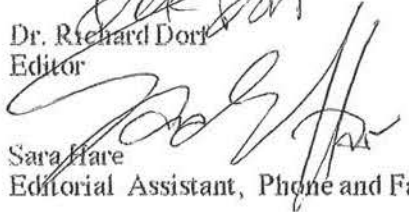
To complete your submission please send the above items at your earliest convenience to:
Kristen Peterson, CRC Press, 2000 Corporate Blvd., NW, Boca Raton, FL, 33431.

If there are any questions regarding why the above information is still required, please don't hesitate to contact either of us by phone or fax.

Thanks very much for your prompt attention to these items and thanks for contributing to the Electrical Engineering Handbook. We hope it will be a valuable reference for the field.

Sincerely,


Dr. Richard Dorf
Editor


Sara Hare
Editorial Assistant, Phone and Fax (707) 939-1603

File

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

*Department of Electrical Engineering, FT-10
Telephone: (206) 543-6990 (office), 543-6061 (secretary),
543-2150 (main office), 543-3842 (FAX).
marks@milton.u.washington.edu*

June 28, 1992

Lindsay Scott
Energy Management Associates
100 Northcreek, Suite 800
Atlanta, GA 30327

Dear Lindsay,

I have sent you, under separate cover, some reprints of articles concerning application of computational intelligence to power systems. Many of these papers were co-authored by Dr. D.C. Park. I mention this, because Dr. Park is much closer to you than I. He is a Professor at Florida International University in Miami where is is working with a Florida utility of load forecasting using artificial neural networks.

Dr. Park's phone number is 305 348 3704. You might find a call to him fruitful.

Sincerely,



Robert J. Marks II
Professor

cc: Prof. D.C. Park

file

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

5500 WABASH AVENUE
TERRE HAUTE, INDIANA 47803



(812) 877-1511
FAX (812) 877-3198

June 2, 1992

Dr. Robert J. Marks II
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195


Dear Bob,

I don't know why it takes so long to get a check written, but enclosed is the reimbursement for your travel to Terre Haute. I hope you haven't been inconvenienced by the delay.

It really was great to see you and listen to you. You certainly made a fine impression on everyone—which doesn't surprise me too much. The five of you who were selected this year gave the best presentation we have ever had. I regret only that there weren't a lot more students in attendance.

Thank you so much for coming and I hope you can make it back before another ten years. We will be watching your progress (and smiling!).

Sincerely,


Alfred R. Schmidt
Professor of Mathematics

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-6990 (office), 543-6061 (secretary),
543-2150 (main office), 776-8995 (home), 543-3842 (FAX).
marks@milton.u.washington.edu

May 29, 1992

Kristen Peterson
Developmental Editor
CRC Press
2000 Corporate Blvd., NW
Boca Raton, FL 33431

Dear Ms. Peterson,

Enclosed is my contribution. I used LaTeX, so the format should be easily adapted to what you require. I queried your office concerning use of LaTeX, and was told it was acceptable.

The floppy disc is an ASCII file on DOS. The figure was generated using Autosketch.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Marks II', with a long horizontal flourish extending to the right.

Robert J. Marks II
Professor

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

May 11, 1992

Doug Vogt
12433 Bel-Red Road, Suite F
Bellevue, WA 98005

Dear Mr. Vogt:

Enclosed is a parking pass and a University map for your meeting with Profs. Soma, Marks, and Zick on Monday, May 18. The meeting is scheduled for 2 pm in the Conference Room across from Prof. Zick's office, 111 Wilson Ceramic Laboratory. Should you need it for any reason, his telephone number is 543-6156.

Sincerely,



Ruth A. Wagner
Secretary to Prof. Marks

Enclosures

file

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-6990 (office), 543-6061 (secretary),
543-2150 (main office), 776-8995 (home), 543-3842 (FAX).
marks@milton.u.washington.edu

May 11, 1992

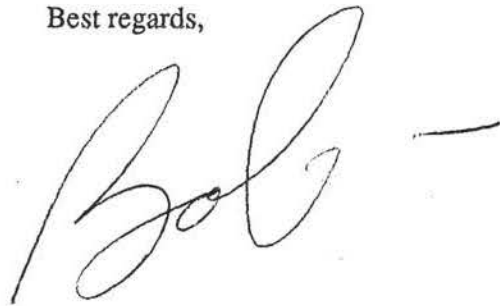
Bryan Taylor, Publications
Rose-Hulman Institute of Technology
5500 Wabash Ave.
Terre Haute, Indiana 47803

Dear Bryan,

Thanks for all the kind words in the article. I enclose a marked version. All comments concern accuracy.

As an expression of appreciation, I enclosed is a copy of my cartoon book. I hope you enjoy it.

Best regards,

A handwritten signature in cursive script, appearing to read 'Bob', followed by a horizontal line.

Robert J. Marks II
Professor



ROSE-HULMAN
INSTITUTE OF TECHNOLOGY

FACSIMILE TRANSMISSION COVER SHEET

TO: FAX NUMBER 206-543-3842

DATE: 5/12/92 NUMBER OF PAGES: 5
(Including Cover Sheet)

TO: Dr. Robert Marks

FROM (*): Bryan Taylor, Publications

SUBJECT: Echec, article

DELIVER TO: Robert Marks

MESSAGE/COMMENTS:

Dear Bob,

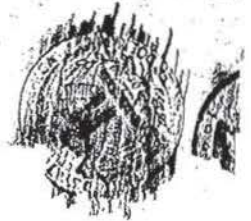
Here is a draft of your article.

Please read it and make any necessary corrections. You can send it back to me: Bryan Taylor, Publications, Rose-Hulman Institute of Technology, 5500 Wabash Avenue, Terre Haute, IN 47803, or you can FAX it back to 812-877-8362. Thanks.

Bryan

IF YOU DO NOT RECEIVE ALL THE PAGES LEGIBLY, PLEASE CALL 812-877-1511 AND ASK FOR THE SENDER (*), OR FAX US BACK 812-877-8362 AS SOON AS POSSIBLE. THANK YOU.

5500 Wabash Avenue, Terre Haute, Indiana 47803



①

DRAFT COPY FOR ECHOES ALUMNI TABLOIDON THE MARKS

Robert J. Marks II thrives in higher education, but don't go building him any ivory towers. He is not one to limit his activities to his lab.

The 1972 electrical engineering graduate is a teacher, researcher, editor, businessman, song writer and cartoonist. In his spare time, he was able to return to campus this spring to receive a Distinguished Young Alumnus award.

Teaching and research anchor Marks in his position as professor of electrical engineering at the University of Washington.

"I like the interaction with students," Marks said. "I like their exuberance, especially at the undergraduate level. Graduate students act stuffy and make sure you are impressed by them."

"Exuberance" is the feeling Marks carries over to his research activities: "I love the discovery process of invention... the brainstorming and seeing it put into application. There's a certain intangible feeling a person gets on creation. It's a feeling of accomplishment. One of the things that drives human nature is the ability to conduct a job well done. It's the carrot that keeps many of us going."

Research, Marks believes, must be accountable and applicable.

These days, Marks focuses his discovery in the area of artificial neural networks. Neural networks ~~use photos~~ ^{are} to develop highly connected systems patterned after the neuron networks in the human brain. To envision how a neural network operates, Marks says to envision a

2

board with thousands of dots on it and then connecting those dots with lines so they all talk together.

The concept of artificial neural networking first came about during the 1940s, but it only boomed in the last 10 years because of technology advances.

Neural networks learn by example. They gain wisdom through experience, Marks said.

Examples of neural networking applications include predicting loads for power companies; work with speech recognition; detecting plastic explosives at airports; and grading meat quality in slaughterhouses.

Marks likes to see his work applied beyond the halls of academia. He applies his work through two of his own companies. One is Multi Dimensional Systems Corporations. It develops and licenses algorithms for time frequency measurements. ^{Marks is also a part owner of} ~~The other company is~~ Financial Neural Networks. ^{This company's focus} ~~is~~ is developing the use of neural networks to predict stock market activity. ^{OK}

In addition to his own ventures, Marks consults with other businesses, and he holds two patents in the area of neural networks.

Marks believes higher education will have to interface more with business and industry. "In the U.S., we're seeing a shift from government-sponsored research," Marks said. "Research universities are going to have to interface more with industry. Professors are going to have to be a little less ivory tower and more cognizant of what's going on in the business world."

Such awareness has a two-fold purpose, according to Marks. It will benefit students in the classroom with real-world applications, and it will help professors raise necessary research dollars.

core curriculum

3.

As far as actual classroom changes in two decades, Marks said the only significant change has been the increased dependence on the computer as a tool in engineering education. "Otherwise, the fundamentals are pretty much the same," he said. "The first courses electrical engineering students take today contain roughly the same material I took at Rose-Hulman."

On the personal side of life, Marks continues two hobbies -- cartooning and song writing -- he started as a student at Rose-Hulman. His cartooning graced the pages of the *Technic* and the *Thorn*. Today, he limits his cartooning to caricatures of his colleagues at faculty meetings. Song writing continues to be a creative outlet. Using a guitar, Marks has penned songs for a variety of occasions. He has written a song for his wife and each of his three children.

Music has been a continued interest for Marks. During his student days, he worked for the campus radio station. He even helped spearhead an "underground" program on Terre Haute station WPFR during his Rose-Hulman graduate studies in 1972-73. Music that hit the airwaves via Marks' show included Led Zepplin, Frank Zappa, Janis Joplin and Jefferson Airplane.

After obtaining his master's in electrical engineering in 1973, Marks went to work for the Crane Naval Weapons Support Center as a reliability engineer.

In 1975, Marks returned to higher education to obtain a Ph.D. in electrical engineering from Texas Tech University. After completing his doctorate work in 1977, Marks went to the University of Washington and has been there ever since.

During his career, Marks has published over 100 journal and proceeding papers in the areas of signal analysis, detection theory, signal

4

recovery, optical computing, signal processing, fuzzy systems and artificial neural processing.

Honors that have come Marks' way include being named a fellow in the Optical Society of America and being named an IEEE Distinguished Lecturer. Active in IEEE, he is the editor of IEEE Transactions on Neural Networks, and he was co-founder of the IEEE Circuits & Systems Society Technical Committee on Neural Systems & Applications.

Marks is co-founder of the Christian Faculty Fellowship at the University of Washington and he serves as faculty adviser to the college's Campus Crusade for Christ.

UNIVERSITY OF WASHINGTON *trans*
DEPARTMENT OF ELECTRICAL ENGINEERING FT-10
SEATTLE, WASHINGTON 98195 USA

FAX: (206) 543-3842

FAX Cover Sheet

ATTENTION: Miss Wilma Tsang
NAME OF FIRM: University + Polytechnic Grants Committee
LOCATION: Hong Kong
FAX TELEPHONE NUMBER: 852 845 1596 or 852 5268436
FROM: Robert J. Marks PHONE: 543 - 206 543 6
This transmission, including this cover page, contains 4 pages
DATE: June 1, 1992 TIME: 9³⁰ am

Please call (206) 543-6061 if you do not receive all of the pages.

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

May 26, 1992

Miss Wilma Toong
University and Polytechnic Grants Committee
Suite 202, 2/F, Hutchison House
10 Harcourt Road
Hong Kong

FAX: 845 1596

Dear Miss Toong:

Please send me the material I am supposed to review. I will try to review it within a week of receipt.

Sincerely,

A handwritten signature in black ink that reads "Robert J. Marks II". The signature is written in a cursive style with a large, sweeping initial "R". There is a small mark below the "II" that looks like a stylized "w" or "m".

Robert J. Marks
Professor

大學及理工教育資助委員會
香港夏愨道十號
和記大廈二樓二〇二室



UNIVERSITY AND POLYTECHNIC
GRANTS COMMITTEE
Suite 202, 2/F, Hutchison House,
10 Harcourt Road, Hong Kong.

本署檔號 OUR REF.: UPGC/FIN/71/9/91 II

來函檔號 YOUR REF.:

電話 TELEPHONE: 524 3971

14 April 1992

電報掛號 TELEGRAPHIC ADDRESS:
'UGRANTS HONG KONG'

傳真機號碼 FAXLINE NO.: 845 1596

Prof ROBERT J MARKS
EE Department, University of Washington
1131 199th St. S.W.
Seattle, WA 98036-7138
U.S.A.

Dear Sir/Madam,

I wrote to you sometime ago inviting you to be our assessor, together with copies of the research project(s) and assessment forms. As I have not heard from you since I wonder whether you have received the documents. Please let me know the position (preferably by fax).

Fax no. : (852) 845 1596 or (852) 526 8436

Tel no. : (852) 524 3971

Yours faithfully,

A handwritten signature in cursive script, appearing to read 'Wilma Toong'.

(Miss Wilma Toong)
for Secretary
Research Grants Council

WT/sw

file



STATE OF WASHINGTON
OFFICE OF THE GOVERNOR

OLYMPIA
98504-0413

BOOTH GARDNER
GOVERNOR

May 20, 1992

Mr. Douglas Vogt
President
Vector Graphics Supply, Inc.
12433 Bel-Red Rd., Suite F
Bellevue, WA 98005

Dear Mr. Vogt:

Thank you for recommending Robert Marks for appointment to the Washington Technology Center Board of Directors. I appreciate your interest in suggesting good candidates and assure you that your comments will be given careful consideration.

I have asked my assistant for Boards and Commissions to take responsibility for your recommendation. If additional information is needed, she will be contacting you.

Once again, thank you for your interest and for advising me of your endorsement.

Sincerely,

Booth Gardner
Governor

BG:AT06

file

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-6990 (office), 543-6061 (secretary),
543-2150 (main office), 776-8995 (home), 543-3842 (FAX).
marks@milton.u.washington.edu

May 4, 1992

Prof. Alfred R. Schmidt
Rose-Hulman Institute of Technology
5500 Wabash Avenue
Terre Haute, Indiana 47803

Dear Professor Schmidt,

My visit to Rose-Hulman was delightful. It was good to see you again. Despite all of the wonderful changes at Rose, there still remains the foundation and atmosphere I remember. The more things change, the more they stay the same.

Thank you *very* much for coordinating the reimbursement of my travel. It will help much more than you realize. Enclosed is the original for my ticket (\$520).

Best personal regards



Robert J. Marks II
Professor



J.D. Cook Travel

801 2nd Avenue - Suite 1117
 Seattle, WA 98104
 (206) 447-2667 • 1-(800) 547-1555
 FAX No. (206) 467-9007

MARKS/ROBERT MR INVOICE NO. 23645

UNIVERSITY OF WASHINGTON
 DEPT. OF E.E. FT-10
 SEATTLE WA 98195

DATE: APR 24 1992 CORPORATE I.D.# UNIVOFWA

AIRLINE	FLT	CL	DATE	FROM	TO	LV	AR	ST
NORTHWEST	986	Y	1MAY	SEATTLE	MEMPHIS TENN	705A	120P	OK
				FRI 320 NONSTOP	BREAKFAST			
NORTHWEST	881	Y	1MAY	MEMPHIS TENN	INDIANAPOLIS	250P	409P	OK
SEAT 21B				FRI 095 NONSTOP				
NORTHWEST	863	Y	3MAY	INDIANAPOLIS	MEMPHIS TENN	1250P	214P	OK
SEAT 12C				SUN 72S NONSTOP				
NORTHWEST	987	Y	3MAY	MEMPHIS TENN	SEATTLE	245P	516P	OK
				SUN 320 NONSTOP	SNACK			

AIR FARE 472.72 TAX 47.28 TOTAL 520.00

INVOICE NUMBER 23645 TOTAL INVOICE \$520.00
 PAYMENT - AX3787 436919 52005 EXP 1092

MARKS/ROBERT MR TICKET 0127705181023
 THANK YOU FOR CHOOSING J D COOK TRAVEL

MEMBER
ASTA
 American Society
 of Travel Agents

TERMS: NET 7 DAYS

JDOT 201-R1291

ITINERARY

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

5500 WABASH AVENUE
TERRE HAUTE, INDIANA 47803



(812) 877-1511
FAX (812) 877-3198

20 April 1992

Dr. Robert J. Marks III
1131 199th St. SW
Lynwod, WA 9806

Dear Bob ,

I really am looking forward to seeing you again in just a short time. I happen to have had a complete list of your "collected works" as derived from a library search and when I saw the large ad by Springer (as I recall) in the SIAM journal about your book I sent a copy of all of it to Buck Brown, the Chairman of EE. The only question which looms large is when do you have time for yourself and your family?? Your record is certainly outstanding.

The reason for this letter is to let you know that I am aware that college professors do not have the nice expense accounts available to corporate managers. So, President Hulbert has approved our paying your travel expense to Rose for the May 2 occasion. Please bring with you a copy of your expenses so that I might submit a check requisition to reimburse you..

Before long, we can renew acquaintances and we can learn more of your success. Take care.

Sincerely,

A handwritten signature in cursive script, appearing to read "A. Schmidt".

Alfred R. Schmidt
Profesor of Mathematics

Bob

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

5500 WABASH AVENUE
TERRE HAUTE, INDIANA 47803



(812) 877-1511
FAX (812) 877-3198

April 9, 1992

TO: Jerry W. Bissey
Dave Burgner
Mark M. Campbell
Robert J. Marks II ✓
Mark T. Owens

FROM: Ron Reeves *Rm*

SUBJECT: Change of Schedule for Saturday, May 2, 1992

- * 10:00 a.m. - Coffee Reception - Reading Room
(Hulman Union)
- * 11:00 p.m. - Panel Discussion
Distinguished Young Alums
(GM Room - Old B-119 in Moench Hall)
- * 12:15 p.m. - Lunch - Performing Arts Room
(Hulman Union)
- 5:30 p.m. - Reception (Hulman Union)
- 6:00 p.m. - Honors Banquet

Please send me the names of guests you will have at lunch and the banquet. (Due to a large crowd at the banquet we would ask that you limit guests to three or four.) Thank you.

Hotel room for Bob: Boston Connection
(812) 235-3333

file

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

5500 WABASH AVENUE
TERRE HAUTE, INDIANA 47803



(812) 877-1511
FAX (812) 877-3198

13 March 1992

Dr. Robert J. Marks III
1131 199th St. SW
Lynwod, WA 9806

Dear Bob ,

I was delighted when Ron Reeves told me you can be here in May as one of the Outstanding Young Alumni for this year. The schedule of events is:

Friday, May 1:

If you can be here during the day (or even the afternoon), Buck Brown, chairman of the EE department, wants you to meet with the faculty and some of the students (he will write to you explaining what he has in mind).

Saturday, May 2:

11:00 am brunch with the other four alumni (and spouses) and with the four Outstanding Teachers—and, of course with some of us old-timers from the faculty and staff.

12:30 pm Panel Discussion (by Outstanding Young Alumni) for students & parents .

5:30-6:00 Reception (in the Hulman Memorial Union)


6:00-8:00 Honors Banquet (at which time Outstanding Young Alumni will be recognized as well as those students receiving recognition)

8:00 (if you choose to attend) a drama, the musical "Pippin", presented by the Rose Drama Club.

We would like to have from you as soon as convenient a photo, your vita, and please tell us (1) where was your hometown when you were a student and from which high school did you graduate, (2) in what activities did you participate as a students, and (3) (if you recall) how did you happen to choose to attend Rose. We will prepare a little brochure advertising the Panel Discussion to the staff and students and we want to include the description of your background and your progress to date. (We want to gloat over your success, actually!) Please send this material directly to me.

Bob, I really am glad you are being recognized on this occasion, and look forward to seeing you again. Until then,

Sincerely,


Alfred R. Schmidt
Professor of Mathematics

919-481-4269

LaserWriter II NTX

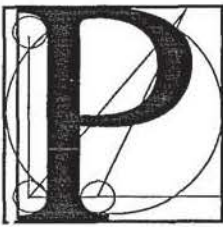


L A S E R W R I T E R[®] I I N T X

*Left afternoon
Rose Show
Art fest
6:00
Awards
Banquet
Drama Club
@ 8:00*

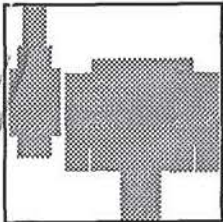
*Sat. May 2
(3)
11:00
Brunch
Disting Young
Alumni
Parents
Weekend
Awards
Outstand
12:30 Panel
5 min Talk
(Grad from Rose)
Ask questions*

*Dinner
Saturday
Friday*



*al Schmidt
Official
Chair*

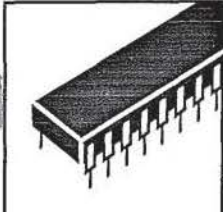
PostScript[®]



RS-232 9600 Baud
RS-422 9600 Baud



35 fonts in ROM



2MB RAM

Dave Piker

Motel

*T T N
10:30
12:20
Apr 1*

5249



J.D. Cook Travel

801 2nd Avenue - Suite 1117
Seattle, WA 98104
(206) 447-2667 - 1-(800) 547-1555
FAX No. (206) 467-9007

1992 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

MARKS/ROBERT MR

INVOICE NO.

23645

UNIVERSITY OF WASHINGTON
DEPT. OF E.E. FT-10
SEATTLE WA 98195

DATE: APR 24 1992

CORPORATE I.D.#

UNIVOWA

AIRLINE	FLT	CL	DATE	FROM	TO	LV	AR	ST
NORTHWEST	986	Y	1MAY	SEATTLE	MEMPHIS TENN	705A	120P	OK
				FRI 320 NONSTOP	BREAKFAST			
NORTHWEST	881	Y	1MAY	MEMPHIS TENN	INDIANAPOLIS	250P	409P	OK
SEAT 21B				FRI D95 NONSTOP				
NORTHWEST	863	Y	3MAY	INDIANAPOLIS	MEMPHIS TENN	1250P	214P	OK
SEAT 12C				SUN 72S NONSTOP				
NORTHWEST	987	Y	3MAY	MEMPHIS TENN	SEATTLE	245P	516P	OK
				SUN 320 NONSTOP	SNACK			

AIR FARE 472.72 TAX 47.28 TOTAL 520.00

INVOICE NUMBER 23645

TOTAL INVOICE

\$520.00

PAYMENT - AX3787 436919 52005 EXP 1092

MARKS/ROBERT MR

TICKET

0127705181023

THANK YOU FOR CHOOSING J D COOK TRAVEL

TERMS: NET 7 DAYS

JDCT 201-R12/91



ITINERARY

file

4597 MacArthur Blvd, NW
Apt #1
Washington, DC 20007

Dr. Robert J. Marks II
Interactive Systems Design Laboratory
220 Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Washington, May 6, 1992

Dear Bob,

I am writing to you as a follow up of the applications to Ph.D. programs. PennState has provisionally accepted my candidacy. ("Provisionally" because they still need my GRE results before they will fully accept me in the program.)

I would like to thank you for writing the letters of recommendation : they helped me to put one foot in the doorway.

I can see two reasons for the cautious decisions taken by these institutions. The first one is that my grades from IRESTE were not in a system that these institutions were used to seeing for judging students. (French marks usually range from 0 -very bad- to 20 -excellent- and, at IRESTE, the grades are curved so that the classroom average is about 10 ; a linear translation -0 to 4.0- poorly grades a good class.) The second comes from the fact that the Service of Immigration and Naturalization had not released my new status of "Permanent Resident", which cancels all visa requirements and allows me to work in the U.S., (I basically have the same rights as a U.S. citizen but I cannot vote) by the time these institutions had to make a decision on students' acceptances.

There are reasons behind the selection I made of each Establishment. Should I really explain why M.I.T. ? Well, M.I.T. was a challenge ; a "why not" case ; a dream. After all, if one never asks, one never gets ! The University of Illinois (Urbanana-Champaignonthehouseforeverybody) selection was so for two reasons : I have friends in this region of the U.S. and the reputation of the University in the field of Computer Science. PennState was the "Back-up" choice ; with the advantage of being not too far from DC, where my wife (I did not get used to writing this word yet) studies (Georgetown University).

Recently, the cards have changed : I have been notified of my military draft by the French Army, asking me to be ready by December 31, 1992 (even though I am a "Permanent Resident" in the U.S. and married to a U.S. citizen, I remain a French citizen and have to comply with the demands of my State). This is no time to laugh, Bob ; this is serious.

I did not lose any time and have been looking for LEGAL exits to this problem since then. Here is what I have found.

To make a long story short, it is possible in the eyes of the French Government to accomplish a 16 month Military Service as a Research Assistant in a U.S. State University under some conditions. Here is the exhaustive list. These are relevant points from a form whose photocopy is included in this letter (1) :

- 1) The University must agree to pay the "V.S.N." (2) a monthly stipend of 6972.44 French Francs (roughly \$1,268 per month). This sum is stipulated by a French Government Degree and is subject to revision by ministerial decision up until the first day of employment. This stipend will be rendered in dollars at the prevailing exchange rate,
- 2) The university authorizes the "V.S.N." to spend 8 hours/week promoting exchanges between the American and French scientific communities,
- 3) The university agrees to provide Blue Cross/Blue Shield medical insurance for the "V.S.N."

The positive side of this solution is that it would allow me to reach my goal (study for a Ph.D. while being a Research Assistant) without losing more time than I already have, be even more motivated (any failure means a one way trip to France and spend the rest of my duty in a military base shooting at my roommates in an open field, charming !) and do my military service. The disadvantage is that PennState will not commit itself to such an important program without knowing the student academically and personally VERY WELL.

As you imagine, Natana and I have talked quite a lot about the situation. The job I am currently working at offers some interesting possibilities for using neural networks in signal and image processing. Unfortunately, my colleagues can't quite seem to appreciate this. Therefore, I am left with many new and interesting ideas and no way to test them out. I am finding myself more interested in pursuing these ideas than in continuing with the old methods used at this company because I believe it is the key to the future in this field. I want to be a part of that future. I have reconsidered my specialization (originally I was going to study Computer Science) and have decided to pursue Signal & Image Processing with Fuzzy Systems and Neural Networks (Electrical Engineering) with a possible look at the improvement of communication systems (especially coding, detection & decoding). I would be honored if you accept being my mentor for my Ph.D. at the University of Washington.

We have also found out that the U. of W. has a very good program in Middle Eastern History ; Natana's specialization. So we could be together Ph.D. students at the University of Washington.

Bob, I know that you have already done a lot for me and I thank you. I would like you to do what you think is best. If it is not possible, please say so. Thank you.

If you agree, a letter of recommendation must be sent as soon as possible to the department in charge of the Fall admissions (3) for Graduate Studies in Electrical Engineering at the U. of W., and we have until the end of July to

submit a file to the French Embassy in Washington, DC, which would contain the following documents :

- 1) A one page description of the project, which must be extensive enough to last for 16 months,
- 2) "A letter of recommendation from a Professor/Director (...) with whom the V.S.N. has already worked as a Research Assistant,"
- 3) "A letter from the University giving its agreement to accept the V.S.N. during the 16 months as a Research Assistant,"
- 4) the completed "Position offer for a 'VSN' Volunteer in the French National Service in the United States" form. (I am enclosing a copy to you so that you can see what all is required. If you are willing to be my mentor, I will send you an original of the form.)

The end of July is the very latest date by which this file must be completed, as I am required to begin my military service no later than February 1. I could certainly begin working on the research project before then, but it would not count towards the military service prior to February 1. This means that we would need to select a project which would require until June 1 of the following year to complete.

Sincerely,



Christophe F. Bas

- (1) There are other conditions but they do not apply since I have been living in the U.S. for more than 6 months.
- (2) V.S.N. : Volontaire Service National. It means that instead of doing a regular Military Service, these guys choose to do something more interesting. The drawback is that the V.S.N. lasts longer.
- (3) The admission for fall quarter was May 1st, but according to Michelle, by sending a letter of recommendation NOW the file could be processed with the others. This also allows me to have time to receive the Application, fill it in and send it back in (almost) decent time.

General conditions for the appointment of a "V.S.N." for 16 months

- 1 - The university agrees to pay the V.S.N. a monthly stipend of 6972.44 French Francs. This sum, having been stipulated by a French Government decree, is subject to revision by ministerial decision up until the first day of employment. This stipend will be rendered in dollars at the prevailing exchange rate.
- 2 - The university authorizes the V.S.N. to spend 8 hours/week promoting exchanges between the American and French scientific communities, in liaison with the Science Counselor of the Embassy of France.
- 3 - The university agrees to pay the round-trip air fare for the V.S.N. and 280 lbs. of luggage.
- 4 - The university agrees to provide Blue Cross / Blue Shield medical insurance for the V.S.N.
- 5 - The university pledges moreover to follow the necessary procedures in order to obtain the J1 visa for the V.S.N., especially the filing of the IAP 66 form.

I, the undersigned, hereby pledge to employ the above named "V.S.N." in my institution provided that the French Ministry of Foreign Affairs approves his appointment. I have read and understood the conditions of said approval.

Date

Signature

University Stamp :

Washington, june 1991

Position offer for a "V.S.N." Volunteer in the French National Service in the United States

(Please type your answers)

Host institution

Name :

Complete address :

Phone Number :

Fax Number :

Advisor's name :

The candidate

Name :

Permanent address :

Phone Number :

Fax Number :

Diplomas :

Current academic curriculum :

The position

Proposed research activity and/or teaching activities (if applicable) :

Desired starting date :

file

Dr. Ilya Rybak
1343 Unruh Avenue
Philadelphia PA 19111

Tel.: (215) 742-3168

March 22, 1992

Professor Robert Marks II
Dept. of Electrical Engineering
University of Washington
MS FP 10
Seattle, WA 98195

Dear Professor Robert Marks II,

My name is Ilya Rybak. Until quite recently I lived in the USSR and worked at the Institute of Neurocybernetics at Rostov State University (Rostov-on-Don, Russia). The area of my research included study and modeling of neural networks, visual perception, image processing and recognition as well as applications to artificial vision based both on neural network and behavioral approaches.

I have recently moved to the USA for permanent residence and now I am looking for a position in the field of my scientific interests. Professor Witali Dunin-Barkowski gave me your address and advised to appeal to you. I would be very grateful to you for any help or advice.

I attach my curriculum vitae and list of my publications.

Looking forward to your reply, I remain,

Sincerely yours,

Ilya Rybak

Ilya Rybak

CURRICULUM VITAE

I L Y A A. R Y B A K
1343 UNRUH AVE.
PHILADELPHIA, PA 19111
Tel.: (215) 7423168

SUMMARY: *Scientist with fifteen years of research and development experience in the field of modeling of natural and artificial neural networks, visual perception and image recognition.*

EXPERIENCE:

1991 **FACULTY OF SCIENCES AT UNIVERSITY OF LE HAVRE, FRANCE.**

Developed Franco- Soviet Research Project on Modeling of Biological Vision and Application to Robot Artificial Vision in cooperation with Professor Alain Faure.

1977 - 1991 **INSTITUTE OF NEUROCYBERNETICS AT ROSTOV STATE UNIVERSITY, ROSTOV-ON-DON, USSR :**

1987 - 1991 **Head of Laboratory of Neural Network Modeling in Vision Research.**

Managed several research projects devoted to study and modeling of structural and functional organization of the visual cortex, to development of models of visual image perception, processing and invariant recognition. Defined the objectives of the projects and conceived the main ideas. Responsible for development of model algorithms, planning of physiological experiments and analysis of their results.

Supervised a task team of 3 - 4 programmers and 1 - 2 physiologist-experimenters.

1984 - 1986 **Head of Neural Network Modeling Group.**

Project Leader of research project devoted to development and investigation of a neural network system with supervised learning. Responsible for development of algorithms and for analytical investigations.

Supervised a task team of 3 programmers.

1982 - 1984 **Lecturer with Biological Dept of Rostov State University.**

Subject: *Methods of Mathematical Modeling for Biology.*

1977 - 1983 **Senior Researcher, Researcher.**

Carried out the research devoted to single neuron. Studied interactions between metabolic processes of a neuron and its functional parameters.

PUBLICATIONS: Papers : 53 (35 in Russian, 18 in English)
Patents: 2
The list of papers and patents is attached.

EDUCATION:

- 1988 **Ph.D.** (Candidate of Science in USSR)
Leningrad State University, Leningrad.
Area of specialization: *Biophysics*.
Dissertation thesis: *Study of Response Dynamics and Orientation
Selectivity of the Visual Cortex Neurons by Mathematical Modeling
Methods and by Neurophysiological Experiments.*
- 1975 **M.S.** in Electrical Engineering
(Diploma in Electrical Engineering in USSR):
1972 - 1975 Odessa Polytechnic Institute;
1966 - 1969 Ryasan Radiotechnic Institute.
- 1965-1966 Mathematical High School at Moscow State University.

REFERENCES:

- Professor Robert Hecht-Nielsen
Chair of the Board, HNC Inc,
5501 Oberlin Drive
San Diego, CA 92121-1718, USA.
Tel.: (619) 5468877
- Major Steven K. Rogers
Ph.D., Associate Professor
Dept. of Electrical and Computer Engineering
Air Force Institute of Technology
Wright-Patterson AFB, OH 45433, USA.
Tel.: (513) 2259266
- Professor Alain Faure
University Professor, Director of Lab. of Analysis and Control of
Systems
Faculty of Sciences, University of Le Havre
Place R. Schuman, 76610 Le Havre, FRANCE.
Tel.: 35 47 28 47
- Professor Mirco Novak
Editor-in-Chief of Int. J. Neural Network World,
Director of Inst. of Comp. and Inform. Sciences
Pod vodarenskou vezi 2, 182 07 Prague 8, CSFR
Tel.: (00422) 8152080
- Professor Witaly L. Dunin-Barkowski
Director of Institute of Neurocybernetics
Rostov State University
194/1 Stachka Ave., Rostov-on-Don 344104 USSR.
Tel.: (8632) 280588

LIST OF PAPERS

In Russian:

1. V.N.Efimov, I.A.Rybak (1979) Modeling of neural structures with signal-energetic interactions. In *The Problems of Artificial Intelligence*. Elista, 53-63.
2. I.A.Rybak, A.V.Golovan (1979) Neural networks with signal-energetic interactions. In *Inst. Scient. Techn. Inform. USSR*, N4336-79, 1- 24.
3. V.N.Efimov, I.A.Rybak (1979) Neural structures with signal and energetic connections interacting with environment. In *Self-Organization and Adaptive Information-Controlling Systems* Moscow, 101-107.
4. V.N.Efimov, I.A.Rybak (1980) Modeling of a neural structure with signal-energetic interactions. In *The Problems of Neurocybernetics*. Rostov-on Don, 17-18.
5. I.A.Rybak, N.V.Voronova, Y.L.Bereznyak (1980) A model of the pair of a neuron and a glial cell. In *The Problems of Neurocybernetics*. Rostov-on-Don, 40-41.
6. A.B.Kogan, V.N.Gusatinsky, V.N.Efimov, I.A.Rybak (1980) Study of the neuron as a system of biochemical processes with signal-energetic interactions. In *Proc. Eighth All-Union Conf. Biochem. Nerv. Syst.*, Minsk, 75-76.
7. I.A.Rybak, T.M.Bogatyryova (1980) On modeling of the modification of neuron's excitability determined by the set of postsynaptic membrane receptors. In *Inst. Scient. Techn. Inf. USSR*, N5221-80, 1-12.
8. V.N.Efimov, I.A.Rybak, Y.L.Bereznyak (1982) Study and modeling of energetic processes which provide stability of the generator mechanism of the stretch receptor. In *Proc. First All-Union Biophys. Congr. Vol.II*, Moscow, 106.
9. V.N.Efimov, T.M.Bogatyryova, I.A.Rybak (1983) Modeling of the modification of the synaptic strength as an evolutionary process. In *The Problems of Neurocybernetics*, Rostov-on-Don, 263.
10. I.A.Rybak, A.A.Chumachenko (1983) On the role of aerobic glycolysis in the mechanisms of neuron activity. In *The Problems of Neurocybernetics*, Rostov-on-Don, 273-274.
11. N.A.Voronova, I.A.Rybak, A.A.Chumachenko (1983) Study of some aspects of relations between energetic metabolism and functional parameters of a nervous cell. In *Inst. Scient. Techn. Inform. USSR* N336-83, 41-54.
12. I.A.Rybak, A.A.Chumachenko, N.A.Voronova (1983) Relation between metabolic processes and modification of neuron's functional parameters. In *Proc. Ninth All-Union Conf. Biochem. Nerv. Syst.* Erevan, 312.
13. A.V.Golovan, I.A.Rybak (1985) Modeling of a learning neural structure interacting with environment. In *Methodology of the Systems Studies*. Moscow, 72-73.
14. V.N.Efimov, I.A.Rybak, A.V.Golovan, N.A.Shevtsova (1985) Mathematical modeling of neural organization of the striate cortex. In *Proc. All-Union Sump. "Vision in Animals and Robots"* v.2. Vilnius, 48.
15. V.N.Efimov, I.A.Rybak, N.V.Voronova, T.M.Bogatyryova (1985) Mathematical modeling of synaptic modification determined by change of postsynaptic membrane receptors. In *Physiology and Biochemistry of Mediator Processes.*, vol.1, Moscow, 119.

16. G.G.Krasinskaya, I.A.Rybak, N.A.Shevtsova (1986) Modeling of mechanisms of information processing in a screen-type neuron structure. In *The Mechanisms of Integration of Biological Systems*. Rostov-on-Don, 144-145.
17. A.V.Golovan, V.G.Markarov, I.A.Rybak (1986) Mathematical modeling of feature extraction in the process of image analysis. In *The Mechanisms of Integration of Biological Systems*. Rostov-on-Don, 146-147.
18. A.V.Golovan, I.A.Rybak, V.N.Efimov (1986) A neural structure learning by reinforcement. In *Proc. All-Union Conf. "Bionics and Biomedical Cybernetics - 85"* Leningrad, Vol. "Bionics", 31-33.
19. I.A.Rybak, N.A.Shevtsova, V.N.Efimov (1986) Modeling of neuronal organization of the primary sensory cortical areas. In *Proc. All-Union Conf. "Bionics and Biomedical Cybernetics - 85"* Leningrad, Vol. "Bionics", 91-92.
20. A.B.Kogan, I.A.Rybak, A.V.Golovan, N.A.Shevtsova, V.N.Efimov (1986) Modeling of learning system with behavior formed by neural screen mosaic. In *Inst. Scient. Techn. Inform. USSR, N 6104-B86*, 1-35.
21. G.G.Krasinskaya, I.A.Rybak (1987) The neuron assemblies in the screen-type structures of the visual cortex. Mathematical modeling. In *The Mechanisms of Integration of Biological Systems*. Rostov-on-Don, 192-194.
22. I.A.Rybak, N.A.Shevtsova, L.N.Podladchikova, A.V.Golovan, V.G.Markarov (1987) Modeling and study of response dynamics and of mechanisms of sensory information primary processing in screen-type neural structures. In *Inst. Scient. Techn. Inform. USSR, N 1657-B87*, 1-51.
23. V.M.Sandler, N.A.Shevtsova, I.A.Rybak. (1988) Primary image processing by a neuron-like network. In *The Mechanisms of Integration of Biological Systems*. Rostov-on-Don. 147-149.
24. I.A.Rybak. (1988) Study of response dynamics and orientation selectivity of the visual cortex neurons by mathematical modeling methods and by neurophysiological experiments. Diss. thesis. Leningrad.
25. I.A.Rybak, L.N.Podladchikova, N.A.Shevtsova, A.V.Golovan. (1988) Reflection of stimulus orientation in the responses of the visual cortex neurons. *Biophysica*, 33, 4, 667-671.
26. I.A.Rybak, L.N.Podladchikova, N.A.Shevtsova, A.V.Golovan. (1988) Study of some temporal aspects of orientation selectivity mechanism in the visual cortex. In *Comparative Physiology of the Higher Nervous Activity of Man and Animals. V.1.*, Moscow, 182-183.
27. A.V.Golovan, N.A.Shevtsova, I.A.Rybak, (1988) Computer simulation of a learning neural structure with behavior determined by spatial organization of neuron firing. In *Comparative Physiology of the Higher Nervous Activity of Man and Animals. V.2.*, Moscow, 20-21.
28. T.M.Bogatyryova, A.V.Golovan, I.A.Rybak (1989) A neural structure with stochastic algorithm of learning. In *Proc. Conf. MNEMO'89*, Stara Zagora, Bulgaria, 45-46.
29. L.N.Podladchikova, I.A.Rybak, N.A.Shevtsova (1989) Parallel-sequential processing of information in the visual cortex neural networks. In *Proc. Conf. MNEMO'89*, Stara Zagora, Bulgaria, 53-54.

30. A.V.Golovan, I.A.Rybak (1989) On a contour segmentation algorithm for image processing with different resolutions. In *The Mechanisms of Integration of Biological Systems*. Stavropol, 84-85.
31. T.M.Bogatyryova, I.A.Rybak (1989) A synaptic modification as a result of selection in the process of competitive synthesis and dissociation of the receptor proteins. In *Proc. XXVIII All-Union Workshop Probl. Higher Nerv. Act.*, Leningrad, 13-14.
32. I.A.Rybak, N.A.Shevtsova, V.M.Sandler (1989) Primary image processing using the controlled neural network model. In *The Problems of Neurocybernetics*, Rostov-on-Don, 367-368.
33. I.A.Rybak, N.A.Shevtsova, A.V.Golovan, (1989) Computer simulation of the neuronal organization of local structures in the visual cortex. In *The Problems of Neurocybernetics*, Rostov-on-Don, 368.
34. L.N.Podladchikova, I.A.Rybak, N.A.Shevtsova, A.V.Golovan (1990) Some dynamic, structural and functional aspects of orientation selectivity of the visual cortex neurons. In *Physiology and Biophysics of Sensory Systems*, Leningrad University Press, 43-60.
35. I.A.Rybak, N.A.Shevtsova, V.M.Sandler (1991) Modeling of neural networks for the visual system studies and for the systems of image analysis and recognition. In *The Results of Science and Engineering. Series of Physics and Mathematical Models of Neural Networks. Vol 3*. Moscow (in press).

In English:

36. A.V.Golovan, T.M.Bogatyryova, I.A.Rybak, A.B.Kogan (1989) A neural network system learning by negative reinforcement. In *Proc. Int. Workshop "Neurocomputers and Attention"*, Moscow, Sept. 18-22, 1989. Pushchino, 110-111.
37. L.N.Podladchikova, I.A.Rybak, N.A.Shevtsova, A.V.Golovan (1989) Filtration of the orientation and discrimination of the image contour elements in the visual cortex. In *Proc. Int. Workshop "Neurocomputers and Attention"*, Moscow, Sept. 18-22, 1989. Pushchino, 143-144.
38. I.A.Rybak, N.A.Shevtsova, L.N.Podladchikova, V.M.Sandler (1989) The model of visual cortex iso-orientation domain as a base structure of neural network preprocessor for multiresolution image processing. In *Proc. Int. Workshop "Neurocomputers and Attention"*, Moscow, Sept. 18-22, 1989. Pushchino, 180-181.
39. N.A.Shevtsova, I.A.Rybak, L.N.Podladchikova, A.V.Golovan (1990) Temporal and spatial discrimination of image features in the visual cortex. In *Proc. Int. Symp. "NEURONET'90"*, Sept. 10-14, 1990, Prague, 321-323.
40. I.A.Rybak, N.A.Shevtsova, V.M.Sandler (1990) The model of the neural network visual preprocessor. In *Proc. Int. Symp. "NEURONET'90"*, Sept. 10-14, 1990, Prague, 293-295.
41. I.A.Rybak, L.N.Podladchikova, N.A.Shevtsova, A.V.Golovan, V.M.Sandler (1990) Computer simulation and experimental study of orientational selectivity in the visual cortex. In *Proc. Int. Neural Network Conf. "INNC 90"*, July 9-13, 1990, Paris, Vol. 1, 550-553.
42. I.A.Rybak, N.A.Shevtsova, L.N.Podladchikova, V.M.Sandler (1990) Modeling of the neural organization of the visual cortex and some issues of image processing by neuron-like network. In *Neural Networks--Theory and Architecture*. Eds. A.V.Holden and V.I.Krakov. Manchester University Press, 117-137.

43. L.N.Podladchikova, I.A.Rybak, N.A.Shevtsova, A.V.Golovan (1991) Filtration of the oriented image elements and feature discrimination in the visual cortex. In *Neurocomputers and Attention. Vol.1. Neurobiology, Synchronization and Chaos*. Eds. A.V.Holden and V.I.Krakov, Manchester University Press, 81-96.
44. I.A.Rybak, L.N.Podladchikova, N.A.Shevtsova, A.V.Golovan (1991) A visual cortex domain model and its use for visual information processing. *Neural Networks*, 4, 1, 3-13.
45. N.A.Shevtsova, I.A.Rybak, L.N.Podladchikova, A.V.Golovan (1991) Temporal and spatial discrimination of image features in the visual cortex. In *Theoretical Aspects of Neural Networks*. Eds. M.Novak and E.Pelican. World Sci. Pub. Co., 259-276.
46. I.A.Rybak, N.A.Shevtsova, L.N.Podladchikova (1991) Modeling of local neural networks of the visual cortex and applications to image processing. In *Proc. SPIE Conf. Applications of Artificial Neural Networks II, 2-5 April 1991, Orlando, Florida Part 2*, 737-748.
47. I.A.Rybak, A.V.Golovan, V.I.Gusakova, (1991) An approach to invariant object recognition on grey-level images by exploiting neural network models. In *Proc. SPIE Conf. Applications of Artificial Neural Networks II, 1-5 April 1991, Orlando, Florida, Part 2*, 472-482.
48. V.I.Gusakova, I.A.Rybak, A.V.Golovan (1991) The invariant transformation of visual images based on the principles of active visual perception and on the neural network paradigms. *Perception*, 20, 1, 105.
49. N.A.Shevtsova, I.A.Rybak, L.N.Podladchikova (1991) A neural network system for preliminary processing of the visual information. *Perception*, 20, 1, 110-111.
50. I.A.Rybak, A.V.Golovan, V.I.Gusakova, N.A.Shevtsova (1991) Modeling of a neural network system for active visual perception and image recognition. In *Proc. Int. Conf. Neural Networks and their Applications "NEURO-NIMES", November 4-8, 1991, Nimes, France*, 519-525.
51. I.A.Rybak, A.V.Golovan, V.I.Gusakova, N.A.Shevtsova, L.N.Podladchikova (1991) A neural network system for active visual perception and recognition. *Neural Network World*, 1, 4, ~~(in press)~~ 245-250.
52. I.A.Rybak, N.A.Shevtsova, V.M.Sandler (1992) The model of the neural network visual preprocessor. *Neurocomputing*, 4, 93-102.
53. I.A.Rybak, A.V.Golovan, V.I.Gusakova, L.N.Podladchikova, N.A.Shevtsova (1992) A neural network system model for active perception and invariant recognition of grey-level images. In *Proc. Int. Joint Conf. Neural Networks IJCNN'92, Baltimore* (submitted).

LIST OF PATENTS

1. V.N.Turyansky, I.A.Rybak, M.A.Bekker (1976) A device for automatic focusing, N 737910 in USSR.
2. V.N.Efimov, I.A.Rybak. (1980) A device simulating an adaptive pair of neural and glial cells. N 773649 in USSR.

UNIVERSITY OF WASHINGTON
DEPARTMENT OF ELECTRICAL ENGINEERING FT-10
SEATTLE, WASHINGTON 98195 USA

FAX: (206) 543-3842

FAX Cover Sheet

ATTENTION: Marilyn Pusan

NAME OF FIRM: IEEE

LOCATION: Piscataway, NJ

FAX TELEPHONE NUMBER: 908-562-1571

FROM: Rue Wagner PHONE: 206-543-6061

This transmission, including this cover page, contains 2 pages

DATE: 4/13/92 TIME: _____

Please call (206) 543-6061 if you do not receive all of the pages.

Please order a ream of the attached letterhead and
have it sent to:

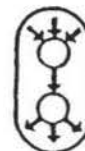
Dr. Robert J. Marks II
1131 199th Street SW
Lynnwood, WA 98036

Print,
Please order
a ream of this
for me from
IEEE - Bob



IEEE

TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Mail for Ruth Wagner 1 Mon, 27 Apr 92 13:33:02 -0700

From: marks@u.washington.edu Mon Apr 27 13:34:16 1992
From: Robert Marks <marks@u.washington.edu>
To: wagner@essex.ce.washington.edu
Cc: marks@u.washington.edu
Subject: Addresses
Date: Mon, 27 Apr 92 13:33:02 -0700

From PIKER@Admin.Rose-Hulman.Edu Mon Apr 27 13:24:03 1992
Received: from BITWAY.Rose-Hulman.Edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.22) id AA06674; Mon, 27 Apr 92 13:23:5
8 -0700
Received: from Admin.Rose-Hulman.Edu by Bitway.Rose-Hulman.Edu (PMDF #12
205) id
<01GJCHSXSW9C984K71@Bitway.Rose-Hulman.Edu>; Mon, 27 Apr 1992 15:26 EST
Received: from ADMIN.Rose-Hulman.EDU by ADMIN.Rose-Hulman.EDU (PMDF #122
05) id
<01GJCA8OBGS0A8C2OL@ADMIN.Rose-Hulman.EDU>; Mon, 27 Apr 1992 11:49 EST
Date: Mon, 27 Apr 1992 11:49 EST
From: David Piker <PIKER@Admin.Rose-Hulman.Edu>
Subject: Alumni Award Publicity
To: Marks@milton.u.washington.edu
Message-Id: <01GJCA8OBGS0A8C2OL@ADMIN.Rose-Hulman.EDU>
X-Envelope-To: Marks@milton.u.washington.edu
X-Vms-To: IN%"Marks@milton.u.washington.edu"
Status: 0

Professor Marks: Please forward through BITNET the name of your department head, dean of the faculty, campus newspaper and university news bureau director.

I would like for the UW campus community to be aware of the honor you will receive from Rose-Hulman on Saturday.

Reply by sending the information to me at Piker@ADMIN.Rose-Hulman.EDU

You might be interested to know that I also serve as the adviser to WMHD-FM. I noticed that you were involved with the station as a student

Congratulations on this fine honor. I look forward to meeting you on Saturday.

Dave Piker, Director of Public Relations, Rose-Hulman

////////////////////////////////////
////////////////////////////////////
////////////////////////////////////

Ruth,
Please send this information to Dave Piker.

Ray Bowen

Thanks!

Bob

Department Head Thomas A. Seliga, Chair
Dean of the Faculty J. Ray Bowen, Dean, College of Engineering
369 Loew Hall FT-10 FAX 5-0666
Campus newspaper University Week, N. Megan Floyd AC-27
Uweek@u.washington.edu
University News Bureau Chief
FAX 685-0658
Bob Piker, Director of News + Information

SAB 2700
Daily
144 Communications
DS-20

file

June 16, 1992

To:

Payman Arabshahi
Thomas P. Caudell 7L-22
~~Jai J. Choi~~ 6C-04
Robert J. Marks, II
Seho Oh

Subject: Invention Disclosure No. 92-187
Method for Adaptive Fuzzy Control and Decision

Your disclosure has been assigned the subject disclosure number. It will be reviewed in Patent Engineering by persons knowledgeable in the field of your invention and will be assigned to one of the following categories:

- Proceed with patent search and possible eventual filing.
- Hold pending completion of design/testing or further development of concept.
- No further Boeing action as invention has insufficient technical or economic advantage to Boeing or appears not to be sufficiently novel to obtain a patent.

You will be notified within 60 days as to which category your disclosure has been assigned.

To prevent possible loss of patent rights, contact Patent Engineering immediately if you become aware that your invention is to be or has been:

- Described by anyone or planned to be described in a publication or other public disclosure;
- Built, tested or used for any purpose;
- Sold or placed on sale;
- Patented by someone else;
- The subject of any discussion with persons outside the Company; or
- Modified or improved.

If you have any further questions about the processing of your disclosure, please contact Hal Shonyo, 477-0212.



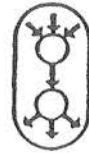
F. J. Gorges
Patent Engineering
Org. B-W25B M/S 6U-EJ

Results ok 4/2/92



IEEE

TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

April 1, 1992

Dr. Abraham Schultz
FAX 202 404 7572

Dear Dr. Schultz,

I have a decision on your manuscript, TNN#959. I do not however, have your mailing address.

Please mail or FAX it to me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks'.

Robert J. Marks, Editor-in-Chief
IEEE Transactions on Neural Networks

CONNIE L. J. MARKS
DR. ROBERT J. MARKS, II
1131 - 199TH ST. SW. (206) 776-8995
LYNNWOOD, WA 98036-7138

9025

April 2, 1992 19-10 39
1250

PAY TO THE ORDER OF Postmaster \$ 5¹³
Five 13/100 DOLLARS

DELUXE WALLET

U.S. BANK
UNIVERSITY HUB BRANCH
U OF W HUB BUILDING FK-10
SEATTLE, WASHINGTON 98195
U.S. BANK OF WASHINGTON, NATIONAL ASSOCIATION



MEMO _____

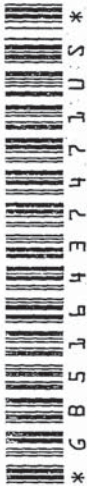
⑆ 125000105⑆ 0391 035219⑈ 9025

MAJESTIC MOUNTAINS

**POST OFFICE TO ADDRESSEE EXPRESS MAIL
 NEXT DAY SERVICE**



- GB51643747JUS



ORIGIN	Date In: 3/21/92	Postage \$ 9.95
Post Office ZIP Code 98036	Time In: 5:26 A.M.	Return Receipt \$
Initials of Receiving Clerk TM	Weight lbs. 19 oz.	C.O.D.
ACCEPTANCE <input type="checkbox"/> International Country Code		
<input checked="" type="checkbox"/> Next Day Delivery or <input type="checkbox"/> Second Day Delivery		
<input type="checkbox"/> By 12 Noon or <input checked="" type="checkbox"/> By 3:00 P.M.		
<input type="checkbox"/> Military 2nd Day or <input type="checkbox"/> Military 3rd Day		
Express Mail Corporate Account No. <i>Shortfall</i>	Federal Agency Account No.	
FROM: MARKS U.W. EE Dept FT-10 Seattle, WA 98195		

Paid 4.82
 9.95

DESTINATION	Date of Delivery: M D Y	Time of Delivery: A.M. P.M.
--------------------	-------------------------	-----------------------------

X Signature of Addressee or Agent

DELIVERY WAS ATTEMPTED	Date: M D Y	Time: A.M. P.M.
-------------------------------	-------------	-----------------

Signature of Delivery Employee
 1. _____ 2. _____

Waiver of Signature and Indemnity (Domestic Only)	I wish delivery to be made without obtaining the signature of the addressee or the addressee's agent (if in the judgement of the delivery employee, the article can be left in a secure location) and I authorize the delivery employee to sign that the shipment was delivered and understand that the signature of the delivery employee will constitute valid proof of delivery. SIGNED: _____
--	--

MAILING LABEL-Service Analysis & Proof of Delivery

TO:	Telephone Number: _____
DR. KISHAN BAHETI Room 1151, Division of Electrical, Communications & Sys Eng NATIONAL SCIENCE FOUNDATION 1800 G ST N.W. WASHINGTON, DC 20550	

Label 11-B (April 1990)

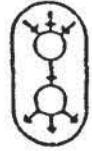
Press Hard. You Are Making 4 Copies

Remove The Backing Sheet To Expose Adhesive Before Applying The Label To Your Package

RETURN-RECEIPT SERVICE IS PURCHASED
 RETURN RECEIPT IN THIS AREA



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

March 31, 1992

Dr. G. Dreyfus
E.S.P.C.I.
10, rue Vauquelin
75005 Paris, France

FAX (33) 1 40 79 44 25

Dear Dr. Dreyfus,

As Dr. Newcomb has told you, there has been an unfortunate mistake concerning the paper you submitted for publication in the special hardware issue of the IEEE Transactions on Neural Networks. I apologize for this terrible mistake. Given that it has happened, I solicit your opinion on how to proceed with the publishing of your manuscript.

Option one will be to publish your paper in the next available issue of the Transactions. The deadline for the July issue has passed and the September issue is dedicated solely to fuzzy systems. November is thus the earliest issue this will be possible. I plan to place a footnote saying that your paper was omitted from the special issue due to an administrative oversight.

The second option is to wait two issues until the March 1993 issue. This issue will also be dedicated to neural network hardware.

Please let me know which scenario you wish to follow.

I will need from you, also, an IEEE copyright form and copies of the original figures.

I am sorry that this happened.

Sincerely,

A handwritten signature in black ink that reads "Bob Marks II".

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

Result ok

UNIVERSITY OF WASHINGTON
DEPARTMENT OF ELECTRICAL ENGINEERING FT-10
SEATTLE, WASHINGTON 98195 USA

FAX: (206) 543-3842

FAX Cover Sheet

ATTENTION: Dr. G. Dreyfus

NAME OF FIRM: E.S.P.C.I.

LOCATION: Paris, France

FAX TELEPHONE NUMBER: 33 1 40 79 44 25

FROM: R. J. Marks II PHONE: 206-543-6990

This transmission, including this cover page, contains 2 pages

DATE: 3/31/92 TIME: 2:15 pm

Please call (206) 543-6061 if you do not receive all of the pages.

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-6990 (office), 543-6061 (secretary),
543-2150 (main office), 776-8995 (home), 543-3842 (FAX).
marks@milton.u.washington.edu

March 24, 1992

Professor Alfred R. Schmidt
Rose-Hulman Institute of Technology
5500 Wabash Avenue
Terre Haute, Indiana 47803

Dear Professor Schmidt,

I am honored to be named as one of Rose-Hulman's Outstanding Young Alumni this year. As you requested, I enclose my vitae - a complete one and a summary. A recent photo is also enclosed.

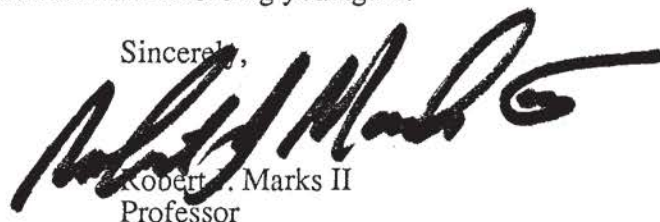
My travel plans have me arriving in Indianapolis in the early evening of Friday, May 1. I am afraid I will not be available for activities that evening. I will be leaving Terre Haute on Sunday morning. Unfortunately, my wife's schedule is such that she will probably not be able to accompany me.

In response to your queries:

- (1) High School: I graduated from *Garfield Heights High School* in 1968. Garfield Heights is a suburb of Cleveland.
- (2) Activities: At Rose, I was a member of the Glee Club in 1970. I was also the President of WRTR which, at the time, was the Rose-Hulman radio station. We also ran a nightly program over WPFR-FM in Terre Haute. I later worked my way through the MS degree at Rose as a WPFR DJ. My most important activity was dating Connie Lynn Jewett from Farmersburg, to whom I have been married for 18 years. At the time, her dad was mayor. Her brother, Rick, still owns and operates a printing company there.
- (3) Why Rose? My aunt served as a guidance counsellor at a Cincinnati high school. She worked with me to choose a good college. We visited Rose-Hulman (at the time, Rose Poly) in 1968 during finals week. My impression was that, not unlike the Marines, Rose-Hulman was where the very best went. I recall being quite happy (and surprised) when I was accepted for admission.

I hope you find this information useful. I look forward to seeing you again.

Sincerely,



Robert J. Marks II
Professor

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

5300 WABASH AVENUE
TERRE HAUTE, INDIANA 47803



(812) 877-1511
FAX (812) 877-3198

13 March 1992

Dr. Robert J. Marks III
1131 199th St. SW
Lynwod, WA 9806

Dear Bob,

I was delighted when Ron Reeves told me you can be here in May as one of the Outstanding Young Alumni for this year. The schedule of events is:

Friday, May 1:

If you can be here during the day (or even the afternoon), Buck Brown, chairman of the EE department, wants you to meet with the faculty and some of the students (he will write to you explaining what he has in mind).

Saturday, May 2:

11:00 am brunch with the other four alumni (and spouses) and with the four Outstanding Teachers—and, of course with some of us old-timers from the faculty and staff.

12:30 pm Panel Discussion (by Outstanding Young Alumni) for students & parents .

5:30-6:00 Reception (in the Hulman Memorial Union)


6:00-8:00 Honors Banquet (at which time Outstanding Young Alumni will be recognized as well as those students receiving recognition)

8:00 (if you choose to attend) a drama, the musical "Pippin", presented by the Rose Drama Club.

We would like to have from you as soon as convenient a photo, your vita, and please tell us (1) where was your hometown when you were a student and from which high school did you graduate, (2) in what activities did you participate as a students, and (3) (if you recall) how did you happen to choose to attend Rose. We will prepare a little brochure advertising the Panel Discussion to the staff and students and we want to include the description of your background and your progress to date. (We want to gloat over your success, actually!) Please send this material directly to me.

Bob, I really am glad you are being recognized on this occasion, and look forward to seeing you again. Until then,

Sincerely,


Alfred R. Schmidt
Professor of Mathematics

file

February 4, 1992

Part Time Employment

American Pioneer Inc., a local manufacturer of sonar equipment for the marine fisheries industry, has a part time position available for research and development on advanced instrumentation. Experience with digital signal processing technology desirable. Compensation commensurate with experience and productivity. Flexible schedule can be arranged.

To arrange an interview. Contact:

Nathan Roundy
American Pioneer Inc.
Phone - (206) 789-7053
Fax (206) 782-2887

2/3/92

Prof Robert Marks II

Nathan and I enjoyed meeting you and Dr. Loo! on Friday.

We will now draft a proposal and transmit it to you in about a week. -

Here is some information about Nathan and American Pioneer.

We took some test echoes yesterday - on solid objects to start.

I in touch to Berkeley for a few days.
R J Marks

The Fishermen's News

Vol. 40, No. 16

The Voice of the Pacific Coast Fishing Industry

Fishfinders: from brainstorm to black box

Page 23

by Lynn Lively

Ever wonder how your terrific color video fishfinder, scanning sonar, video plotter or other sophisticated electronic fishing tool became a successful product? This story will tell about the design process, how a gleam in somebody's eye became a color video fishfinder, a mysterious black box. The somebody in this case is Nathan Roundy, president, owner, engineer, fisherman and sometimes janitor of American Pioneer, a growing Seattle company that designs, builds, and sells marine electronics. Similar stories could probably be told by many companies about their early days.

Nathan has been my partner both personally and professionally for over six years. Many things about us are different: He's 6'5"; I'm 5'4". He's a male; I'm female. He's a visionary, and I'm the most practical person you could ever meet. By vision I mean that Nathan can talk to a skipper about what would help him catch fish and have an idea about how electronics could be made to do it. Nathan's four years' experience as a sonar operator on the herring purse seiner *Secure* out of Bellingham, Washington, fishing with skipper/owner Tony Pecarich gave him lots of ideas about using the computer. Ideas such as determining where the heaviest concentration of fish

are and having an alarm beep as you pass over them.

Talking to skippers who call us, or we meet at boat shows, and being out on the boats are both unending sources of inspiration. In addition, Nathan is always reading the latest electronics magazines like *Electronic Component News*, to see what is technically possible (books can't be published fast enough to keep up with the changes). Talking to other engineers and seeing what the competition is up to are ongoing.

Every field has people of vision: the first highliner to rig his nets a new way, the first skipper to modify his engine. Certain people are born with a gift of seeing how the world could be a different place.

Lots of folks have good ideas, but, in addition to vision, Nathan's most special quality is perseverance, which is the polite word for stubbornness and determination. Nathan will try experiments 100 times without getting discouraged. My attention span is short. When I don't understand the computer, I give it a kick and pick up a pencil. Nathan, on the other hand, takes it apart, adds some wires, and call the manufacturer to offer a few suggestions.

The idea for a new product usually begins with Nathan bounding into my office with eyes gleaming and his voice enthusiastic. "Guess who I just talked to! Lionel wants a fishfinder that can be mounted outside and I know just

how to build it." Even as my curiosity is piqued, my heart sinks, for I know we're off on another round of the five steps from brainstorm to black box.

After Nathan has decided what to build, the first step of the design process is research on how to build it, or what I privately refer to as the talk stage. Our chief design engineer, Tom Torkelson, is a practical creative genius. I'm always relieved when he joins the conversation as he is good at bringing Nathan back to earth.

During research, Nathan and Tom send away for samples and call suppliers of parts to see exactly how sensitive a chip is to heat, cold, salt air, and vibration. This is a very technical period with lots of talk about microprocessors and cotangents. They also dream about seemingly impossible jobs like programming the computer to tell if the crabs under the boat are male or female by antenna size!

Nathan is never happier than during research. He gets to spend hours talking to the wizards, as I call them. Wizards are the other electronics engineers and mechanical designers we work with, many of whom have long hair that stands on end as they near a solution. They often wear sweaters with holes in the elbows. Oh yes, wizards have high IQ's and dry wits, which make them a lot of fun to be around.

This research stage is very hard on me as general manager, for these guys get paid a lot to sit around and talk. I keep telling myself it's a creative process like painting

a picture, but my most frequent question is: "How soon will we have something to sell?"

At last the research winds down and we are ready to go into stage 2, the development of the product. There are two major designs needed: the software and the hardware. In development we begin to build prototypes. Experiments use actual parts instead of being in the abstract with paper and pencil.

The software for a marine electronic product can become very complex. As features are added, the computer must begin doing more than one job at a time. For instance, with our fishfinder the most important job is to convert the echo coming from the transducer into digital signals the computer can understand with a precision of a few microseconds. It then converts the digital value into one of 16 colors, and displays the fish echoes on the screen in the correct place.

In the meantime, the computer must calculate the depth, fish biomass, and bottom hardness; check the depth alarms; generate the transmit pulse with the correct pulse width; and perform many other computational tasks. And if that is not bad enough, the computer has to always check to see if the fisherman is pushing the keypad to change one of the settings. The assembly language program for our *Fishscope* requires more than 150 pages to print out.

As the program is developed, trying to simulate actual sea conditions becomes more difficult, and often errors in programming are not found until after exten-

AMERICAN PIONEER TRACK PLOTTING SYSTEM

Explore new areas with the latest in track plotter technology

American Pioneer track plotting system turns your IBM-PC compatible computer into a 16 color track plotter with capabilities far beyond anything found in conventional marine track plotters. With American Pioneer's new communications link your computer can be interfaced with AP sonars or other NMEA output depth compatible sounders and used as a valuable tool for mapping the ocean environment.

It is now possible to combine the unmatched target detection and discrimination of American Pioneer sonars with the limitless data storage capacity of personal computers to plot and store everything from seabed depth and hardness to fish biomass and positioning.

PLOTTER FEATURES:

- Automatic charting of max. & min. depth, bottom hardness & biomass from American Pioneer sonar
- Know what your catch is and where you caught it
- 105 Waypoints per file in any of 24 symbols. Unlimited files
- Limitless storage capacity; 500 track lines; 30,000 data points per megabyte
- Combine information from other vessels for fleet operation
- Plotter data can be stored on floppy disc for safe keeping
- Graphic tide display. See the tide anywhere, anytime
- Tide compensated depth recording in 16 colors. Know the true depth anytime
- 16 colors show you - seabed depth; seabed hardness; fish biomass; catch levels
- 16 species catch log. Easily configured to the kinds of fish you catch
- Sonar rings & compass headings on plotter screen to easily identify where the target is, and which way to steer the boat
- Add notes and net hangup locations to chart

AMERICAN PIONEER, INC.
4775 Ballard Avenue NW, Seattle, WA 98107
Tel: (206) 789-7053 OR (800) 927-6627
Fax: (206) 782-2887



NETSCANNER/ NETSCOPE



"For the first time, the fisherman can 'see' fish and obstructions 1/2 mile in front of the net, from the head-rope of the net.

"On the NETSCANNER screen, see the school 1500 feet in front of the net. Steer a few degrees right to line up perfectly on them. At 500 feet away, tilt up and down to observe that the fish are a little above the net. Speed up to raise the net and watch the fish come directly down the mouth of the net. Scan the transducer to see the position of the doors and the shape of the net mouth.

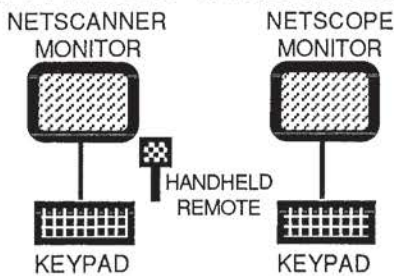
"This can easily be done with the American Pioneer NETSCANNER. NETSCANNER is a continuation of American Pioneer's commitment to providing the fisherman with the most powerful fishing tools available."

Nathan Roundy
Inventor

Technical Specifications

Dual Frequency: Aft 160 KHZ, Fwd. 60 KHZ
Monitors: Model 310
Television capability - NTSC 60 KHZ
Screen size: 10 inch
Monitor dimensions: 11.1" w x 9.1" h x 13.5" d
RGB resolution: 256 x 248 pixels
Remote Keypad: included, 20' cable, mounting bracket
Current: 2 amps
Voltage: 120 VAC
Operating Temperature: 30 to 105 degrees F no direct sun
Max. depth operation: 1500 feet
Max cable length: 6600 feet

WHEELHOUSE CONFIGURATION



COMPLETE SYSTEM INCLUDES

NETSCANNER
NETSCOPE
CABLE INTERFACE UNIT
TOWFISH ASSEMBLY
WITH TRANSDUCERS
CATCH PINGER
NOTE: Cable and winch not included. System compatible with conventional net scanner cable and winch.

Call or visit us to talk about your applications, the name of your nearest authorized dealer, and information on our factory-taught sonar schools. Ask for our demonstration video tape of all our fishfinders.

See your Authorized Dealer:

or call American Pioneer at
(206) 789-7053

MANUFACTURERS LIMITED WARRANTY AND DISCLAIMER

AP warrants that its equipment is of good workmanship and sound material except components manufactured by others for which manufacturer assigns, as permitted, the original manufacturer's warranty. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, DESIGN AND COURSE OF DEALING. MANUFACTURER'S WARRANTY PERIOD SHALL BE ONE YEAR AFTER DATE OF SHIPMENT TO THE ORIGINAL PURCHASER.

Customers remedies are expressly limited to repair or replacement of nonconforming equipment returned to AP at customer's expense. AP SHALL NOT BE LIABLE FOR, AND CUSTOMERS REMEDIES EXCLUDE, ANY AND ALL CLAIMS FOR LOSS OF USE, REVENUE, OR PROFIT, OR FOR INJURY, OR ANY OTHER CONSEQUENTIAL OR INCIDENTAL DAMAGES.

Without limiting the foregoing, AP does not warrant the installation of its equipment, and shall not be liable for costs related to removal and reinstallation of transducers.

American Pioneer is not responsible for integrity of customer's vessel. Customers should consult a competent marine expert about installation of AP equipment.

NOTICE: American Pioneer's (AP's) equipment is an aid to navigation and fishing. All aids are subject to limitations and should not be relied upon in total, without cross reference to all available information. This equipment is not a substitute for basic navigational and fishing principles and practice, and it does not relieve the customer of any fishing and navigational responsibilities. Since proper installation, operating conditions, operator knowledge and experience are beyond AP's control, AP's warranties and buyer's remedies are expressly limited by AP's limited warranty. See complete limited warranty for details.

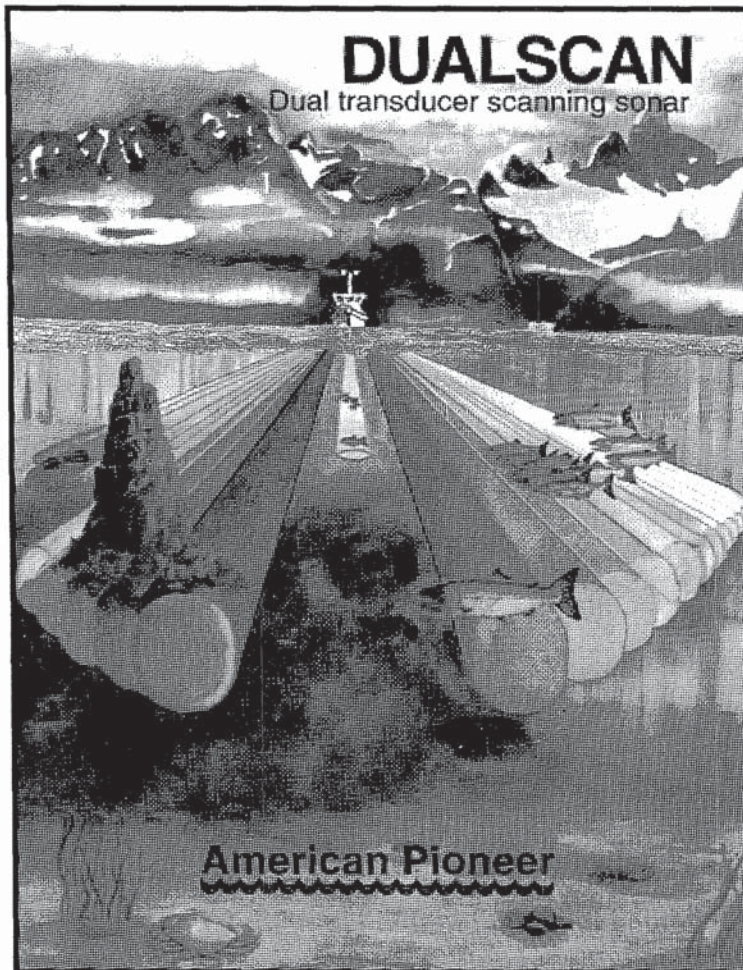
American Pioneer, Inc.

4775 Ballard Avenue NW • Seattle, WA 98107 USA
TEL: (206) 789-7053 FAX: (206) 782-2887 TELEX: 285847 TELX UR

© Copyright 1988 American Pioneer, Inc.
Printed USA AP1088

American Pioneer

Innovative Fishfinders
for Today and Tomorrow



SONAR FEATURES

- DUALSCAN** uses two transducers to scan four times faster than other sonars.
- Fastest scanning sonar allows faster boat speed with greater sonar coverage around the vessel.
- No seachests required, transducers just bolt to the hull next to the keel where they are protected.
- Narrowest beam angle (4 degree) gives the best shallow water performance of any sonar!
- Easiest sonar to operate, only 3 basic controls (Range, Gain & Tilt).
- 2 year warranty will protect your investment unlike other sonars.
- Sidescope, Octoscope & Fishscope option customizes your **DUALSCAN** for additional underwater views..
- 3300 watt RMS transmitter and sensitive preamp receiver allow **DUALSCAN** to see fish farther than ever before.

For more information, call or write:

American Pioneer

4775 Ballard Ave. N.W. • Seattle, WA 98107 USA
Tel: (206) 789-7053 • Fax: (206) 782-2887

US RETAIL PRICE LIST

Effective January 1, 1991



4775 Ballard Avenue NW • Seattle, WA 98107- 4810 USA
 Telephone (206) 789-7053 • Fax (206) 782-2887

PRODUCT	RETAIL PRICE USD	COMMENTS
DUALSCAN I - 160 KHZ sonar, no hoist	\$9,895	Purchase 50 KHZ transducer for vertical display
DUALSCAN II Dual frequency sonar	\$16,995	Purchase 50 KHZ transducer for vertical display
SOFTWARE OPTION FOR EITHER DUALSCAN	\$1,000	FISHSCOPE, SIDESCOPE, & OCTOSCOPE
FISHSCANNER - 160 KHZ scanning sonar	\$9,895	Specify length of seachest-not included
FISHSCANNER - 60/160 NB scanning sonar	\$12,995	Specify length of seachest-not included
SIDESCOPE - A three transducer display	\$5,495	Purchase 50 KHZ transducer for vertical display
SOFTWARE OPTION FOR SIDESCOPE	\$ 500	FISHSCOPE, & OCTOSCOPE
FISHSCOPE II dual frequency fishfinder	\$3,495	Use Triple Beam transducer for all purpose fishing
PREAMP option with new orders	\$ 750	Get 20-30% longer detection distance
PREAMP upgrade to existing units	\$1,250	Send to factory for upgrade
PREAMP option for new DUALSCAN II orders	\$1,000	Get 20-30% longer detection distance
PREAMP upgrade for existing DUALSCAN II	\$1,500	Send to factory for upgrade

VERTICAL TRANSDUCERS - for best performance order your transducer from AMERICAN PIONEER

Frequency and number of elements	Beam Pattern (degrees)	Typical Detection (ft)		Retail Price (USD)	COMMENTS
		Seabed	Fish		
XDCR 28-10	13 x 17	6000	900	\$1,350	Excellent deep water detection (Plastic P)
XDCR 50-1	40-cone	1200	300	\$ 185	Wide beam for shallow water (Bronze B)
XDCR 50-4	17 x 17	3000	600	\$ 350	Recommended transducer for most applications (P)
XDCR 50/160-9	11;33;6.5	5000	800	\$ 600	Triple Beam. Dual frequency. (P)
XDCR 125-1	8-cone	1200	250	\$ 220	Good compromise for detection & high resolution (B)
XDCR 200B-1	5-cone	1200	250	\$ 300	High performance, high frequency (B)

THIS PRICES LIST SUPERSEDES ALL PREVIOUS PRICE LISTS

All prices and specifications are subject to change without notice. All prices US Dollars, ex-factory. Brochure printed January, 1991.

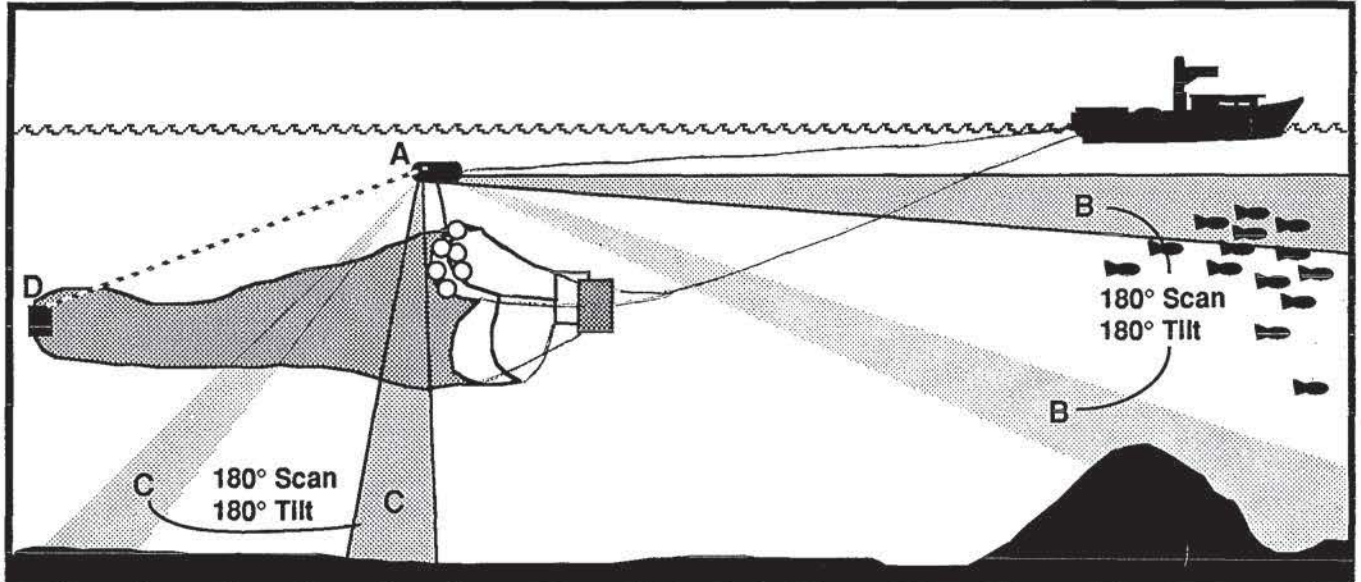


NETSCANNER/ NETSCOPE

The **NEW** 16-Color Catch Indicator

AVAILABLE FROM AMERICAN PIONEER

American Pioneer's new **NETSCANNER / NETSCOPE** is the only net catch indicator system that – for the first time – gives a 1/2-mile sonar picture, from the headrope, of fish and obstructions in front of the net. In addition, it provides full high-resolution scanning pictures of the net and doors. Designed for midwater/bottom trawling and scientific use.



KEY

- A. Towfish assembly with **NETSCANNER** transducer (fore) and **NETSCOPE** transducer (aft) connected to **NETSOUNDER** cable and net headrope.
- B. **NETSCANNER** beam scans 180° forward to detect fish and obstacles in front of net.
- C. **NETSCOPE** beam scans 180° aft. True depth presentation of net, fish, seabed.
- D. Catch Pinger signals to Towfish Assembly (A) when net is full.

NETSCANNER / NETSCOPE FEATURES

- Full function forward scanning sonar mounted on the headrope.
- Second scanning transducer for **NETSCOPE**.
- Catch Indicator.
- True depth **NETSCOPE** presentation.
- Dual frequency for maximum resolution and detection.
- Can also be used as a hull mounted **FISHSCOPE** and **FISHSCANNER** (transducers extra).

PURSE SEINERS

Use your American Pioneer sonar and Plotter to locate and chart bottom features (hard bottom, pinnacles, holes, etc.). Display sonar range rings and compass heading flash on the plotter screen, and you have a comparison of side by side sonar and Plotter pictures. Instantly identify fish schools hiding near pinnacles hundreds of feet away. Automatically display depth at any stage in the tide for fishing shallow areas.

MID-WATER TRAWLERS

Track fish schools over large areas while you fish. The Plotter will automatically store a relative measure of biomass found in vertical beam. The sonar will locate fish in a radius of up to a half mile around your vessel. A sonar range ring and compass heading flash show on the Plotter screen. Mark the fish schools or pinnacles located on the sonar by simply putting the Plotter cursor where the sonar target is, and push a button. Then you can line up the boat and net on the marked target without passing directly over the target.

BOTTOM TRAWLERS

Plot seabed depth, hardness and catch. Make your own accurate, tide corrected color bathymetric charts of your own fishing areas. Make notes to remind you of ground details and transfer information between boats for fleet operations.

LONGLINERS

The Plotter and American Pioneer sonar constantly monitor maximum and minimum depth between recorded points. You see every pinnacle and hole that the ship passes over plotted in an easy to read color scheme. Use the tracking functions to keep track of your gear as you lay it out. Input the start and end of other strings of gear to avoid laying out over yourself at the same time. Record up to 16 different species in your catch at the same time. Store your catch history for review either in season or on a year to year basis.

CRABBERS

You can use our simple input function to record the catch each time you pick up a pot. Plot the data and see trends in crab movement in a simple color scheme (no catch might be blue, while 400 crab per pot is red). We tag each string with date and time, so you can easily select which strings to plot and which to delete as the season progresses.

SURVEY OPERATIONS

Use the maximum and minimum depth updates from the sonar along with the track plotting and waypoint features of the Plotter to plan and execute your transects. Call up any track by number, name, color, or time and compare transects by name and time frame. While running your transects use the vertical beam for bottom profiling and at the same time, find and mark anomalies with the scanning beams. You can also fix the scanning beams in a side mode while on transect to get an extremely accurate view of changes in the bottom adjacent to your track line. Data is available in binary or ASCII files to use as input 2 external contouring.

SYSTEMS INCLUDES:

Software, communications card, operation manual and communication cable.
Plotter interface and custom software to interface with American Pioneer sonars

PRICE: \$6,000 Retail

REQUIRED EQUIPMENT: IBM-PC AT compatible with a minimum of 640k memory available with hard disc drive, EGA/VGA graphic card and monitor, Loran or GPS, digital compass with NMEA 1083 output, cables to interface Loran and compass to computer.

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-6990 (office), 543-6061 (secretary),
543-2150 (main office), 776-8995 (home), 543-3842 (FAX).
marks@milton.u.washington.edu

March 21, 1992

Dr. Kishan Baheti
Room 1151
Division of Electrical, Communications, and Systems Engineering
National Science Foundation
1800 G Street N.W.
Washington, DC 20550

Dear Dr. Baheti,

Enclosed is a proposal summary submitted in response to the *NSF/EPRI Intelligent Control Initiative*.

Sincerely,



Robert J. Marks II
Professor

cc: M.A. El-Sharkawi
S. Oh

Sile

Intelligent Control of Nonlinear Time-Varying Systems

M.A. El-Sharkawi, S.Oh & R.J. Marks II
University of Washington
Department of Electrical Engineering
Seattle, WA 98195

Summary

Fuzzy systems have been shown to be effective for controlling many nonlinear systems. Control heuristics are coded into fuzzy membership functions and relations that define the action of the system based on its performance, environment and state. The membership function heuristics, however, assume that the system being controlled does not significantly change in time. Many important systems do not conform to this pseudostationary assumption. We propose to develop and test fuzzy control paradigms that adapt to temporal system nonstationarities.

Temporally adaptive fuzzy control of nonlinear systems requires updating of fuzzy membership functions. One popular approach is to use neural networks to learn or fine tune membership functions in accordance to data from the system's performance. Although our approach uses adaptive techniques used in neural networks, updating is performed within proven fuzzy control system structures and architectures. Various aspects of this type of fuzzy control are in the initial stages of patenting at the University of Washington.

We propose to develop these paradigms and prove their utility through control of some important nonlinear time-varying systems. Induction motors and brushless motors are both highly time variant and nonlinear. Successful control of such machines would not only lessen the cost in numerous applications where more expensive linear machines are now used, but would significantly reduce corresponding electric power consumption. We propose use of fuzzy control to address the nonlinear nature and adaptive updating of fuzzy membership functions to address the highly time characteristics nature of these machines. The paradigms necessary for such control have been developed through our interdisciplinary efforts, and are at the point where experimental verification and additional development is required.

The adaptive fuzzy control paradigms will be tested and verified at the *Energy Laboratory* at the *University of Washington*. The lab facilities are well equipped with state-of-the-art measurement devices, power electronic apparatus and software/hardware interface with electric machinery. In this lab, several setups for developing and testing control strategies for high performance drives have been designed and extensively used in numerous research projects. A multitude of papers are available in the archival literature describing this work. Many of the procedures developed here have been adopted by industry and higher academia.

The laboratory is designed to verify and test virtually any control strategy for electromechanical systems. In this project, interest will focus on the the control of *high performance drives* (HPD's). For HPD's, controlling the rotor position of a robot, guided manipulator or supervised actuator, is no longer sufficient. Just moving the end effector from point "A" to point "B" may be inadequate unless the rotor angle of the electric drive motor follows a preselected track at all times. To achieve this, every motor in the robot arm must follow a specific track so that the aggregated motion of all motors keeps the end effector alongside its trajectory at all time. This is quite different from the positional

control applications where only the final values of the rotor position and/or speed are controlled with no or minimal control on the traveling time or overshoots.

The construction of a high performance drive system requires, in addition to a fast converter, an advanced controller that must be adaptive and robust. The tracking performance of the system must not suffer due to system variations, such as parameter variations of the motor, load changes, disturbances, measurement noise or model errors.

In many drive applications, the mechanical load varies considerably during operation. Robots and machine tools with changing load inertia are two typical examples. When a fixed controller setting is used in a drive system with a widely changing load, unsatisfactory performance often results. This is particularly true in position-controlled drives where slightly misaligned controllers can cause considerable overshoot and oscillation. In addition, controllers with fixed parameters are not always robust unless unrealistically high gains are used.

Two types of electric motors will be used to test the proposed control strategies: brushless dc motors and induction motors. The brushless dc motor is rapidly replacing the conventional dc machines due to improvements in magnetic materials and core technologies. These machines are characterized by their high power/volume ratios and high starting torque. Since these machines are brushless, they are ideal to use in clean and explosive environments such as food processing, aeronautics or chemical industries. Because of their desirable features and relative small sizes, these motors are rapidly replacing the existing hydraulic as well as the conventional electric drive systems in a number of applications that require high torque and precision control. The main problems with the dc brushless motors are the nonlinear behaviors of the machines and the drift in its parameters. These factors increase the degree of uncertainty in the system modeling and control. Conventional control strategies, such as the PID, fail to produce a high performance operation out of this type of motors.

The induction motor is another viable machine that has recently been considered for high performance drives. Induction motors are low maintenance machines, rugged and relatively smaller in size. Although the potential for induction motors in the area of high performance drives is very promising, designing such a system is still a very difficult task to accomplish because the induction motor model is highly nonlinear and complex, and the parameters of the motor drift during operation due to temperature changes, magnetic saturation.

The use of fuzzy control with temporally adaptive membership functions is a potentially powerful approach to controlling these important nonlinear time-variant systems.

UNIVERSITY OF WASHINGTON
DEPARTMENT OF ELECTRICAL ENGINEERING FT-10
SEATTLE, WASHINGTON 98195 USA

FAX: (206) 543-3842

FAX Cover Sheet

ATTENTION: Sing Lee - Feature Editor

NAME OF FIRM: Applied Optics

LOCATION: Washington, DC

FAX TELEPHONE NUMBER: (202) 872-9869

FROM: R Marks PHONE: (206) 543-6990

This transmission, including this cover page, contains 1 pages

DATE: 2/16/92 TIME: 9:5/2

Please call (206) 543-6061 if you do not receive all of the pages.

Re: Manuscript # 4986

While Prof. Marks is too busy at present to review this manuscript,
Dr. Donald Wunsch is able to do so by March 20. Is this an
acceptable date?

Sent to Wunsch

2/27/92

APPLIED OPTICS

William T. Rhodes, Editor in Chief
Duncan A. Moore, Editor, Optical Technology
Alexander A. Sawchuk, Editor, Information Processing
Alexander J. Glass, Editor, Lasers & Photonics

Optical Society of America
Applied Optics Manuscript Office
2010 Massachusetts Ave., NW
Washington, DC 20036

January 31, 1992

Please Reply By:

Feb-14, 1992

Prof. Robert J. Marks
Univ. of Washington
Electrical Eng. Dept.
MS FT-10
Seattle, WA 98195

Reviewer's
Signature: _____

Re: Manuscript Number AO 4986
Fixed planar holographic interconnects for optical neural
networks

Feature: Optical Computing

Thank you for reviewing the enclosed manuscript. Your contribution to the journal and to the optics community is greatly appreciated.

Please return your review, along with this form, by the reply date above if at all possible. If you are unable to return your review within two to three weeks of receiving the manuscript, either pass the manuscript and this form on to an appropriate colleague or notify the Manuscript Office immediately. Suggestions for alternative reviewers would be greatly appreciated. Guidelines for your review are provided on the reverse side. Feel free to use the space provided below for any comments to me you do not want transmitted to the author.

Return your review to the Applied Optics Manuscript Office in Washington, DC, using the enclosed envelope. You may also transmit your comments by facsimile or electronic mail. Numbers are given below.

Please note that this manuscript is a privileged document to be used for review purposes only. Its contents are confidential and are not for public distribution, discussion, etc.

Sing Lee

Topical Editor

Comments for the Topical Editor Only - Not to be transmitted to the Author:



Published by the Optical Society of America

Applied Optics

William T. Rhodes, *Editor in Chief*

OSA Manuscript Office
Voice: (202) 223-8130
Fax: (202) 872-9869
BITNET: OSAPUBS@GWUVM

January 31, 1992

Prof. Robert Marks
Univ. of Washington
Electrical Eng. Dept.
MS FT-10
Seattle, WA 98195

Re: Manuscript #4986

Feature: Optical Computing

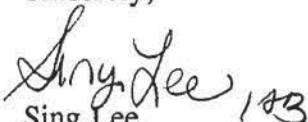
Dear Prof. Marks:

I would appreciate your reviewing the enclosed manuscript, which has been submitted for publication in Applied Optics. This manuscript has already been reviewed and the author has responded to the original reviewer comments and has revised the manuscript accordingly. Your additional input on the revised version would be most helpful to me.

The attachment provides some guidance for the review process and a convenient form for summarizing your recommendations.

If you cannot look at the manuscript in the next two or three weeks, please return it to me, if possible with recommendations for alternate reviewers. Feel free to refer it to a colleague within your organization.

Sincerely,


Sing Lee
Feature Editor

enc.
SL/smb

UNIVERSITY OF WASHINGTON
DEPARTMENT OF ELECTRICAL ENGINEERING FT-10
SEATTLE, WASHINGTON 98195 USA

FAX: (206) 543-3842

FAX Cover Sheet

ATTENTION: Mary Clarke

NAME OF FIRM: Decision Systems International

LOCATION: Atlanta, Ga

FAX TELEPHONE NUMBER: (404) 364-2881

FROM: R Marks PHONE: 206-543-6990

This transmission, including this cover page, contains 1 pages

DATE: 1/16/92 TIME: 2:45 PM

Please call (206) 543-6061 if you do not receive all of the pages.

SS # 282-48-2721

Decision Systems International	One Buckhead Plaza Suite 1410 3060 Peachtree Road, NW Atlanta, Georgia 30305 Phone: (404) 364-2882 FAX: (404) 364-2881
---	---

FAX TRANSMISSION

TO: Professor Robert J. Marks, II University of Washington Department of Electrical Engineering Seattle, Washington 98195	DATE 1/16/92
	FAX NUMBER: 1-206-543-3842

FROM: Mary Clarke

REFERENCE:

MESSAGE:

In order for us to complete the IRS 1099 Form, which we are required to do by January 01, 1992, we will need your social security number. I would appreciate your faxing it to us at your earliest possible convenience.

Thank you for your attention to this matter.

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Payman Arabshahi

Department of Electrical Engineering, FT-10

Telephone: (206) 543-2150

FAX: (206) 543-3842

January 14, 1992

IJCNN'92 Baltimore

Meeting Management

5665 Oberlin Drive, # 110

San Diego, CA 92121

Dear Sir/Madam:

Enclosed please find six copies of a manuscript entitled "Fuzzy Parameter Adaptation in Neural Systems", by Jai J. Choi, Payman Arabshahi, Robert J. Marks II, and Thomas P. Caudell. We request that it be considered for oral presentation in the Neural Fuzzy Systems technical session of IJCNN'92 Baltimore.

The presenter of the paper will be Dr. Jai J. Choi. ^{*}The corresponding author is Payman Arabshahi, at the above address.

Looking forward to hearing from you soon, I remain,

Cordially yours,



Payman Arabshahi

* Address: Boeing Computer Services, P.O. Box 24346, MS 6C-04, Seattle, WA 98124
(206) 477-5071

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Payman Arabshahi

Department of Electrical Engineering, FT-10

Telephone: (206) 543-2150

FAX: (206) 543-3842

January 14, 1992

IJCNN'92 Baltimore

Meeting Management

5665 Oberlin Drive, # 110

San Diego, CA 92121

Dear Sir/Madam:

Enclosed please find six copies of a manuscript entitled "Fuzzy Parameter Adaptation in Neural Systems", by Jai J. Choi, Payman Arabshahi, Robert J. Marks II, and Thomas P. Caudell. We request that it be considered for oral presentation in the Neural Fuzzy Systems technical session of IJCNN'92 Baltimore.

The presenter of the paper will be Dr. Jai J. Choi^{*}. The corresponding author is Payman Arabshahi, at the above address.

Looking forward to hearing from you soon, I remain,

Cordially yours,



Payman Arabshahi

* Address: Boeing Computer Services, P.O. Box 24346, MS 6C-04, Seattle, WA 98124
(206) 477-5071

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150

February 12, 1992

Mr. William Lemon
PG&E
3401 Crow Canyon Road
San Ramon, CA 94583

Dear Bill:

Enclosed is the proposal you help us with. The concept is quite exciting!

Best regards,

A handwritten signature in black ink, appearing to be 'RJM', with a small flourish at the end.

Robert J. Marks II
Professor

file

Decision Systems International

One Buckhead Plaza
Suite 1410
3060 Peachtree Road, NW
Atlanta, Georgia 30305
Phone: (404) 364-2882
FAX: (404) 364-2881

MEETING NOTES

Date January 29, 1992
Subject DSI Instructors Meeting
Reporter Pradeep Gupta

Participants Atif Debs
Tom Dy Liacco
Pradeep Gupta
Caroline Debs
Bill Lemon
Nils Flatabo
Arun Phadke
H.D. Chiang
Brian Cory
Les Fink
Jim Thorpe
Maria Ilic
Richard Tabors
Mo El-Hawary
M.A. El-Sharkawi
Bryan Stott

Topic	Discussion	Action Item
Review of 1991	DSI persisted in spite of weak market to maintain its presence and reputation. Feedback on innovations- notes etc. positive. In house courses at EDELCA and for EPRI expand DSI effectiveness.	
How to improve early registration?	Les Fink: Two stage registration will screen and provide early information. First, a request form for registration material. Second, registration material with more documentation Put DSI course calendar in Power Engineering Review early in the year for people to plan ahead.	Explore 2 stage course registration approach Send calendar to PER.
Mailing list update	Have meetings close to IEEE conferences. The mailing should be by topic area, instructors will review and provide suggestions. Les Fink: Add authors of recent papers to the list. Conference participant lists?	Send topic mailing lists to instructors for review. Explore conference lists.

Decision Systems International, 1/31/92

New course suggestions	Nils Flatabo: Hydro scheduling Bill Lemon: Power quality (Steve Krein of PG&E is potential contributor)	Evaluate new courses.
Marketing ideas	Use E-Mail. CIGRE Magazine advertisement for in-house courses on energy integration, LM, transmission systems etc. Introduce market differentiation in: Registration fee Hotels facilities Site selection	Review suggestions
Course locations	Monaco Marbella Switzerland USA	
Course dates	July 20-24 (Phadke has problems) August 10-14	Review dates with each instructor
Course quality enhancements	Send participant list to instructors in advance. Tune the schedule so two consecutive courses could be taught by same instructors. El-Sharkawi: Expand computer hands-on activity in the courses. Have a PC projector available. Give them "floppies" to take back. Some negative feedback from management type participants on computer use in class. Les Fink: instructors may want to have comment on their performance. El-Sharkawi did not support the idea.	

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150

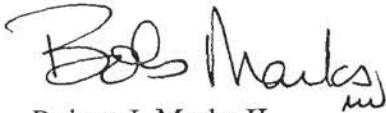
January 29, 1992

Shiro Usui
Physiological Engineering Lab
Information and Computer Sciences
Toyohashi University of Technology
Hibarigaoka Tenpaku
Toyohashi, JAPAN 441

Dear Shiro,

Attached is a call for papers for an upcoming workshop. I hope you can attend.

Best regards,



Robert J. Marks II
Professor

Enclosure

International Symposium on Time-Frequency + Time-Scale Analysis
Oct 4-6, 1992

University of Notre Dame
Notre Dame, Indiana 46556
Department of Electrical Engineering

Ruth,
Please fell
out 3 mail

Michael K. Sain
Freimann Professor
of Electrical Engineering
225 Cushing Hall
Notre Dame, Indiana 46556
Tel: (219) 239-6538
Fax: (219) 239-8007
E-mail: jordan@medugorje.ece.nd.edu

January 8, 1992

Dr. R. J. Marks, II
Interactive Systems Design lab
University of Washington, FT-10
Seattle, WA 98195

Dear Dr. Marks:

As you may have noticed in past issues of *IEEE Circuits and Systems Society Newsletter*, we feature reports and news items from the Society's chapters and technical committees. We also highlight conference activities and other activities of our Society. This letter is an invitation for officers and committees to submit material for publication.

CAS Society has many members. Even if but one percent of the members have an interest in the activity with which you are involved, this could be 100 or more members! From so many persons, one might benefit greatly in terms of ideas and skill.

Clearly, not everyone has something to report each quarter. Surely, however, there is information of interest once or twice a year. Even if you just send us the minutes of your group, we can excerpt material at this end.

We shall start to assemble the March 1992 issue about February 15 or so. Let us hear from you! Fax and e-mail details may be found at the top of the page. Your contribution need not be long, but we do have space from time to time for a more substantial contribution.

We are also in the process of updating our records. Could you take a minute to supply us with a phone number, fax number, and e-mail address? If the address above is incomplete or incorrect, could you also send us your corrected address? Attached is a form for your use if you wish to mail or fax this information or you may contact us by e-mail.

With best regards,

Michael Sain pl

Michael K. Sain, Editor
Circuits and Systems Society Newsletter

MKS/sl

CAS OFFICERS

Name: _____ Robert J. Marks II _____

Office(s) Held: _____

Telephone: _____ (206) 543-6990 _____

Fax: _____ (206) 543-3842 _____

e-mail: _____ marks@milton.u.washington.edu _____

Address: _____ Dept. of EE - FT-10 _____

_____ University of Washington _____

_____ Seattle, WA 98195 _____

Return this form to:

Michael K. Sain, Editor
Circuits and Systems Society Newsletter
Department of Electrical Engineering
Notre Dame, IN 46556
Tel: (219) 239-6538
Fax: (219) 239-8007
E-mail: jordan@medugorje.ece.nd.edu

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150

January 21, 1992

Mr. William Lemon
PG&E
3401 Crow Canyon Road
San Ramon, CA 94583

Dear Bill:

Thanks for the quick letter! I have no doubt it will help greatly. I will send a copy of the proposal to you. I'd appreciate your comments.

Meanwhile, I enclose a gift of literature for your amusement.

Best regards,

Robert J. Marks II
Professor

Enclosure

bc: M. El-Sharkawi

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

file



IEEE SERVICE CENTER

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331 U.S.A.

TELEPHONE (908) 981-0060
 TELEX 833233

CUSTOMER NO. 06402291	IEEE ORDER NO. 9201090133	ACKNOWLEDGEMENT DATE 01/09/92
ORDER REFERENCE		PRIORITY SHIPPING METHOD

S/N 92034023

SEE REVERSE SIDE
 FOR POLICY AND
 SHIPPING CODE
 INFORMATION

INQUIRIES SHOULD BE
 SENT TO PUBLICATION
 SALES DEPT. OR CALL
 (800) 678-IEEE OR (908) 981-0060
 REFERENCING
 CUSTOMER NO. AND
 INVOICE NO.

S
 H
 I
 P
 T
 O
 ROBERT J MARKS II
 UNIV OF WASHINGTON
 DEPT OF ELEC ENG FT-10
 SEATTLE WA 98195



THE INSTITUTE OF ELECTRICAL
 AND ELECTRONICS ENGINEERS, INC.

IEEE SERVICE CENTER

445 Hoes Lane, P.O. Box 1331
 Piscataway, N.J. 08855-1331 U.S.A.

ORDER NO. 9201090133

ROBERT J MARKS II
 UNIV OF WASHINGTON
 DEPT OF ELEC ENG FT-10
 SEATTLE WA 98195

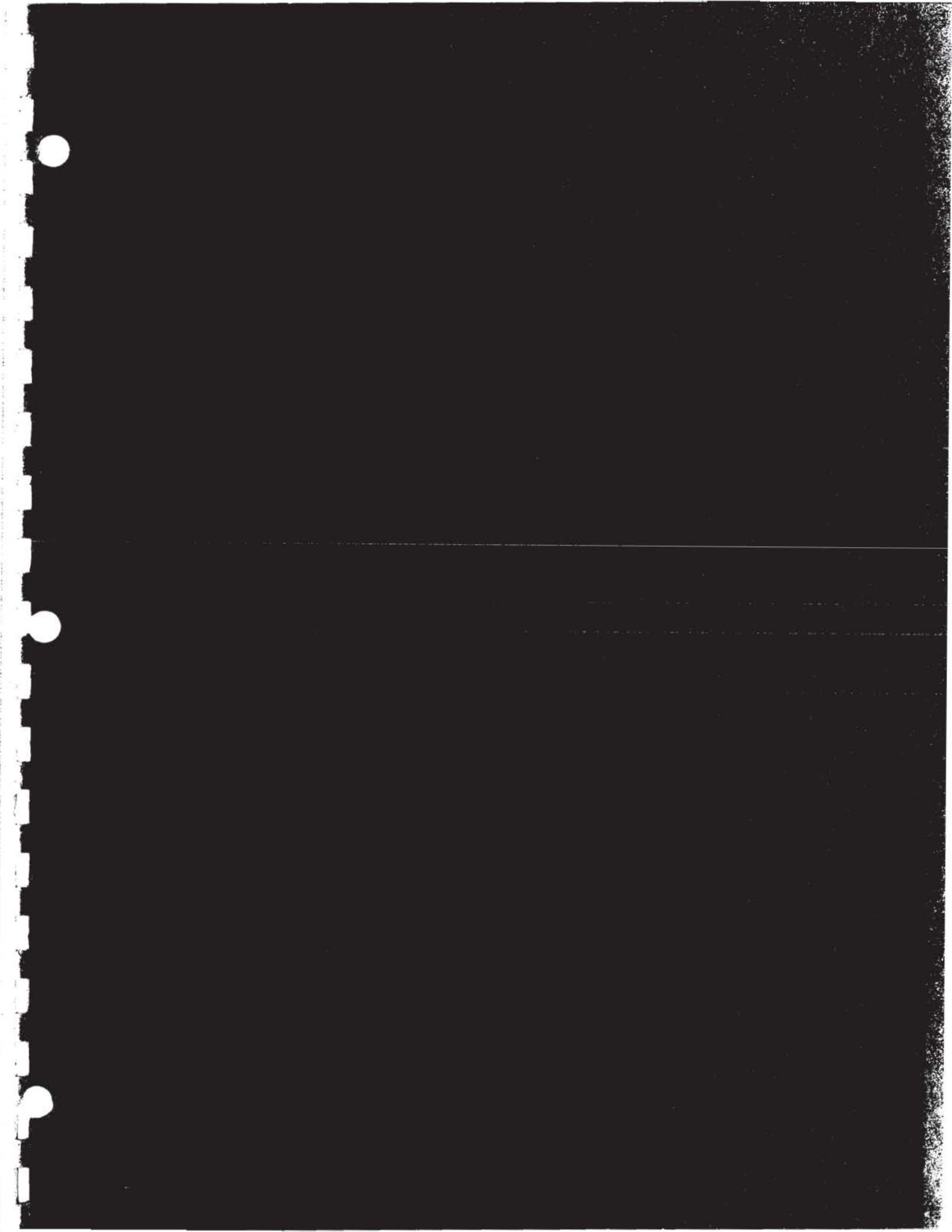
POSTMASTER: This parcel may be opened for Postal Inspection if necessary.
 Return postage guaranteed.

QTY. TO BE SHIPPED	PRODUCT NUMBER	MLRM	DESCRIPTION	QUANTITY ORDERED	SHIPMENT EXPLANATION		QUANTITY CHARGED	UNIT PRICE	DISC. %	AMOUNT
					QTY. NOT AVAILABLE	CODE				
	JP05991	IEEE MEMBERSHIP DIRECTORY	1992	N/A	1	1	NYA	\$9.95		
		YOUR CREDIT CARD ACCOUNT HAS NOT BEEN CHARGED								

BALANCE
 DUE

\$0.00

Robert J. Marks II Library Archive





IEEE

IEEE
NEURAL NETWORKS COUNCIL
AdCom Meeting
December 5-6, 1992

Arizona Biltmore Hotel
Scottsdale, Arizona



[Faint, illegible handwritten text, possibly bleed-through from the reverse side of the page]

PROPOSED AGENDA
NNC ADCOM MEETING
Scottsdale, Arizona
December 5-6, 1992

1. Introduction of attendees and presentation of proxies - 3
2. Approval of Agenda
3. Approval of Minutes of June, 1992, meeting - 10
4. Reports
 - a. Officer Reports
 - President
 - Summary of recent TAB actions - 65
 - Asia Neural Networks Association
 - Center for History of Electrical Engineering - 70
 - Vice President
 - Treasurer
 - 1993 Budget status
 - Secretary
 - b. Editor Reports
 - Transactions on Neural Networks - 71
 - Transactions on Fuzzy Systems
 - NNC Newsletter
 - c. Standing Committees
 - Awards Committee
 - Education Committee
 - Fellows Committee
 - Meetings Committee - 75
 - Rostov-on-Don Symposium (Snyder)
 - Beijing IJCNN (Eberhart)
 - ICNN '93 and FUZZ IEEE '93 (Ruspini)
 - WWW Meetings, July & October 1993 (Fukuda)
 - Nagoya '93 IJCNN (Fukuda)
 - Inverse Forum (Marks)
 - Power Forum '93 (Marks)
 - SP Forums (Marks)
 - VR Conference (Marks)
 - VR Workshop (Fukuda)
 - WCCI '94 Orlando (Bezdek)
 - Publications Committee - 109
 - Standards Committee - 110
 - d. Other Reports
 - CD Conference Proceedings - 112
 - Ad Hoc Committee on Council Structure
 - Ad Hoc Committee on Additional Publications - 115
 - Video Tutorials (El-Sharkawi)
 - Regional Interest Groups (Allen)
5. Consent Agenda
 - a. Appointments of Associate Editors - 120
 - b. Reappointments of Standing Committee Chairs
 - c. Acceptance of Social Implications of Technology Society - 121
as a member of the NNC
 - d. Delegation of IEEE Standards authority to Standards Committee - 128

* CD-ROM
- Budget
- Point Man
* \$5k Secretary
* Cooperating
* \$12K → Coordinate w/ Jim
* URAI5 Budget

Action:
* Send Stamatis Assoc. Editors

Nominations ← Budget

DC

e97
e96 FUZZ-IEEE → New Orleans
e96 ICNN → June '96
e96 URAIS → Toshio
e95 → Japan
e95 → Perth
e95 → Inside U.S.
e94

IEEE NEURAL NETWORKS COUNCIL
November 15, 1992

NNC EXECUTIVE COMMITTEE (ExCom) (1992)

President

Russell C. Eberhart
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709
(919) 541-7123 (O)
(919) 481-4269 (H)
rce@rti.rti.org
fax: 919-541-8746

Vice President

Patrick K. Simpson
Orincon Corporation
9363 Towne Centre Drive
San Diego, CA 92121
(619) 455-5530 ext. 267 (O)
xm8@sdcc12.ucsd.edu
fax: 619-453-9274

Treasurer

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506
(304) 293-6371, ext 510
rsn@a.coe.wvu.wvnet.edu
FAX: (304) 293 5024
(H) (304) 599-8838

Secretary

Toshio Fukuda, Chair
Nagoya University
Department of Mechanical Engineering
Furo-Cho, Chikusa-Ku
Nagoya, Japan
81 52 781-5111, Ex. 4478, 3301
FAX: (052) 781-9243
d43131a@nucc.cc.nagoya-u.ac.jp
81-3-3268-2545 (H)

Past President

Robert J. Marks II
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA98195
(206) 543-6990
marks@milton.u.washington.edu
FAX: (206) 543-3842

Standards Committee

Walter Karplus, Chair
3732 Boelter Hall
UCLA
Los Angeles, California 90024
(213) 825-2929 ac310
FAX (213) 825-2273
karplus@cs.ucla.edu
Home: (213) 472-8632

Education Committee

Robert W. Newcomb, Chair
Microsystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD 20742
FAX 301-314-9281
301-405-3662 (O)
newcomb@eng.umd.edu
301-662-0177 (Home)

COUNCIL MEMBER SOCIETY REPRESENTATIVES

Circuits and Systems

Edgar Sanchez-Sinencio (1991-92)
Dept. of Electrical Engineering
Texas A&M University
College Station, Texas 77843
(409) 845 7498
FAX (409) 845 7161
sanchez@ee.tamu.edu

Robert W. Newcomb (1992-93)
Microsystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD
FAX 301-314-9281
301-405-3662 (O)
newcomb@eng.umd.edu
301-662-0177 (Home)

Communications

Kesh Bakhru (1991-92)
Cubic Corporation
9333 Balboa Avenue
San Diego, CA 92123
(619) 277-6780, ext. 2648
FAX: 619-277-8819

Stamatios Kartalopoulos (1992-93)
AT&T Bell Laboratories, Room 3C-309
101 Crawfords Corner Rd.
P. O. Box 3030
Holmdel, NJ 07733-3030
svk@hotstone.att.com

Bimil K. Bose (12/93)
Dept. of Elec. Engg.
Ferris Hall 419
University of Tennessee
Knoxville, TN 37996
615-675-9505
fax 615-974-2669

Industrial Electronics

H. Troy Nagle (12/92)
Electrical and Computer Engineering
North Carolina State University
Box 7911
Raleigh, NC 27695-7911
t.nagle@ieee.org
919-515-3578 (O)
919-515-7382 (Fax)

Evangelia Micheli-Tzanakou (12/93)
Biomedical Engineering
Rutgers University
P. O. Box 909
Piscataway, NJ 08855-0909
etzanako@nova.rutgers.edu
908-932-3155, 2037 (O)
908-932-3753 (Fax)

Information Theory

Anthony Kuh (1991-92)
University of Hawaii at Manoa
Honolulu, HI 96822
(808)-948-7576
kuh@wiliki.eng.hawaii.edu

Terrance L. Fine (1992-93)
Cornell University
School of Electrical Engineering
Phillips Hall
Ithaca NY 14853
607 255 3643
tlfine@sibelius.ee.cornell.edu

Lasers and Electro-Optics

Dr. Tien-Hsin Chao (12/93)
Jet Propulsion Laboratory
M/S 300-329
4800 Oak Grove Drive
Pasadena, CA 91109

Nabil H. Farhat (1991-92)
Moore School of Eng.
University of Pennsylvania, D-2
33rd and Walnut Sts.
Philadelphia, PA 19104
215 898 5882
farhat@pender.ee.upenn.edu

Richard P. Lippmann (1990-91)
MIT Lincoln Laboratory
P.O. Box 73
Lexington, MA02173
(617) 981-2711
rpl@sst.ll.mit.edu

Social Implications of Technology
Donald C. Wunsch II, Ph.D.
Boeing Computer Services
P. O. Box 24346, MS 6C-04
Seattle, WA 98124-0346
206-477-5073
fax 206-477-1001
email dwunsch@atc.boeing.com

Rick Alan
TRW Safety Systems
4051 North Higley Road
Mesa, AZ 85205
602-396-1268
fax 602-396-2108
email 70324.1625@compuserve.com

Systems, Man, and Cybernetics
Don E. Brown (1990-91)
Dept. of Systems Engineering
University of Virginia
Charlottesville, VA 22903-
(804) 924-5393
deb@virginia.bitnet

James M. Tien (1991-92)
Dept. of Decision Sciences & Eng. Sysys.
Rensselaer Polytechnic Institute
Troy, New York 12180-3590
(518) 276 6486
FAX (518) 276 8227
jmtien@rpitsmts.bitnet

ICNN/FUZZ IEEE '93 CONFERENCE CHAIR
Enrique Ruspini
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park, CA 94025
415-859-2314
ruspini@ai.sri.com

Nutter discussed the summary on Page 82 of Blue Book.

Nutter distributed the 1993 budget (Attachment #1).

MOTION: Approve the budget.

DISCUSSION: There were still items in this meeting that would have an impact on the budget.

MOTION: Defer motion to last item on agenda. Passed.

SECRETARY'S REPORT:

Fukuda indicated that he had no report.

EDITORS' REPORTS:

Neural Networks Transactions Editor's Report (Marks)

-Upcoming special issues on hardware, evolutionary programming, and fuzzy systems.

-Statistics on the Transactions on Neural Networks (Attachment #2).

MOTION: NN Transactions rate for nonmembers be raised from \$95 to \$114 as suggested by IEEE.

DISCUSSION: This will primarily impact the library all-transactions package. MOTION PASSED.

Fuzzy Transactions Editor's Report (Bezdek):

-Fuzzy Transactions was approved by IEEE.

ACTION: Bezdek will contact Phyllis Hall.

The budget for the Fuzzy Transactions has been approved by all required IEEE entities.

Newsletter Editor's Report (Snyder).

Snyder distributed the Newsletter budget (Attachment #3).

MOTION: Approve the budget for Newsletter as submitted in Attachment #3.

DISCUSSION: Cost could be reduced by mailing Newsletter and Transactions in same mailing.

MOTION PASSED.

AWARDS COMMITTEE:

Pioneer Awards: Dickinson distributed the Press Release (Attachment #4).

Amari, Freeman and Willshaw were recommended to receive this year's Pioneer Awards. MOTION: AdCom ratify these award recipients. PASSED.

Transactions Award: There were no nominations for Transactions Award. The award will thus not be given this year. Dickinson distributed the award proposal (Attachment #5).

MOTION: (Dickinson) To approve the 'IEEE Neural Networks Council Fuzzy Logic Technology Award'.

DISCUSSION: Such an award could be broadened to include any field within the Council's field of interest.

AMENDMENT: Delete 'fuzzy logic' from description and text of award and make it applicable to cover all technology covered by the Council's Field of Interest.

CONSENSUS: Word-smithing could be performed by the Awards Chair.

AMENDMENT PASSED.

AMENDED MOTION PASSED.

DISCUSSION: Do an Early Early of \$195 and keep late registration to under \$400.

MOTION PASSED.

MOTION: Forward the balance of seed money in budget just approved.
PASSED.

Inverse Forum: Marks said there has been no activity with this meeting.

Power Forum: El-Sharkawi reported all was going quite well. The Council is a cooperating Society in this meeting.

SP Forum: Marks said the Council is a cooperating Society for this Copenhagen meeting. The Council's name, though, appears on none of the meeting's literature.

VRAIS: Marks reported he is close to signing hotel contract.

Nagoya was discussed. The budget appears on Page 60 of the Blue Book.

MOTION: Approve the budget as it appears in the Blue Book.

MOTION: Table above motion. PASSED.

DISCUSSION:

Discussion followed regarding the share of the budget risk that would be taken by the NNC. NNC previously approved a 1/3 share of the financial sponsorship of the meeting.

The possibility of changing the name of the Nagoya conference to something like the JICNN was discussed.

MOTION: Let NNC ExCom resolve this issue if JICNN or similar name is not acceptable to Japanese, with restriction that NNC cannot unilaterally sponsor an IJCNN. (INNS must agree.)
PASSED. (2 opposed.)

MOTION: To change from co-sponsorship to technical co-sponsorship because no profit or loss appears in the budget for the Nagoya Conference. DEFEATED. (4 in favor, 7 opposed.)

ACTION: Further discussion to sensitive issue of name change and its influence on Japanese participation.

ExCom and INNS and Japanese organizers need to discuss this issue.

MOTION: Take Nagoya budget question off the table. PASSED.

MOTION: Accept Nagoya budget with name change. ExCom be authorized to negotiate a change to the name. IEEE has 1/3 financial responsibility and 2/3 is shared by other societies.

AMENDMENT: To remove 1/3 responsibility from the motion. DEFEATED.

IEEE Press has two initiatives on interface with other Publishers. The President has the authority to approve books recommended by the Publications Committee. Suggest President appoint a subcommittee to deal with financing, name for publication, etc.

Due to the NN Transactions backlog, the Publications Committee suggested an applications-oriented journal. Increase page count of this Transactions or split into two.

ACTION: President Eberhart appointed a Publications Subcommittee of Marks, Simpson, El-Sharkawi, Snyder, Fukuda, with Brown as Chair.

MOTION: Motion to approve 10% increase in page number starting in 1993.
DISCUSSION: Suggestion by Dickinson to raise level of acceptance.
MOTION PASSED.

RESOLVED: Marks to pursue a 10% increase in pages for 1992 if there are no penalty charges.

Kartolopoulos turned the floor over to Marks regarding a matter concerning the Transactions. Hassoun, the book review editor, requested Simpson review Kosko's first book. Kosko got a copy of the review and claimed it was unfair. Marks, as Editor, took responsibility for the review, and subjected Simpson's review to two anonymous reviews. Both supported Simpson's review. Marks decided to publish, and wrote Kosko telling him so. The reviews of the review were also given to Kosko. (This material was distributed to the Publications Committee at their meeting). Kosko appealed the incident to Cain, the IEEE VP for Publications. Cain and Marks talked. Cain hoped the incident could be handled at the Conference level. Marks declared a conflict of interest in the matter, and gave the Publications Committee consent to make the editorial decision. The decision of the Publications Committee was to bring this to AdCom. Simpson then said that it was a mistake to give an author a copy of a book review prior to publication. He reminded AdCom that their decision would set policy for future reviews. Marks and Simpson then left the room to allow for more open discussion of the matter. Further discussion followed.

MOTION: Simpson's review will be published. Kosko is allowed a rebuttal of Simpson's review as a Letter to the Editor. Simpson will be allowed to addend a rejoinder. The rebuttal and rejoinder will appear in the same issue of the Transactions and will appear as soon as publication schedules allow. Editing will be performed by a person acceptable to both Kosko and Simpson. **PASSED.**

RECESS: A ten minute recess was called at 3:02 p.m.

VIDEO TUTORIALS AD HOC COMMITTEE:
El-Sharkawi distributed Attachment #10.

PIONEER VIDEOS: Kohonen has recorded. Widrow is scheduled for July. Negotiation is still under way with Grossberg.

THEORY & APPLICATION OF FUZZY LOGIC (jointly sponsored with EAB). Six tapes have been made and are in the process of being edited. Preliminary PR publication for sale of video tutorials is in

MOTION PASSED BY ACCLAMATION. (2/3 needed)

Robinson pointed out that the Constitution requires 25 days notice prior to an AdCom vote on Constitution changes.

ACTION: Eberhart was tasked with notification and coordination of the vote. There is still time before the next TAB meeting.

MOTION: To define ExCom as consisting of the elected officers and the editors of the Transactions, and to empower ExCom to act for the AdCom between AdCom meetings.

Computer Society representatives opposed the motion.

MOTION DEFEATED: (6 in favor, 8 against)

OLD BUSINESS

ACTION: Eberhart appointed Robinson to investigate a possible constitutional change to implement the intent of the defeated motion, and to report at the next meeting.

COUNCIL STRUCTURE: The Council has grown considerably, and it appears that a reorganization may be a good idea. For example, it may be that we now need two or three Vice Presidents; one for publications, one for meetings, etc.

ACTION: Nagle and Robinson will investigate and make recommendations at next AdCom meeting.

DISCUSSION: When a new person is appointed to the Ad Com, should we give them an orientation document? a handbook? a copy of the constitution?

OLD BUS.

ACTION: Tzanakou will develop a one-page summary of AdCom member duties.

COUNCIL HISTORY: Marks reported he had done nothing.

ACTION: Marks was retasked by Eberhart.

NEW BUSINESS:

BUDGET: MOTION to approve the budget subject to corrections by Ex Com with the interpretation of "corrections" being that numbers and bottom line are correct. PASSED.

CONFLICT OF INTEREST (Ruspini)

Ruspini elaborated on the petition on Page 138 of the Blue Book. He left the room to allow for open discussion.

MOTION: Dr. Ruspini may use his wife and son as secretary and graphics designer respectively with a combined limit of \$15,000 for the year. PASSED.

A discussion of the possible establishment of Technical Committees was deferred to a later date.

NEXT MEETING:

1

Recommended Budget 1993

NC-92-All Accounts
 6/ 6/92

Proposed Budget

Category Description	1992 ³	Revised
INFLOWS		
Conf Genetic Alg and NN	-4,000	+1000
FUZZ-IEEE-92 Conference	60,000	+7900
FUZZ-IEEE-93 income	60,520	
IC on NN&SigProc Singapor	-5,000	
IJCNN Baltimore	50,000	
IJCNN Singapore 1991	0	
IJCNN-91-Seattle	55,000	
IJCNN-92 Balt CD-ROM	-15,000	
IJCNN-Nagoya Japan	0	
Interest on money	1,000	
Membership fees Trans NN	92,800	
Rostov-On-Don Russia Conf	-10,000	
VR Conf in Seattle	16,300	
TOTAL INFLOWS	301,620	
OUTFLOWS		
ADCOM Expenses	25,000	
Awards Travel/expense	1,500	
IEEE Service Fees	300	
Newsletter	21,300	26k
Presidents Expenses	10,000	
Regional Interest Groups	1,000	
Secretarial Expenses	200	
Standards Committee	6,000	
Trans on Neural Networks	185,200	
Treasurer's Expenses	1,500	
Vice Presidents Expenses	300	
TOTAL OUTFLOWS	252,300	
OVERALL TOTAL	49,320	

NNC Treasury Register Listing

NNC Treasury
 1/6/92

Page
 3

Date	Num	Payee	Memo	Category	Amount	C	Balance
12/31/91		Opening Balance					
1/13/92		Robert Marks	Secretarial Sup	ADDCOM Secretari/	-5,905.00		5,905.00
1/13/92		Robert Marks	Travel IEEE Exc	ADDCOM/travel	-757.23		5,147.77
1/21/92		Robert Marks	Expenses for Tr	Trans on NN/tele	-216.33		4,931.44
1/21/92		Roy Nutter	Travel ExComm	ADDCOM/travel	-652.20		4,279.24
1/21/92		Bernard Widrow	Pioneer Award T	awards/travel	-551.85		3,727.39
1/21/92		Stephen Grossberg	Pioneer Award a	awards/travel	-1,519.63		2,207.76
1/28/92		Pat Simpson	Excom Meeting R	ADDCOM/travel	-549.93		1,657.83
2/ 4/92		Russ Eberhart	TAB Financial a	President/travel	-376.66		1,281.17
2/ 4/92		IJCNN-91-Seattle	Preliminary Dis	IJCNN-Seattle/su	55,000.00		1,657.17
2/ 5/92		Elsevier Science Publi	Half Page Adver	Newsletter/adver	600.00		2,257.17
2/ 5/92		Rose-Hulman Inst of Te	Half Pg Ad Ck12	Newsletter/adver	600.00		2,857.17
2/ 5/92		Fraklin Spier Inc	Half Pg Ad 12/5	Newsletter/adver	510.00		3,367.17
2/ 6/92		Russ Eberhart	Phone Calls for	President/teleph	-137.21		3,230.00
2/11/92		Russ Eberhart	Travel + IJCNN-	President/travel	-3,932.95		-702.95
2/18/92		Pat Simpson	telephone and m	Vice President/t	-172.18		-875.13
2/18/92		Charlie Robinson	Travel to March	ADDCOM/travel	-700.00		-1,575.13
2/18/92		Russ Eberhart	Travel Advance	President/travel	-1,200.00		-2,775.13
2/27/92		Robert Marks	Telephone Excom	President/teleph	-316.32		-3,091.45
2/27/92		Pat Simpson	Telephone e-mai	Vice President/t	-79.10		-3,170.55
3/ 3/92		Francesca Eberhart	Adcom support	ADDCOM Secretari/	-204.29		-3,374.84
3/ 3/92		Robert Marks	Travel Jan exco	ADDCOM/travel	-838.47		-4,213.31
3/ 4/92		Francesca Eberhart	Prep ADCOM book	ADDCOM Secretari/	-623.33		-4,836.64
3/ 5/92		Robert Marks	Travel Advance	President/travel	-500.00		-5,336.64
3/12/92		Fancesca Eberhart	Fres's Sec serv	President	-131.36		-5,468.00
3/12/92		Dandina H Rao	Student Travel	ADDCOM	-1,314.00		-6,782.00
3/12/92		Choon-Seng Yee	Student Travel	ADDCOM	-160.00		-6,942.00
3/12/92		Andrew J Worth	Student Travel	ADDCOM	-1,026.00		-7,968.00
3/13/92		Pat Simpson	e-mail charges	Vice President	-21.99		-8,000.00
3/13/92		Roy Nutter	Travel to AdCom	ADDCOM	-642.69		-8,642.69
3/18/92		Charles J Robinson	Travel to AdCom	ADDCOM	-529.57		-9,172.26
3/18/92		Robert W Newcome	Travel to AdCom	ADDCOM	-626.72		-9,798.98
3/18/92		Stamatios V Kartolopou	Travel to AdCom	ADDCOM	-813.91		-10,612.89
3/24/92		Connie Lynn Marks	Sec 9/1-12/31/1	Trans on NN	-3,333.33		-13,946.22
3/24/92		Robert J Marks	Copy Machine	Trans on NN	-1,832.90		-15,779.12
3/24/92		Connie Lynn Marks	Sec 1/1-3/31/19	Trans on NN	-2,500.00		-18,279.12
3/31/92		Robert J Marks	Travel to AdCom	ADDCOM	-632.57		-18,911.69
4/ 3/92		Wesley E Snyder	Travel to AdCom	ADDCOM	-1,653.91		-20,565.60
4/ 3/92		NNC	Adv in Conn IJC	Newsletter	1,600.00		-18,965.60
4/ 7/92		Walter Karplus	Travel to Stand	Standards	-260.43		-19,226.03
4/ 7/92		Walter Karplus	Travel to IEEE	Standards	-1,346.17		-20,572.20
4/ 7/92		Walter Karplus	Travel to AdCom	ADDCOM	-1,346.17		-21,918.37
4/20/92		James C Bezdek	Travel to AdCom	ADDCOM	-428.00		-22,346.37
5/ 4/92		Transfer of Funds	Stationary and	fees	-50.00		-22,406.37
5/11/92		Robert J. Marks	Travel to TAB A	ADDCOM	-849.30		-23,255.67
5/11/92		Rosalyn Snyder	Edit/Typesettin	Newsletter	-2,876.79		-26,132.46
5/19/92		NNC	Adv West Pub Ma	Newsletter	325.00		-25,807.46
6/ 2/92		Pat Simpson	e-mail and phon	Vice President	-70.17		-25,877.63
6/ 2/92		Bob Marks	Advance for AdC	ADDCOM	-500.00		-26,377.63
6/ 2/92		H Troy Nagle	Travel to AdCom	ADDCOM	-682.34		-27,060.00
6/ 2/92		Robert J Marks	Misc:Pad/stamp,	Trans on NN	-122.36		-27,182.36

NNC Expenses by Category
 12/ 1/91 Through 12/31/92

NC-92-All Accounts
 6/ 6/92

Date	Acct	Num	Description	Memo	Category	Clr	Amount
INCOME/EXPENSE							
INCOME							
FUZZ-IEEE-92 Conference							
12/31/91	NNC Cas		FUZZ-IEEE-92 -S		FUZZ-IEEE-92/		-30,000.00
6/ 2/92	fuzzy-9		NNC	Repay adva	FUZZ-IEEE-92		40,000.00
Total FUZZ-IEEE-92 Conference							10,000.00
FUZZ-IEEE-93 income							
2/11/92	fuzzy-9		Advance to Conf For printi		FUZZ-IEEE-93		-10,000.00
Total FUZZ-IEEE-93 income							-10,000.00
IJCNN Baltimore							
12/31/92	IJCNN-9		IJCNN-92-Baltim advance		IJCNN-92-Balt		- 50,000.00
Total IJCNN Baltimore							- 50,000.00
IJCNN Singapore 1991							
12/31/92	singapo		IJCNN-91-Singap Advance AD		IJCNN-Sing-91		- 20,000.00
Total IJCNN Singapore 1991							- 20,000.00
IJCNN-91-Seattle							
2/ 4/92	NNC Tre		IJCNN-91-Seattl	Preliminar	IJCNN-Seattle		55,000.00
6/ 4/92	NNC Tre		NNC	Final dist	IJCNN-Seattle		10,148.32
Total IJCNN-91-Seattle							65,148.32
TOTAL INCOME							135,148.32
							(-70,000)
							<u>365,148.32</u>
EXPENSES							
ADCOM Expenses							
1/13/92	NNC Tre		Robert Marks	Travel IEE	ADCOM/travel		-757.23
1/21/92	NNC Tre		Roy Nutter	Travel ExC	ADCOM/travel		-652.20
1/28/92	NNC Tre		Pat Simpson	Excom Meet	ADCOM/travel		-549.93
2/18/92	NNC Tre		Charlie Robinso	Travel to	ADCOM/travel		-700.00
3/ 3/92	NNC Tre		Robert Marks	Travel Jan	ADCOM/travel		-638.47
3/12/92	NNC Tre		Dandina H Rao	Student Tr	ADCOM		-1,314.00
3/12/92	NNC Tre		Choon-Seng Yee	Student Tr	ADCOM		-160.00
3/12/92	NNC Tre		Andrew J Worth	Student Tr	ADCOM		-1,026.00
3/13/92	NNC Tre		Roy Nutter	Travel to	ADCOM		-642.69
3/18/92	NNC Tre		Charles J Robin	Travel to	ADCOM		-529.57
3/18/92	NNC Tre		Robert W Newcom	Travel to	ADCOM		-626.72

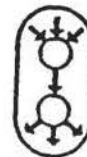
NNC Expenses by Category
 12/ 1/91 Through 12/31/92

NC-92-All Accounts
 6/ 6/92

Date	Acct	Num	Description	Memo	Category	Clr	Amount
3/ 3/92	NNC	Tre	Francesca Eberh	Adcom supp	ADCOM	Secreta	-204.29
3/ 4/92	NNC	Tre	Francesca Eberh	Prep ADCOM	ADCOM	Secreta	-623.33
Total Secretarial Expenses							-6,732.62
Standards Committee							
4/ 7/92	NNC	Tre	Walter Karplus	Travel to	Standards		-260.43
4/ 7/92	NNC	Tre	Walter Karplus	Travel to	Standards		-1,346.17
6/ 5/92	NNC	Tre	Walter Karplus	Travel/ Au	Standards		-1,370.33
Total Standards Committee							-2,976.93
Trans on Neural Networks							
1/21/92	NNC	Tre	Robert Marks	Expenses f	Trans on NN/t		-216.33
3/24/92	NNC	Tre	Connie Lynn Mar	Sec 9/1-12	Trans on NN		-3,333.33
3/24/92	NNC	Tre	Robert J Marks	Copy Machi	Trans on NN		-1,832.90
3/24/92	NNC	Tre	Connie Lynn Mar	Sec 1/1-3/	Trans on NN		-2,500.00
6/ 2/92	NNC	Tre	Robert J Marks	Misc:Pad/s	Trans on NN		-122.36
Total Trans on Neural Networks							-8,004.92
Vice Presidents Expenses							
2/18/92	NNC	Tre	Pat Simpson	telephone	Vice Presiden		-172.18
2/27/92	NNC	Tre	Pat Simpson	Telephone	Vice Presiden		-79.10
3/13/92	NNC	Tre	Pat Simpson	e-mail cha	Vice Presiden		-21.99
6/ 2/92	NNC	Tre	Pat Simpson	e-mail and	Vice Presiden		-70.17
Total Vice Presidents Expenses							-343.44
Expenses - Other							
12/31/91	NNC	Tre	Opening Balance				0.00
Total Expenses - Other							0.00
TOTAL EXPENSES							-42,741.68
TOTAL INCOME/EXPENSE							92,436.64 ~ 22,406.64
BALANCE FORWARD							
fuzzy-92							
6/ 1/92	fuzzy-9		Opening Balance			[fuzzy-92]	-30,000.00
Total fuzzy-92							-30,000.00
fuzzy-93							



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

June 5, 1992

Some statistics on the *IEEE Transactions on Neural Networks*.

Printing run:	9650 Copies per issue
Current Pages	960 Pgs per year/921 useful
Backlog	May 1993
Submission frequency	~1.5 papers/ business day
Current Paper Count	1285
Correspondance (30 days April-May)	238 (12 per business day)

Robert J. Marks, Editor-in-Chief
IEEE Transactions on Neural Networks

Neural Networks Advertising Revenue

PO/Advertiser	ISSUE	Size	Amount	Status
Elsevier	Feb92	1/2page	\$600	pd
IJCNN Baltimore	Feb92&Nov91	full+half	\$1,600	pd
Intelligence	Feb92	sixth	\$200	outstanding
IJCNN Singapore	May 91	half	\$600	outstanding
CBMS	Oct 91	half	\$600	pd
FBI	Oct 91	class	\$325	pd
Intelligence	May 91	class	\$100	pd
"	Oct91	sixth	\$200	pd
Hyperlogic	May 91	quarter	\$325	pd
Harness Dickey&Pearce	Oct91	quarter	\$325	pd
IJCNN Seattle	May 91	two thirds	\$725	outstanding
West Pub	May92	quarter	\$325	pd
Intelligence	May92	sixth	\$200	outstanding
IJCNN Beijing	Feb92	full	\$1,000	outstanding
MIT press	May92	half	\$600	outstanding
IJCNN Baltimore	May92	full	1,000	outstanding
Total Ad Revenue			\$8,725	

Newsletter report
June 6, 1992

Ad Policies

We do not normally bill for NNC sponsored conference ads or publications.

We billed for IJCNN ads because the INNS billed the conference for ads in their journal.

We do not charge for calendar announcements or "space available" ads, i.e. if we have extra space, we might run a full page announcement for a high interest conference not sponsored by NNC, but guaranteed space must be paid for.

Newsletter report
June 6, 1992

IEEE Neural Networks Council
Adcom Meeting, Baltimore IJCNN

IEEE Council on Neural Networks Newsletter Advertising Rates

Issues/year	1x	2x	3	x4
Full page: 9.5in x 7.25in; 24cm x 18.5cm	\$1000	\$1900	\$2800	\$3750
Half page 4.7in x 7.25in; 11.5cm x 18.5cm or 9.5in x 3.7in; 24cm x 9cm	600	1150	1700	2200
Third page: 9.5in x 2.5in; 24cm x 6cm or 4.75 in x 4.75 in; 12cm x 12cm	400	725	1050	1450
Quarter page: 4.7in x 3.7in; 11.5cm x 9cm	325	600	900	1000
Sixth page: 4.7in x 2.5in; 11.5cm x 6cm	250	475	625	800
Classified (per column inch):	\$50			

There is a \$25 surcharge for advertisements with halftones. Rates for color ads (one additional color only) will be provided on request. The Newsletter is printed in a 8 1/2 X 11 two- and three-column format. Classified ads will be typeset. Advertisers must provide camera ready copy or film (133 screen, rightside reading emulsion side down) for display ads. Checks should be made payable to the IEEE.

Ms. Rosalyn Snyder, Managing Editor
IEEE Neural Networks Council Newsletter
5630 Lakeside Drive
Pfaltown NC 27040
email: roz@relito.medeng.wfu.edu

ATTACHMENT #5

June 7, 1992

Proposal to NNC AdCom concerning a new award

At the suggestion of Prof. John Yen of Texas A&M University, and after a first round of discussion at the March 1992 NNC AdCom meeting, a proposal for a new award in the fuzzy systems area has been drafted. It is proposed for discussion and possible approval by the NNC AdCom; should it be approved, the proposal would go to the IEEE TAB Awards and Recognition Committee for their consideration and approval.

Two changes have been made to the award description as formulated by Prof. Yen. First: he proposed that the name be "IEEE Neural Network Council Zadeh Award" and it is not deemed appropriate to use the name of a living person in the award name. Second: the amount the award has been set at \$500 rather than a larger amount. This is deemed appropriate in view of the fact that our prestigious Pioneer Awards carry no cash award and our Transactions Paper Award carries a \$500 cash award.

What follows is the award description which is to be discussed and approved (subject to amendments) by the NNC AdCom.

Bradley Dickinson
IEEE NNC Awards Committee Chair

ATTACHMENT
#6

RWN 06/05/92

Draft #3
Neural Networks Council Awards
for Students in Countries with Blocked Currency

The Neural Networks Council (NNC) hereby sets up Awards for students in countries with blocked currencies. The guidelines for these Awards are as follows.

1. Source of funds

The funds for these Awards will be generated in association with a NNC sponsored meeting held within the blocked currency country. The funds may be budgeted in the meeting's budget or come from the meeting's surplus. Among these funds are:

a) Those generated in non-blocked currency outside of the blocked currency country and held at IEEE Headquarters in a "custodial account" specific to the Awards.

b) Those generated in blocked currency and held in the blocked currency country specifically for the Awards by a local IEEE chapter or section.

2. Award nature

The intent of these Awards is to allow students to enhance their studies in IEEE NNC related fields and activities. Therefore, these Awards are available to undergraduate and graduate students in the blocked currency country with the Awards' exact nature being determined to best fit the needs, such determination being made by the associated meeting's Chair (or designate) and the NNC Treasurer (or designate) in consultation with the local IEEE chapter or section Chairman holding custody of the local blocked currency. The Awards must conform to the IEEE Regulations on IEEE Student Recognition and Support. Typical Awards envisioned are:

a) Book subsidies, including NNC conference proceedings

b) NNC sponsored meeting registration

c) Travel expenses to attend NNC sponsored meetings

3. Award procedure

Students will apply to the associated meeting's Chair (or designate) in a manner determined by the meeting's Chair (or designate). Advertisement will be made prior to, during, and after the meeting in a manner best thought by the meeting's Chair (or designate) to inform the maximum number of interested students.

[Meetings Committee Block for Consent Agenda] ATTACHMENT #7

June 7, 1992. Transmitted by Jim Bezdek, Chair,
Meetings Committee of the NNC
to the ADCOM of the NNC

Motions of the Meetings Committee that were seconded
and passed unanimously on Saturday, June 6, 1992:

Guidelines: 1-2

- ① NNC-sponsored world congresses on computational intelligence (WCCI) will begin in 1994, and will be held no more often than every third year thereafter.
- ② In years that no WCCI is scheduled, there will be at most one NNC-sponsored conference for: ICNN, FUZZ-IEEE, VRAIS and GA/EP. Co-sponsorship and cooperating status for additional forums, workshops, etc. is not precluded by this.

Budget Items: 3-8

- ③ Budget for FUZZ-IEEE '93 / ICNN in San Francisco March 28-April 1, 1993 approved as submitted, pp. 94-98.
- ④ Request for additional \$50K seed money for FUZZ-IEEE '93 / ICNN approved.
- ⑤ Not a budget item
The name of the Nagoya ICNN, Oct. 26-29, 1993 ^{or WJCNN.} ~~will~~ ^{should} be changed to the JICNN. If this is unsatisfactory to the Japanese, the NNC ExCom is authorized to resolve the issue.
- ⑥ Budget for Nagoya ICNN (pp. 60-64) approved as submitted with amendments to name (IJCNN → JICNN) and to stipulation on p. 60: IEEE = 1/3, Other Societies = 2/3.
- ⑦ Request for additional \$20K seed money for VRAIS '93, 18-22 Sept., 1993 approved.

ATTACHMENT #9

IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE INFORMATION SCHEDULE

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full Title of Conference 1992 International Joint Conference on Neural Networks - Beijing
 (IJCNN '92 - Beijing) 2. Dates of Conference Nov. 3-6, 1992

3. Location of Conference (full name and address) _____

4. Estimated Attendance 500 (15 USA) 5. Exhibits Yes No

6. Will there be a Conference Publication? Yes No
 If yes, check one: Conference Record Other (explain) _____

IEEE ENTITY INVOLVEMENT

7. Identify IEEE entity involvement as either Sponsor, Co-Sponsor, Participating or Cooperating as defined on the reverse side. Enter below the names of all involved IEEE and non-IEEE entities and their percent of financial share.

	Name	Type of Involvement				Percentage
		S	CS	P	C	
Entity	<u>IEEE Neural Networks Council</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	% <u>see attached</u>
Entity	<u>China Neural Networks Council</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% <u>agreement</u>
Entity	<u>International Neural Networks Society</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	% _____
Entity	<u>IEEE Beijing Section</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____
Entity	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____
Entity	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____

8. Has the section within whose geographical boundaries the Conference is being held been notified? Yes No
 If yes, who was contacted? Zong Sha Beijing Section

9. Has an IEEE Conference Insurance Form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telephone number.

CONFERENCE CHAIRMAN Zong Sha (China) Russ Eberhart (USA) Tel.No. 5001144 ext 2310
 Address Chinese Inst. of Electronics, Nongzhanguan Nanlu, No. 12,
Room 2310, Beijing 100026, China Fax.No. 86-1-5005233
Russ Eberhart (outside China--see below)
INFORMATION CONTACT Russ Eberhart (USA) Tel.No. 919-541-7124
 Address Research Triangle Institute
PO Box 12194, Research Triangle Park, NC Fax.No. _____
27709

COMMITTEE MEMBERS

If available, please attach to this form a complete list of Conference Committee members, their titles, addresses, and telephone numbers.

SUBMITTED BY: Roy S. Nutter, Jr., Chairman Tel.No. 304/293-6371
 Address West Virginia University, Dept of Electrical & Computer Engg.
825 Engineering Sciences Bldg, Morgantown, WV 26506 Fax.No. 304/293-5024

Conference Position Treasurer (USA)

SIGNATURE RSN Date 6/5/92

RETURN TO: IEEE CONFERENCE SERVICES
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.
FAX: (908) 562-1571
KEEP A COPY FOR YOUR RECORDS

IEEE TECHNICAL ACTIVITIES
 IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART II: EXPENSE

form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to an accurate projection of your Conference's net surplus or loss.

NOTE: All expense items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference 1992 International Joint Conference on Neural Networks - Beijing
 (IJCNN '92 - Beijing) Dates of Conference Nov. 3-6, 1992

PROMOTION	Budget	Interim Report	Final Report
Printing/Call for Papers	\$ 3000	\$	\$
Printing/Advance Program			
Printing/Final Program			
Mailing Lists/Labels	1200		
Postage	800		
Other			
Total	\$ 5000	\$	\$
CONFERENCE PUBLICATION			
Conference Record/Digest Printing (China expense)	\$ 0	\$	\$
Author Kits Printing	0		
Shipping to Site and IEEE Hq.	0		
Total	\$ 0	\$	\$
EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)			
Total	\$ 0	\$	\$
SOCIAL FUNCTIONS (Itemize event on separate sheets.)			
Total	\$ 0	\$	\$
ADMINISTRATION			
Insurance & Bonding	\$	\$	\$
Security & Guard Service			
Communication Equip. Rent & Operator			
Management, Secretarial Services	500		
Office Equip. Rental			
Printing forms, Tickets, Stationery, Etc.			
Posters, Signs, Badges, Etc.			
Telephone	1000		
Transportation			
Gratuities, Etc. (Attach Details)			
Total	\$ 1500	\$	\$
ALL OTHER			
Committee Expenses	\$	\$	\$
Other (Attach Details)			
Total	\$ 0	\$	\$
TOTAL EXPENSES	\$ 6500	\$	\$

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: U.S. Dollars

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars - at the current conversion rate when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name Roy S. Nutter, Jr Tel. No. (304) 293-6371
 Address West Virginia University, Dept of Electrical & Computer Engg. PO Box 6101, Morgantown, W
 Conference Position IEEE NNC Treasurer, Finance Chair USA for IJCNN '92-Beijing 26506-6101

SIGNATURE R S Nutter Date 6/5/92

:: BE SURE TO COMPLETE AND RETURN ALL FINANCIAL FORMS TOGETHER ("SUMMARY REPORT", "PART I: INCOME", "PART II: EXPENSE" AND "SOCIAL FUNCTIONS").

RETURN TO: IEEE CONFERENCE SERVICES
 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

A G R E E M E N T

From: rsn@

Subject: Forwarded mail...
To: rsn@faculty.coe.wvu.wvnet.edu
Date: Thu, 16 Apr 92 17:10:22 EDT

STRUCTURE OF IJCNN '92 - BEIJING

Following is a structure for the neural networks meeting in Beijing (IJCNN '92 - Beijing). The main points are following:

I. Name of the conference: 1992 International Joint Conference on Neural Networks - Beijing (IJCNN '92 - Beijing)

II. Participating Societies:
The IEEE Neural Networks Council
The China Neural Networks Council
The International Neural Network Society
The IEEE Beijing Section

Due to the termination of the agreement between IEEE NNC and INNS, there will be no leading society, and no direct or special cooperation between IEEE NNC and INNS. Both organizations will cooperate with CNNC separately and bilaterally.

III. Collection of papers:
Both IEEE NNC and INNS will collect papers and register participants independently outside China. CNNC will collect papers and register participants within China. All camera-ready papers must be sent to CNNC before the end of June, 1992. CNNC will be responsible for printing the proceedings of the conference.

IV. Financial Relationship:

1. Registration fee structure:

	before Sept. 30	after Sept. 30
Member	US \$325	US \$375
Non-member	375	425
Student	120	120

2. The registration fees of attendees collected by IEEE NNC will be divided between CNNC and IEEE NNC. IEEE NNC will retain US \$200 for each non-student attendee and \$60 for each student attendee. The balance will be transferred to CNNC no later than one month before the commencement of the conference for those registrations received by that time, and within one month following the conference for those registrations received later. The same division also will be applied between the CNNC and INNS. There will be no financial relationship between IEEE NNC and INNS.

V. Responsibilities:

CNNC:

1. Proceedings printing
2. Conference rooms, coffee breaks, hotel selection

ATTACHMENT
#10

Video Tutorial: Status Report

Second Report, Baltimore 1992

By M. A. El-Sharkawi

Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195
Phone: (206) 685-2286
FAX: (206) 543-3842
e-mail: elsharkawi@ee.washington.edu

Role of the NN Council

- o To establish the Video Tutorial Committee
- o To approve the tutorial budget
- o To partially fund up to 5 programs per year
- o To advertise the tutorial in the Council news letter
- o To suggest topics and speakers to the Video Tutorial Committee

51

Role of the Video Tutorial Committee

- o To select topics with wide interest
- o To select speakers
- o Maintain the cost of the tape to a minimum
- o Coordinate the taping activities with IEEE
- o To do quality control
- o To monitor and adjust the budget
- o To allocate the discretionary fund on case by case basis

Sale price and Royalties

- o \$ 89.95 for members of IEEE (\$99 was proposed in Seattle)
- o \$ 119 for non-members
- o Most sales are probably for members

Amount invested by NN Council per title (\$)	Royalties per copy (\$) (First 150 copies)	Royalties per copy (\$) (Each additional copy)
375	2.5	2
750	5.0	4.0
1,500	10.0	8.0
3,000	20.0	16.00

NN Pioneer Lectures Series

Sponsor: NNC

Coordinators: M. A. El-Sharkawi and Peter Wiesner.

1. Teuvo Kohonen: "Adaptive Vector Quantization and Neural Networks," Completed in May 1992 at Helsinki University Facilities. It is in the editing stage.
2. Bernard Widrow: Is scheduled for June/July time period at Stanford University's Instructional Television Network.
3. Stephen Grossberg: Negotiations are continuing regarding the quality of visual material for video production.

THE THEORY AND APPLICATIONS OF FUZZY LOGIC (Continue)

- 4 "Fuzzy Logic and Neural Networks for Control Systems,"
presented by H.R. Berenji, NASA Ames Research Ctr.
- 5 "Fuzzy Logic and Neural Networks for Pattern Recognition,"
presented by James C. Bezdek, University of West Florida
- 6 "Fuzzy Logic and Neural Networks for Computer Vision,"
presented by Professor James Keller, University of Missouri

Status:

Tapes have been edited and will be sent to M. A. El-Sharkawi for
final review by the end of June, 1992.

Proposed Future Videos:

1. Applications Series

- Proven Applications in Laboratories or industry
- Have wide interest
- Explicitly presented

2. Selected topics

- Virtual Reality
- Genetic Algorithms
- Evolution Algorithms

IEEE COMPUTER SOCIETY
Board of Governors/Executive Committee

DISCUSSION ITEM

COMPUTER SOCIETY PARTICIPATION IN THE
IEEE NEURAL NETWORKS COUNCIL

Duncan H. Lawrie
1991 President
Chair, Intersociety Cooperation Committee

The IEEE Neural Networks Council was formed several years ago, with the participation of several IEEE technical societies. The Computer Society is a constituent society of the Neural Networks Council but, for reasons which are not now well-understood, did not join the council. Neural networks and other forms of intelligent systems work is obviously central to the field of interest of the Computer Society. Neural network research and applications are frequently covered in society periodicals, including *Computer*, *IEEE Expert* and *IEEE Transactions on Knowledge and Data Engineering*. The IEEE publishes a transactions on neural networks. Out of 6,700 subscribers, over 4,000 are Computer Society members. In addition, the IEEE Technical Activities Department recently approved an additional transactions to IEEE publications in fuzzy systems.

The following resolution is recommended:

MOVED, that the Board of Governors of the IEEE Computer Society approves the society joining the IEEE Neural Networks Council, and authorizes the president to execute all necessary documents and agreements to make the society a full member of the Council.

DHL:lsb
May 14, 1992

63

REVISED
SUMMARY OF ACTIONS
Technical Activities Board
August 1, 1992

(PLEASE NOTE: Disregard the TAB Summary of Actions previously sent out as several items have been expanded for clarity.)

The following actions were taken during the Technical Activities Board meeting held August 1, 1992 at John Ascuaga's Nugget, Sparks, Nevada.

1. Approved the establishment of the IEEE Lasers and Electro-Optics Society Outstanding Chapter Service Award.
2. Approved revisions to the following awards:
 - o IEEE Engineering in Medicine and Biology Society Student Regional Finalist Awards
 - o IEEE Engineering in Medicine and Biology Society Student Open Competition Finalist Awards
 - o IEEE Engineering in Medicine and Biology Society 1st, 2nd and 3rd Place Student Competition Awards
3. Reaffirmed approval of the new Transactions on Rehabilitation Engineering, sponsored by the IEEE Engineering in Medicine and Biology Society, and the new Parallel and Distributed Computing Technology and Applications Magazine, sponsored by the IEEE Computer Society, for publication beginning in 1993.
4. Endorsed for recommendation of approval by the IEEE Board of Directors modifications to IEEE Bylaws 310 governing the operations of the Technical Activities Board to reflect changes in the TAB structure as approved by TAB during its April, 1992 meeting.
5. Approved modifications to the TAB Council and Committee Charters incorporating the changes in the TAB structure as approved by TAB during its April, 1992 meeting.
6. Based on revisions to the TAB structure, approved a revised TAB Meetings Format that will condense the meeting series effective in 1993.
7. Approved redefining the APP income distribution based on the smaller of the list price or the price calculated from the number of equivalent pages and the linear regression fit to the list prices of all publications in the package.

TAB Summary of Actions
Page 3

13. Approved a resolution that \$362K of 1993 contributions to the IEEE General Fund be expensed out of TAB Operating Budget and reserves and \$250K from the All Periodicals Package.
14. Recommended the 1993 TAB Budget for approval by the Board of Directors.
15. As requested by the IEEE Publications Board, approved the IEEE Dielectrics and Insulation Society's request to change the title of IEEE Transactions on Electrical Insulation to IEEE Transactions on Dielectrics.
16. Accepted the reports of the TAB Society Review Committee on the review of the following Division II entities:
 - o IEEE Dielectrics and Electrical Insulation Society (DEIS)
 - o IEEE Power Electronics Society (PEL)
17. Approved a \$23K expenditure from the TAB New Ventures Fund in support of the development of five new TAB/IEEE Press Books from tutorials and workshops with emphasis on emerging technologies and design and applications.
18. Requested the IEEE Treasurer to examine the IEEE process for paying bills to the Societies/Councils promptly.
19. Accepted the document, "The Value-Added by IEEE Technical Activities to the Societies and Technical Councils."
20. Requested the Vice President - Publications to develop a procedure for handling appeals at the Institute level on decisions made by editors of IEEE Publications.
21. Elected John Morris as Society Presidents' Forum Chair for the term 1993.
22. Elected Jan Brown and Lloyd (Pete) Morley as Division Director Representatives to the TAB Nominations and Appointments Committee for the term mid-year 1992-1994.
23. Elected Randall L. Geiger and Gerald F. Harris as Society President Representatives to the TAB Nominations and Appointments Committee for the term mid-year 1992-94.
24. As requested by the TAB Liaison Council, approved a request that Societies be encouraged to take steps to create specific mechanisms for assisting "at risk" scientists and engineers in Eastern Central Europe.

TAB Summary of Actions
Page 5

34. For schools that do not have an appropriate department for formation of an IEEE Student Branch, approved a resolution that any Society wishing to pursue a student multidisciplinary program, funded by the participating Society(s), TAB would welcome a pilot program. The results of this pilot program to be reported back to TAB.
35. Postponed a proposal that the term "Society affiliate" be replaced with the term "Society Member" to the next TAB meeting.
36. Opposed recommendation of IEEE Executive Committee to impose mandatory half dues for current Life Members.
37. Reached a consensus that current Life Members should be encouraged to make voluntary contributions and consider mechanisms whereby Life Members may select different levels of services commensurate with a corresponding level of payment.
38. As requested by the RAB/TAB Transnational Committee, approved a proposal to take the necessary action to define the mission of IEEE relevant to a global constituency, and encourage initiatives of volunteers in Regions 8-10 to form new IEEE technical entities.
39. As requested by the RAB/TAB Transnational Committee, referred to the IEEE Strategic Planning Committee a proposal for a thorough analysis of alternative schemes for geographical and technical organizations that adequately represent those membership characteristics.



TRANSACTIONS ON NEURAL NETWORKS
 NEURAL NETWORKS COUNCIL



Robert J. Marks II
 Editor-in-Chief

PLEASE REPLY TO:
 University of Washington
 Department of Electrical Engineering
 c/o 1131 198th Street S.W., Suite N
 Lynnwood, WA 98036-7138 USA

November 13, 1992

Video Review

Russell Eberhart, President
IEEE Neural Networks Council
 Research Triangle Institute
 P.O. Box 12194
 Research Triangle Park, NC 27709

IEEE Transactions on Neural Networks, Editor's Report

1. From November 30, 1991 through November 17, 1992, the *IEEE Transactions on Neural Networks* has received 519 manuscripts (including book reviews and special issue papers, but not letters).
2. Approximately 60% of the *IEEE Transactions on Neural Networks* is published electronically.
3. Delay in publication after receipt of a manuscript by IEEE is from six to eight months. The 10% increase in pages approved during the last AdCom meeting was not received in time for IEEE to process for 1993, and needs to be included in the 1994 budget. Is this increase enough?
4. Page charges are honored each issue from one to six papers each issue. An (incomplete) sample:

Review

January 1992	1 paper	\$770
March 1992	4 papers	\$4290
May 1992	4 papers	\$3520
June 1992	6 papers	\$6950

Special Issues (Sept & Nov are half issues)

May 1992	Hardware	(Newcomb & Sanchez-Sinencio)
September 1992	Evolutionary Programming	(Fogel)
November 1992	Recurrent NN's	(Giles & Williams)

6. A report of the actions of Ms. Hall concerning publishing of the Kosko book review is attached.

Sincerely,

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks

Dear Russ:

Since I was placed in the difficult role of ombudsman, I have spoken to Bob Marks and you, have read Pat Simpson's review, as well as other reviews of Bart Kosko's book, and finally, have read the detailed claim lodged by Dr. Kosko.

What is the issue I'm trying to arbitrate?

The issue is certainly no longer whether or not Mr. Simpson's book review is fair or accurate. I would agree that all critical analysis can be subject to diverse opinion. The issue is also not whether or not the Neural Networks Council's AdCom supports the publishing of this review.

The issue is whether or not, at the very least, a "perceived conflict of interest" can be successfully argued, and it does appear that Bart Kosko has adequate documentation to support this claim. Even if one allows for his natural bias, the fact that there is bad blood between the author and reviewer is clear. (The expeditious course of action might have been for Mr. Simpson to declare himself ineligible as a reviewer.)

The issue, then further becomes whether or not the IEEE can allow itself to be placed in the middle of the type of feud--and more to the point--whether or not the IEEE can be in a position where it does not support its own code of ethics--

"2. to avoid real or perceived conflicts of interest whenever possible, and to disclose them to affected parties when they do exist." (from IEEE Code of Ethics)

The answer is, of course, no.

Russ, perhaps I am passing the buck back to you, but as President of the IEEE Neural Networks Council, I would hope that you would relieve the IEEE of this untenable position and effectively see that the Simpson review is not published in an IEEE publication.

Should you wish to pursue the matter further, I am sure John Powers would make himself available to you. A final recourse would be to bring it to the Publications Board on November 1, in West Palm Beach.

We are still holding the September issue--awaiting resolution.

Sincerely,

(s) Phyllis

Phyllis Hall, Staff Director
Publishing Services

cc: Bob Marks
Tom Cain
John Powers
Don Crawley

[Faint, illegible handwritten text, possibly bleed-through from the reverse side of the page. The text is mostly obscured by the dark background and noise.]

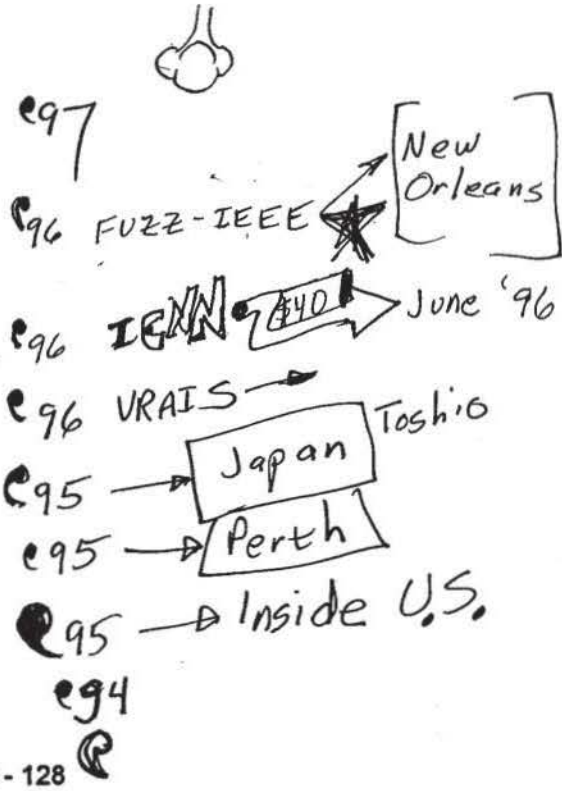
PROPOSED AGENDA
NNC ADCOM MEETING
Scottsdale, Arizona
December 5-6, 1992

1. Introduction of attendees and presentation of proxies - 3
2. Approval of Agenda
3. Approval of Minutes of June, 1992, meeting - 10
4. Reports
 - a. Officer Reports
 - President
 - Summary of recent TAB actions - 65
 - Asia Neural Networks Association
 - Center for History of Electrical Engineering - 70
 - Vice President
 - Treasurer
 - 1993 Budget status
 - Secretary
 - b. Editor Reports
 - Transactions on Neural Networks - 71
 - Transactions on Fuzzy Systems
 - NNC Newsletter
 - c. Standing Committees
 - Awards Committee
 - Education Committee
 - Fellows Committee
 - Meetings Committee - 75
 - Rostov-on-Don Symposium (Snyder)
 - Beijing IJCNN (Eberhart)
 - ICNN '93 and FUZZ IEEE '93 (Ruspini)
 - WWW Meetings, July & October 1993 (Fukuda)
 - Nagoya '93 IJCNN (Fukuda)
 - Inverse Forum (Marks)
 - Power Forum '93 (Marks)
 - SP Forums (Marks)
 - VR Conference (Marks)
 - VR Workshop (Fukuda)
 - WCCI '94 Orlando (Bezdek)
 - Publications Committee - 109
 - Standards Committee - 110
 - d. Other Reports
 - CD Conference Proceedings - 112
 - Ad Hoc Committee on Council Structure
 - Ad Hoc Committee on Additional Publications - 115
 - Video Tutorials (El-Sharkawi)
 - Regional Interest Groups (Allen)
5. Consent Agenda
 - a. Appointments of Associate Editors - 120
 - b. Reappointments of Standing Committee Chairs
 - c. Acceptance of Social Implications of Technology Society - 121
as a member of the NNC
 - d. Delegation of IEEE Standards authority to Standards Committee - 128

- * CD-ROM
 - Budget
 - Point Man
- * \$5k Secretary
- * Cooperating
- * \$12k → Coordinate w/ Jim
- * URAIS Budget

Action:
* Send Stamatis Assoc. Editors

Nominations ← Budget



6. Discussion Items
 - a. San Francisco Conferences
 - b. Portland Conference
 - c. VRAIS '93 Seattle
 - d. Nagoya Conference
 - e. '94 World Congress
7. Old Business
 - a. Council Structure
 - b. Council Name Change
8. New Business
 - a. NNC Membership
 - b. New Conference Activities
 - c. Establishment of Regional Interest Groups
 - d. Council History
 - e. Next meeting at ICNN/FUZZ IEEE '93 in San Francisco

IEEE NEURAL NETWORKS COUNCIL
November 15, 1992

NNC EXECUTIVE COMMITTEE (ExCom) (1992)

President

Russell C. Eberhart
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709
(919) 541-7123 (O)
(919) 481-4269 (H)
rce@rti.rti.org
fax: 919-541-8746

Vice President

Patrick K. Simpson
Orincon Corporation
9363 Towne Centre Drive
San Diego, CA 92121
(619) 455-5530 ext. 267 (O)
xm8@sdcc12.ucsd.edu
fax: 619-453-9274

Treasurer

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506
(304) 293-6371, ext 510
rsn@a.coe.wvu.wvnet.edu
FAX: (304) 293 5024
(H) (304) 599-8838

Secretary

Toshio Fukuda, Chair
Nagoya University
Department of Mechanical Engineering
Furo-Cho, Chikusa-Ku
Nagoya, Japan
81 52 781-5111, Ex. 4478, 3301
FAX: (052) 781-9243
d43131a@nucc.cc.nagoya-u.ac.jp
81-3-3268-2545 (H)

Past President

Robert J. Marks II
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA98195
(206) 543-6990
marks@milton.u.washington.edu
FAX: (206) 543-3842

STANDING COMMITTEES

Publications Committee

Stamatios Kartalopoulos w 908-949-2811
AT&T Bell Laboratories f 908-949-6036
Rm 3C-309 e svk@hotstone.att.com
101 Crawfords Corner Rd.
P. O. Box 3030
Holmdel, NJ 07733-3030

Transactions Editor

Robert J. Marks II, Editor-in-Chief
IEEE Transactions on Neural Networks
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street SW, Suite N
Lynnwood, WA 98036-7138
(206) 543-6990
marks@milton.u.washington.edu
FAX: (206) 543-3842

Awards Committee

Bradley Dickinson, Chair
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
bradley@ivy.princeton.edu
(609) 258 -4644
FAX: (609) 258-3745

Fellows Committee

Robert W. Newcomb, Chair
Microsystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD 20742
FAX 301-314-9281
301-405-3662 (O)
newcomb@eng.umd.edu
301-662-0177 (Home)

Meetings Committee

James C. Bezdek, Chair
Nystul Professor
The University of West Florida
Computer Science
11000 University Parkway
Pensacola, Florida 32514-5750
(904) 474 2784
(904) 479 3817 (H)
FAX 904 474 2096
jbezdek@uwf.bitnet

Standards Committee

Walter Karplus, Chair
3732 Boelter Hall
UCLA
Los Angeles, California 90024
(213) 825-2929 ac310
FAX (213) 825-2273
karplus@cs.ucla.edu
Home: (213) 472-8632

Education Committee

Robert W. Newcomb, Chair
Microsystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD 20742
FAX 301-314-9281
301-405-3662 (O)
newcomb@eng.umd.edu
301-662-0177 (Home)

COUNCIL MEMBER SOCIETY REPRESENTATIVES

Circuits and Systems

Edgar Sanchez-Sinencio (1991-92)
Dept. of Electrical Engineering
Texas A&M University
College Station, Texas 77843
(409) 845 7498
FAX (409) 845 7161
sanchez@ee.tamu.edu

Robert W. Newcomb (1992-93)
Microsystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD
FAX 301-314-9281
301-405-3662 (O)
newcomb@eng.umd.edu
301-662-0177 (Home)

Communications

Kesh Bakhru (1991-92)
Cubic Corporation
9333 Balboa Avenue
San Diego, CA 92123
(619) 277-6780, ext. 2648
FAX: 619-277-8819

Stamatios Kartalopoulos (1992-93)
AT&T Bell Laboratories, Room 3C-309
101 Crawfords Corner Rd.
P. O. Box 3030
Holmdel, NJ 07733-3030
svk@hotstone.att.com

Computer Society

Oscar N. Garcia
Electrical Engineering & Computer Science
The George Washington University
801 22nd Street N. W. - Room 633
Washington, DC 20052
202-994-6569
o.garcia@ieee.org

Prof. Benjamin W. Wah
University of Illinois
Coordinated Science Lab.
1101 W. Springfield Avenue
Urbana, IL 61801
217-333-3517
fax 217-244-7175

Control Systems

Herbert E. Rauch (1991-92)
Lockheed 92-30/250
3251 Hanover Street
Palo Alto, CA 94304
(415) 424-2704
FAX: (415) 424-3106

Bradley Dickinson (1992-93)
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
bradley@ivy.princeton.edu
(609) 258-4644
(609) 258 2916 (Dean's Office)
FAX: (609) 258-3745
(415) 895 0647 (H)

Engineering in Medicine and Biology

Shiro Usui (12/93)
Physiological Engineering Lab
Information and Computer Sciences
Toyohashi University of Technology
usui@tut.ac.jp@relay.cs.net
Hibarigaoka Tenpaku
Toyohashi, Japan 441
+81 532 47 0111
FAX +81 532 46 7806

Charles J. Robinson (1991-92)
Rehabilitation R&D Center
Hines VA Hospital
P.O. Box 20
Hines, IL 60141
(312) 343-7200 Ext. 2240

Industry Applications Society

George E. Cook (12/92)
Vanderbilt University
Box 2215, Station B
Nashville, TN 37235
(615) 322-2259

Bimil K. Bose (12/93)
Dept. of Elec. Engg.
Ferris Hall 419
University of Tennessee
Knoxville, TN 37996
615-675-9505
fax 615-974-2669

Industrial Electronics

H. Troy Nagle (12/92)
Electrical and Computer Engineering
North Carolina State University
Box 7911
Raleigh, NC 27695-7911
t.nagle@ieee.org
919-515-3578 (O)
919-515-7382 (Fax)

Evangelia Micheli-Tzanakou (12/93)
Biomedical Engineering
Rutgers University
P. O. Box 909
Piscataway, NJ 08855-0909
etzanako@nova.rutgers.edu
908-932-3155, 2037 (O)
908-932-3753 (Fax)

Information Theory

Anthony Kuh (1991-92)
University of Hawaii at Manoa
Honolulu, HI 96822
(808)-948-7576
kuh@wiliki.eng.hawaii.edu

Terrance L. Fine (1992-93)
Cornell University
School of Electrical Engineering
Phillips Hall
Ithaca NY 14853
607 255 3643
tlfine@sibelius.ee.cornell.edu

Lasers and Electro-Optics

Dr. Tien-Hsin Chao (12/93)
Jet Propulsion Laboratory
M/S 300-329
4800 Oak Grove Drive
Pasadena, CA 91109

Nabil H. Farhat (1991-92)
Moore School of Eng.
University of Pennsylvania, D-2
33rd and Walnut Sts.
Philadelphia, PA 19104
215 898 5882
farhat@pender.ee.upenn.edu

Oceanic Engineering Society
Richard Trueblood (1990-91)
Orincon Corporation
9363 Towne Centre Dr.
San Diego, CA 92121

Karen Haines
2446 Newport Avenue
Cardiff, CA 92007
h 619-436-7314
w 619-455-5530 ext. 343
comtec!orincon!karen@ucsd.edu

Power Engineering Society
Prof. Robert Fischl
Dept. of Electrical Engineering
Drexel University
32nd and Chestnut Streets
Philadelphia, PA 19104

Prof. M. A. El-Sharkawi
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Robotics and Automation
Thomas Miller (1990-91)
Dept. of Elec. and Computer Engineering
Kingsbury Hall
University of New Hampshire
Durham, New Hampshire 03824
(603) 862-1326
t_miller@unhh.unh.edu

Wesley E. Snyder (1991-92)
Dept. of Radiology
Bowman Gray School of Medicine
300 S. Hawthorne
Winston-Salem, NC27103
(919) 748 3908 (O)
(919) 748 2870 (Office fax)
(919) 922 1633 (H)
(919) 922 1633 (FAX)
wes@relito.medeng.wfu.edu

Signal Processing
Les E. Atlas (1991-92)
Interactive Systems Design Laboratory
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA98195
(206) 543-1315
les@isdl.ee.washington.edu
FAX:(206) 543-3842

Richard P. Lippmann (1990-91)
MIT Lincoln Laboratory
P.O. Box 73
Lexington, MA02173
(617) 981-2711
rpl@sst.ll.mit.edu

Social Implications of Technology
Donald C. Wunsch II, Ph.D.
Boeing Computer Services
P. O. Box 24346, MS 6C-04
Seattle, WA 98124-0346
206-477-5073
fax 206-477-1001
email dwunsch@atc.boeing.com

Rick Alan
TRW Safety Systems
4051 North Higley Road
Mesa, AZ 85205
602-396-1268
fax 602-396-2108
email 70324.1625@compuserve.com

Systems, Man, and Cybernetics
Don E. Brown (1990-91)
Dept. of Systems Engineering
University of Virginia
Charlottesville, VA 22903-
(804) 924-5393
deb@virginia.bitnet

James M. Tien (1991-92)
Dept. of Decision Sciences & Eng. Sys.
Rensselaer Polytechnic Institute
Troy, New York 12180-3590
(518) 276 6486
FAX (518) 276 8227
jmtien@rpitsmts.bitnet

ICNN/FUZZ IEEE '93 CONFERENCE CHAIR
Enrique Ruspini
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park, CA 94025
415-859-2314
ruspini@ai.sri.com

7/16/92
DRAFT

Minutes of the Administrative Committee
of the IEEE Neural Networks Council
Sunday, June 7, 1992
Baltimore, Maryland

Meeting called to order at 9:10 a.m. at the Baltimore Convention Center by President Eberhart.

Introductions were made.

PRESENT: (* denotes voting member) Eberhart*, Fukuda*, Marks*, Nutter*, Simpson*, Trueblood*, El-Sharkawi*, Karplus, Snyder*, Brown*, Kartalopoulos*, Newcomb*, Zurada, Sanchez-Sinencio*, Wah*, Robinson*, Lau, Nagle*, Garcia*, Bezdek, Ruspini, Dickinson*, Usui*, Tzanakou*, Kuh*.

OBSERVERS: Sha and Wu, IEEE Beijing Section and Chinese Neural Networks Society

Minutes Recorder: F. Eberhart

Eberhart declared a quorum.

Agenda in Blue Book adopted with the following changes:

- Under New Business - Add discussion of Technical Committees
- Item 13 - Next meeting

MOTION: Agenda adopted as revised. PASSED.

MINUTES OF SAN DIEGO AD COM:

Minutes of March, 1992 AMENDED. 'Hertz' to be changed throughout to 'Herz'.

MOTION: Accept Minutes as corrected. PASSED.

COMMENT: Nutter requested that minutes be complete and stand alone.

PRESIDENT'S REPORT:

The Baltimore IJCNN Proceedings are on CD ROM; these are the first in the history of the IEEE, and the team responsible for the project's success, headed by Dr. Mani Soma of the University of Washington, is to be commended.

The Forum on Combinations of Genetic Algorithms and Neural Networks, held one day before the IJCNN, was a success, with about 84 paid attendees. The Proceedings of the Symposium will be represented by selected papers that will be published in expanded form as a hard-bound book by the IEEE Computer Society.

VICE PRESIDENT'S REPORT:

Simpson indicated he had no report.

TREASURER'S REPORT:

Nutter discussed the summary on Page 82 of Blue Book.

Nutter distributed the 1993 budget (Attachment #1).

MOTION: Approve the budget.

DISCUSSION: There were still items in this meeting that would have an impact on the budget.

MOTION: Defer motion to last item on agenda. Passed.

SECRETARY'S REPORT:

Fukuda indicated that he had no report.

EDITORS' REPORTS:

Neural Networks Transactions Editor's Report (Marks)

-Upcoming special issues on hardware, evolutionary programming, and fuzzy systems.

-Statistics on the Transactions on Neural Networks (Attachment #2).

MOTION: NN Transactions rate for nonmembers be raised from \$95 to \$114 as suggested by IEEE.

DISCUSSION: This will primarily impact the library all-transactions package. MOTION PASSED.

Fuzzy Transactions Editor's Report (Bezdek):

-Fuzzy Transactions was approved by IEEE.

ACTION: Bezdek will contact Phyllis Hall.

The budget for the Fuzzy Transactions has been approved by all required IEEE entities.

Newsletter Editor's Report (Snyder).

Snyder distributed the Newsletter budget (Attachment #3).

MOTION: Approve the budget for Newsletter as submitted in Attachment #3.

DISCUSSION: Cost could be reduced by mailing Newsletter and Transactions in same mailing.

MOTION PASSED.

AWARDS COMMITTEE:

Pioneer Awards: Dickinson distributed the Press Release (Attachment #4). Amari, Freeman and Willshaw were recommended to receive this year's Pioneer Awards. MOTION: AdCom ratify these award recipients. PASSED.

Transactions Award: There were no nominations for Transactions Award. The award will thus not be given this year. Dickinson distributed the award proposal (Attachment #5).

MOTION: (Dickinson) To approve the 'IEEE Neural Networks Council Fuzzy Logic Technology Award'.

DISCUSSION: Such an award could be broadened to include any field within the Council's field of interest.

AMENDMENT: Delete 'fuzzy logic' from description and text of award and make it applicable to cover all technology covered by the Council's Field of Interest.

CONSENSUS: Word-smithing could be performed by the Awards Chair.

AMENDMENT PASSED.

AMENDED MOTION PASSED.

CONSENSUS: An award should be initiated for the best paper in the IEEE Transactions on Fuzzy Systems. Dickinson continued his report: The estimated budget for awards would be about the same for next year.

EDUCATION COMMITTEE:

Newcomb distributed Attachment #6. He noted that there is a lot of IEEE red tape for scholarship awarding.

MOTION: Approve Attachment #6 for countries with block^{ed} currency.

DISCUSSION: Support of student participation in Council conferences should be a line item in each conference budget.

ACTION: Simpson will be drafting this manual, and will include this in the draft to be presented to AdCom.

MOTION: Table the Motion. PASSED.

Newcomb continued with his report: There is no request for a budget for education. ISSNNET has not requested this money.

FELLOWS COMMITTEE REPORT:

Newcomb reported that the Council was handling two nominations.

RESOLVED: Senior members that are Transactions subscribers should be considered as Fellow possibilities.

ACTION: If Newcomb will identify, Eberhart will send letters.

MEETINGS COMMITTEE:

The minutes of June 7, 1992 Meetings Committee are in Attachment #7, including material regarding the proposed 1995 FUZZ IEEE meeting in Japan. Items 1 through 12 were placed one-by-one on the floor as motions from Committee. Each was PASSED.

Singapore: Eberhart reported that the final audit had been promised but had not yet been received.

FUZZ-IEEE '92: Bezdek reported a surplus of about \$88k. Marks commented that the quality of the papers was quite high.

Rostov-on-Don: Snyder reported that a number of agencies were being contacted concerning report. A preliminary geographical breakdown of paper submissions is in Attachment #8.

Beijing: Dr. Sha reported that all was ready for the conference. Many social events are planned in conjunction with the conference. A call for papers is on Page 88 of the Blue Book. Nutter submitted a budget for Beijing (Attachment #9).

MOTION: Approve the budget and agreement in the Blue Book. Passed.

FUZZ-IEEE '93 / ICNN '93: Ruspini indicated that posters and publicity for both conferences had been generated. The budget is on Pages 94-100 of the Blue Book.

MOTION: Pass the Budget.

DISCUSSION: Do an Early Early of \$195 and keep late registration to under \$400.

MOTION PASSED.

MOTION: Forward the balance of seed money in budget just approved.
PASSED.

Inverse Forum: Marks said there has been no activity with this meeting.

Power Forum: El-Sharkawi reported all was going quite well. The Council is a cooperating Society in this meeting.

SP Forum: Marks said the Council is a cooperating Society for this Copenhagen meeting. The Council's name, though, appears on none of the meeting's literature.

VRAIS: Marks reported he is close to signing hotel contract.

Nagoya was discussed. The budget appears on Page 60 of the Blue Book.

MOTION: Approve the budget as it appears in the Blue Book.

MOTION: Table above motion. PASSED.

DISCUSSION:

Discussion followed regarding the share of the budget risk that would be taken by the NNC. NNC previously approved a 1/3 share of the financial sponsorship of the meeting.

The possibility of changing the name of the Nagoya conference to something like the JICNN was discussed.

MOTION: Let NNC ExCom resolve this issue if JICNN or similar name is not acceptable to Japanese, with restriction that NNC cannot unilaterally sponsor an IJCNN. (INNS must agree.)
PASSED. (2 opposed.)

MOTION: To change from co-sponsorship to technical co-sponsorship because no profit or loss appears in the budget for the Nagoya Conference. DEFEATED. (4 in favor, 7 opposed.)

ACTION: Further discussion to sensitive issue of name change and its influence on Japanese participation.

ExCom and INNS and Japanese organizers need to discuss this issue.

MOTION: Take Nagoya budget question off the table. PASSED.

MOTION: Accept Nagoya budget with name change. ExCom be authorized to negotiate a change to the name. IEEE has 1/3 financial responsibility and 2/3 is shared by other societies.

AMENDMENT: To remove 1/3 responsibility from the motion. DEFEATED.

MOTION TO DIVIDE THE QUESTION. PASSED.

MOTION: To approve Nagoya budget as it stands. PASSED.

MOTION: Approve ExCom's authority to negotiate name change. Approve NNC 1/3 participation and 2/3 from other societies.

AMENDMENT: Strike word responsibility. PASSED. (1 opposed.)

MOTION: PASSED. (10 in favor, 2 opposed.)

AMENDMENT: To replace the word "responsibility" with "involvement".
(See above MOTION.) PASSED.

MOTION: To change the budget to reflect above motions. Call the question. PASSED. (11 in favor, none opposed, 4 abstentions.)

Baltimore IJCNN: Lau said the current count was 1125 attendees. Tutorials were not doing well.

MOTION: The President will send a letter to Dr. Lau and conference staff expressing the Council's appreciation for doing a superb job.

PASSED by Acclamation.

VR Workshop (Robots and Human Interface):

Fukuda gave a report on this workshop to be held in Japan.

RESOLUTION: Fukuda will bring information on this meeting and request Technical Co-Sponsorship from the Council.

WCIS: Robinson said action on this major event would commence immediately, and expected participation from all members of AdCom.

DISCUSSION: The name of the Conference might better be the World Congress on Computational Intelligence, especially if the Council changes it's name.

MOTION: World Congress on Intelligent Systems be allocated \$10,000 seed money. PASSED.

STANDARDS COMMITTEE: (Karplus) Budget is not adequate as Kaplus is now on Standards Board and attendance at four annual meetings is required.

MOTION: Augment budget for '92 to raise it from \$8,000 to \$10,000 and in '93 to 12,000. PASSED.

NOMINATIONS COMMITTEE:

Marks discussed Page 109 in Blue Book.

PUBLICATIONS COMMITTEE:

Kartalopoulos reported that the Council's sponsored books are doing quite well at IEEE Press. Numerous proposals have been received from potential authors for Council books and willing reviewers for Council books. Other Societies are publishing special issues of Transactions and Magazines on Neural Nets and Fuzzy Systems.

IEEE Press has two initiatives on interface with other Publishers. The President has the authority to approve books recommended by the Publications Committee. Suggest President appoint a subcommittee to deal with financing, name for publication, etc.

Due to the NN Transactions backlog, the Publications Committee suggested an applications-oriented journal. Increase page count of this Transactions or split into two.

ACTION: President Eberhart appointed a Publications Subcommittee of Marks, Simpson, El-Sharkawi, Snyder, Fukuda, with Brown as Chair.

MOTION: Motion to approve 10% increase in page number starting in 1993.

DISCUSSION: Suggestion by Dickinson to raise level of acceptance.

MOTION PASSED.

RESOLVED: Marks to pursue a 10% increase in pages for 1992 if there are no penalty charges.

Kartolopoulos turned the floor over to Marks regarding a matter concerning the Transactions. Hassoun, the book review editor, requested Simpson review Kosko's first book. Kosko got a copy of the review and claimed it was unfair. Marks, as Editor, took responsibility for the review, and subjected Simpson's review to two anonymous reviews. Both supported Simpson's review. Marks decided to publish, and wrote Kosko telling him so. The reviews of the review were also given to Kosko. (This material was distributed to the Publications Committee at their meeting). Kosko appealed the incident to Cain, the IEEE VP for Publications. Cain and Marks talked. Cain hoped the incident could be handled at the Conference level. Marks declared a conflict of interest in the matter, and gave the Publications Committee consent to make the editorial decision. The decision of the Publications Committee was to bring this to AdCom. Simpson then said that it was a mistake to give an author a copy of a book review prior to publication. He reminded AdCom that their decision would set policy for future reviews. Marks and Simpson then left the room to allow for more open discussion of the matter. Further discussion followed.

MOTION: Simpson's review will be published. Kosko is allowed a rebuttal of Simpson's review as a Letter to the Editor. Simpson will be allowed to addend a rejoinder. The rebuttal and rejoinder will appear in the same issue of the Transactions and will appear as soon as publication schedules allow. Editing will be performed by a person acceptable to both Kosko and Simpson. **PASSED.**

RECESS: A ten minute recess was called at 3:02 p.m.

VIDEO TUTORIALS AD HOC COMMITTEE:
El-Sharkawi distributed Attachment #10.

PIONEER VIDEOS: Kohonen has recorded. Widrow is scheduled for July. Negotiation is still under way with Grossberg.

THEORY & APPLICATION OF FUZZY LOGIC (jointly sponsored with EAB). Six tapes have been made and are in the process of being edited. Preliminary PR publication for sale of video tutorials is in

Attachment #11.

CD-ROM Report:

Marks reported on the activities of the TAB CREP Committee. The conferences held by the Council are scheduled to be on CD ROM.

ACTION: Eberhart appointed Nagel to see what CD ROM format is most commonly used by commercial producers.

REGIONAL INTEREST GROUPS:

Eberhart reported that the Arizona RIG Fuzztival was incredible.

ADMISSION OF NEW NNC MEMBER SOCIETIES:

MOTION: Admit the Power Engineering Society (Page 123 of Blue Book) and the Computer Society (Page 130 of Blue Book and Attachment #12).

FRIENDLY AMENDMENT: Admission of the Computer Society be contingent on receipt from the President of the Computer Society a letter stating that they agree to abide by the Constitution and Bylaws of the Council.

PASSED as Amended by Acclamation.

ELECTION OF OFFICERS FOR 1993:

The slate of officers on Page 109 of Blue Book were placed one by one on the floor by Marks. After requests in each case for further nominations drew no response, each officer was reelected by acclamation.

ACTION: Eberhart inform TAB of the election results.

NEW ASSOCIATE EDITORS:

MOTION: The editors listed on the Page 123 of the Blue Book be approved. PASSED.

DISCUSSION ITEMS:

Relationship with INNS:

IEEE will work with INNS as colleagues. We have never referred any of the disagreement to IEEE legal staff. We will attempt to deal with conferences activities on a case-by-case basis. Other discussion items were omitted by consensus.

OLD BUSINESS:

Council Name Change: Marks reported on the name change on Pages 133-137 of the Blue Book.

MOTION: Adopt the motion on Pages 133-137 of Blue Book.

DISCUSSION: The suggestion for the name change originated from Bezdek. The importance of name recognition was noted.

FRIENDLY ANENDMENT: Adopt the name change, "IEEE Council on Neural Networks and Computational Intelligence".

DISCUSSION: Eberhart read a statement on why he believes the NNC, by whatever name, should remain a Council rather than become a Society. (Attachment #13)

MOTION PASSED BY ACCLAMATION. (2/3 needed)

Robinson pointed out that the Constitution requires 25 days notice prior to an AdCom vote on Constitution changes.

ACTION: Eberhart was tasked with notification and coordination of the vote. There is still time before the next TAB meeting.

MOTION: To define ExCom as consisting of the elected officers and the editors of the Transactions, and to empower ExCom to act for the AdCom between AdCom meetings.

Computer Society representatives opposed the motion.

MOTION DEFEATED: (6 in favor, 8 against)

OLD BUSINESS

ACTION: Eberhart appointed Robinson to investigate a possible constitutional change to implement the intent of the defeated motion, and to report at the next meeting.

COUNCIL STRUCTURE: The Council has grown considerably, and it appears that a reorganization may be a good idea. For example, it may be that we now need two or three Vice Presidents; one for publications, one for meetings, etc.

ACTION: Nagle and Robinson will investigate and make recommendations at next AdCom meeting.

DISCUSSION: When a new person is appointed to the Ad Com, should we give them an orientation document? a handbook? a copy of the constitution?

OLD BUS.

ACTION: Tzanakou will develop a one-page summary of AdCom member duties.

COUNCIL HISTORY: Marks reported he had done nothing.

ACTION: Marks was retasked by Eberhart.

NEW BUSINESS:

BUDGET: MOTION to approve the budget subject to corrections by Ex Com with the interpretation of "corrections" being that numbers and bottom line are correct. PASSED.

CONFLICT OF INTEREST (Ruspini)

Ruspini elaborated on the petition on Page 138 of the Blue Book. He left the room to allow for open discussion.

MOTION: Dr. Ruspini may use his wife and son as secretary and graphics designer respectively with a combined limit of \$15,000 for the year. PASSED.

A discussion of the possible establishment of Technical Committees was deferred to a later date.

NEXT MEETING:

MOTION: Next AdCom will be held on about the 5th or 6th of December '92 next to TAB (currently scheduled at Arizona Biltmore Hotel in Scottsdale, AZ). PASSED.

DISCUSSION: Each Ad Com member will give a short synopsis of his/her own research at the next AdCom.

ACTION: F. Eberhart will coordinate room rates for NNC AdCom members at the Arizona meeting to be the same as that for TAB members.

ADJOURNED: The meeting was adjourned by President Eberhart at 5:22 p.m.

1

Recommended Budget 1993

NC-92-All Accounts
 6/ 6/92

Proposed Budget

Category Description	199 ³	Revised
INFLOWS		
Conf Genetic Alg and NN	-4,000	+1000
FUZZ-IEEE-92 Conference	60,000	+7900
FUZZ-IEEE-93 income	60,520	
IC on NN&SigProc Singapor	-5,000	
IJCNN Baltimore	50,000	
IJCNN Singapore 1991	0	
IJCNN-91-Seattle	55,000	
IJCNN-92 Balt CD-ROM	-15,000	
IJCNN-Nagoya Japan	0	
Interest on money	1,000	
Membership fees Trans NN	92,800	
Rostov-On-Don Russia Conf	-10,000	
VR Conf in Seattle	16,300	
TOTAL INFLOWS	301,620	
OUTFLOWS		
ADCOM Expenses	25,000	
Awards Travel/expense	1,500	
IEEE Service Fees	300	
Newsletter	21,300	26k
Presidents Expenses	10,000	
Regional Interest Groups	1,000	
Secretarial Expenses	200	
Standards Committee	6,000	
Trans on Neural Networks	185,200	
Treasurer's Expenses	1,500	
Vice Presidents Expenses	300	
TOTAL OUTFLOWS	252,300	
OVERALL TOTAL	49,320	

BUDGET
 1/ 1/92 Through 12/31/92

NNC-92-All Accounts
 6/ 6/92

Category Description	1/ 1/92 Actual	- Budget	12/31/92 Diff
INCOME/EXPENSE			
INCOME			
Conf Genetic Alg and NN	0.00	-4,000.00	4,000.00
FUZZ-IEEE-92 Conference	40,000.00	60,000.00	-20,000.00
FUZZ-IEEE-93 income	-10,000.00	60,520.00	-70,520.00
IC on NN&SigProc Singapor	0.00	-5,000.00	5,000.00
IJCNN Baltimore	- 50,000.00	50,000.00	0.00 ^{-100,000}
IJCNN-91-Seattle	65,148.32	55,000.00	10,148.32
IJCNN-92 Balt CD-ROM	0.00	-15,000.00	15,000.00
Interest on money	0.00	1,000.00	-1,000.00
Membership fees Trans NN	? 0.00?	92,800.00	-92,800.00
Rostov-On-Don Russia Conf	0.00	-10,000.00	10,000.00
VR Conf in Seattle	0.00	16,300.00	-16,300.00
TOTAL INCOME	145,148.32	301,620.00	-156,471.68
EXPENSES			
ADCOM Expenses	14,703.01	25,000.00	-10,296.99
IEEE Service Fees	50.00	300.00	-250.00
Newsletter	-758.21	21,300.00	-22,058.21
Presidents Expenses	8,617.49	10,000.00	-1,382.51
Regional Interest Groups	0.00	1,000.00	-1,000.00
Standards Committee	2,976.93	6,000.00	-3,023.07
Trans on Neural Networks	8,004.92	185,200.00	-177,195.08
Treasurer's Expenses	0.00	1,500.00	-1,500.00
TOTAL EXPENSES	33,594.14	250,300.00	-216,705.86
TOTAL INCOME/EXPENSE	111,554.18	51,320.00	60,234.18
	(<u>111,554.18</u>)	(<u>51,320.00</u>)	(<u>60,234.18</u>)
	?+++		?

NNC Treasury Register Listing

..NMC Treasury
 / 6/92

Page
 3

Date	Num	Payee	Memo	Category	Amount	C	Balance
12/31/91		Opening Balance					
1/13/92		Robert Marks	Secretarial Sup	ADDCOM Secretari/	-5,905.00		5,700.00
1/13/92		Robert Marks	Travel IEEE Exc	ADDCOM/travel	-757.23		4,942.77
1/21/92		Robert Marks	Expenses for Tr	Trans on NN/tele	-216.33		4,726.44
1/21/92		Roy Nutter	Travel ExComm	ADDCOM/travel	-652.20		4,074.24
1/21/92		Bernard Widrow	Pioneer Award T	awards/travel	-551.85		3,522.39
1/21/92		Stephen Grossberg	Pioneer Award a	awards/travel	-1,519.63		2,002.76
1/28/92		Pat Simpson	Excom Meeting R	ADDCOM/travel	-549.93		1,452.83
2/ 4/92		Russ Eberhart	TAB Financial a	President/travel	-376.66		1,076.17
2/ 4/92		IJCNN-91-Seattle	Preliminary Dis	IJCNN-Seattle/su	55,000.00		11,076.17
2/ 5/92		Elsevier Science Publi	Half Page Adver	Newsletter/adver	600.00		11,676.17
2/ 5/92		Rose-Hulman Inst of Te	Half Pg Ad Ck12	Newsletter/adver	600.00		12,276.17
2/ 5/92		Fraklin Spier Inc	Half Pg Ad 12/5	Newsletter/adver	510.00		12,786.17
2/ 6/92		Russ Eberhart	Phone Calls for	President/teleph	-137.21		12,648.96
2/11/92		Russ Eberhart	Travel + IJCNN-	President/travel	-3,932.95		8,716.01
2/18/92		Pat Simpson	telephone and m	Vice President/t	-172.18		8,543.83
2/18/92		Charlie Robinson	Travel to March	ADDCOM/travel	-700.00		7,843.83
2/18/92		Russ Eberhart	Travel Advance	President/travel	-1,200.00		6,643.83
2/27/92		Robert Marks	Telephone Excom	President/teleph	-316.32		6,327.51
2/27/92		Pat Simpson	Telephone e-mai	Vice President/t	-79.10		6,248.41
3/ 3/92		Francesca Eberhart	Adcom support	ADDCOM Secretari/	-204.29		6,044.12
3/ 3/92		Robert Marks	Travel Jan exco	ADDCOM/travel	-838.47		5,205.65
3/ 4/92		Francesca Eberhart	Prep ADCOM book	ADDCOM Secretari/	-623.33		4,582.32
3/ 5/92		Robert Marks	Travel Advance	President/travel	-500.00		4,082.32
3/12/92		Fancesca Eberhart	Pres's Sec serv	President	-131.36		3,950.96
3/12/92		Dandina H Rao	Student Travel	ADDCOM	-1,314.00		2,636.96
3/12/92		Choon-Seng Yee	Student Travel	ADDCOM	-160.00		2,476.96
3/12/92		Andrew J Worth	Student Travel	ADDCOM	-1,026.00		1,450.96
3/13/92		Pat Simpson	e-mail charges	Vice President	-21.99		1,428.97
3/13/92		Roy Nutter	Travel to AdCom	ADDCOM	-642.69		786.28
3/18/92		Charles J Robinson	Travel to AdCom	ADDCOM	-529.57		256.71
3/18/92		Robert W Newcome	Travel to AdCom	ADDCOM	-626.72		-369.81
3/18/92		Stamatios V Kartolopou	Travel to AdCom	ADDCOM	-813.91		-1,183.72
3/24/92		Connie Lynn Marks	Sec 9/1-12/31/1	Trans on NN	-3,333.33		-4,517.05
3/24/92		Robert J Marks	Copy Machine	Trans on NN	-1,832.90		-6,350.00
3/24/92		Connie Lynn Marks	Sec 1/1-3/31/19	Trans on NN	-2,500.00		-8,850.00
3/31/92		Robert J Marks	Travel to AdCom	ADDCOM	-632.57		-9,482.57
4/ 3/92		Wesley E Snyder	Travel to AdCom	ADDCOM	-1,653.91		-11,136.48
4/ 3/92		NNC	Adv in Conn IJC	Newsletter	1,600.00		-9,536.48
4/ 7/92		Walter Karplus	Travel to Stand	Standards	-260.43		-9,796.91
4/ 7/92		Walter Karplus	Travel to IEEE	Standards	-1,346.17		-11,143.08
4/ 7/92		Walter Karplus	Travel to AdCom	ADDCOM	-1,346.17		-12,489.25
4/20/92		James C Bezdek	Travel to AdCom	ADDCOM	-428.00		-12,917.25
5/ 4/92		Transfer of Funds	Stationary and	fees	-50.00		-12,967.25
5/11/92		Robert J. Marks	Travel to TAB A	ADDCOM	-849.30		-13,816.55
5/11/92		Rosalyn Snyder	Edit/Typesettin	Newsletter	-2,876.79		-16,693.34
5/19/92		NNC	Adv West Pub Ma	Newsletter	325.00		-16,368.34
6/ 2/92		Pat Simpson	e-mail and phon	Vice President	-70.17		-16,438.51
6/ 2/92		Bob Marks	Advance for AdC	ADDCOM	-500.00		-16,938.51
6/ 2/92		H Troy Nagle	Travel to AdCom	ADDCOM	-682.34		-17,620.85
6/ 2/92		Robert J Marks	Misc:Pad/stamp,	Trans on NN	-122.36		-17,743.21

NNC Treasury Register Listing

NNC Treasury
6/ 6/92

<u>Date</u>	<u>Num</u>	<u>Payee</u>	<u>Memo</u>	<u>Category</u>	<u>Amount</u>	<u>D</u>	<u>Balance</u>
6/ 4/92		Russ Eberhart	RIG talk, ADCOM	President	-822.99		-14,822.99
6/ 4/92		Russ Eberhart	TAB Meeting in	President	-1,200.00		-16,022.99
6/ 4/92		NNC	Final distribut	IJCNN-Seattle	10,148.32		-5,874.67
6/ 5/92		Walter Karplus	Travel/ Auburn	Standards	-1,370.33		-7,245.00

NNC Expenses by Category
 12/ 1/91 Through 12/31/92

NC-92-All Accounts
 6/ 6/92

5

Date	Acct	Num	Description	Memo	Category	Clr	Amount
INCOME/EXPENSE							
INCOME							
FUZZ-IEEE-92 Conference							
12/31/91	NNC Cas		FUZZ-IEEE-92 -S		FUZZ-IEEE-92/		-30,000.00
6/ 2/92	fuzzy-9		NNC	Repay adva	FUZZ-IEEE-92		40,000.00
Total FUZZ-IEEE-92 Conference							10,000.00
FUZZ-IEEE-93 income							
2/11/92	fuzzy-9		Advance to Conf For printi		FUZZ-IEEE-93		-10,000.00
Total FUZZ-IEEE-93 income							-10,000.00
IJCNN Baltimore							
12/31/92	IJCNN-9		IJCNN-92-Baltim advance		IJCNN-92-Balt		- 50,000.00
Total IJCNN Baltimore							- 50,000.00
IJCNN Singapore 1991							
12/31/92	singapo		IJCNN-91-Singap Advance AD		IJCNN-Sing-91		- 20,000.00
Total IJCNN Singapore 1991							- 20,000.00
IJCNN-91-Seattle							
2/ 4/92	NNC Tre		IJCNN-91-Seattl	Preliminar	IJCNN-Seattle		55,000.00
6/ 4/92	NNC Tre		NNC	Final dist	IJCNN-Seattle		10,148.32
Total IJCNN-91-Seattle							65,148.32
TOTAL INCOME							135,148.32
							(-70,000)
							<u>365,148.32</u>
EXPENSES							
ADCOM Expenses							
1/13/92	NNC Tre		Robert Marks	Travel IEE	ADCOM/travel		-757.23
1/21/92	NNC Tre		Roy Nutter	Travel ExC	ADCOM/travel		-652.20
1/28/92	NNC Tre		Pat Simpson	Excom Meet	ADCOM/travel		-549.93
2/18/92	NNC Tre		Charlie Robinso	Travel to	ADCOM/travel		-700.00
3/ 3/92	NNC Tre		Robert Marks	Travel Jan	ADCOM/travel		-638.47
3/12/92	NNC Tre		Dandina H Rao	Student Tr	ADCOM		-1,314.00
3/12/92	NNC Tre		Choon-Seng Yee	Student Tr	ADCOM		-160.00
3/12/92	NNC Tre		Andrew J Worth	Student Tr	ADCOM		-1,026.00
3/13/92	NNC Tre		Roy Nutter	Travel to	ADCOM		-642.69
3/18/92	NNC Tre		Charles J Robin	Travel to	ADCOM		-529.57
3/18/92	NNC Tre		Robert W Newcom	Travel to	ADCOM		-626.72

MNC Expenses by Category
 12/ 1/91 Through 12/31/92

NNC-92-All Accounts
 6/ 6/92

Date	Acct	Num	Description	Memo	Category	Clr	Amount
3/18/92	NNC Tre		Stamatios V Kar	Travel to	ADCOM		-813.91
3/31/92	NNC Tre		Robert J Marks	Travel to	ADCOM		-632.57
4/ 3/92	NNC Tre		Wesley E Snyder	Travel to	ADCOM		-1,653.91
4/ 7/92	NNC Tre		Walter Karplus	Travel to	ADCOM		-1,346.17
4/20/92	NNC Tre		James C Bezdek	Travel to	ADCOM		-428.00
5/11/92	NNC Tre		Robert J. Marks	Travel to	ADCOM		-849.30
6/ 2/92	NNC Tre		Bob Marks	Advance fo	ADCOM		-500.00
6/ 2/92	NNC Tre		H Troy Nagle	Travel to	ADCOM		-682.34
Total ADCOM Expenses							-14,703.01
Awards Travel/expense							
1/21/92	NNC Tre		Bernard Widrow	Pioneer Aw awards/travel			-551.85
1/21/92	NNC Tre		Stephen Grossbe	Pioneer Aw awards/travel			-1,519.63
Total Awards Travel/expense							-2,071.48
IEEE Service Fees							
5/ 4/92	NNC Tre		Transfer of Fun Stationary fees				-50.00
Total IEEE Service Fees							-50.00
Newsletter							
2/ 5/92	NNC Tre		Elsevier Scienc	Half Page Newsletter/ad			600.00
2/ 5/92	NNC Tre		Rose-Hulman Ins	Half Pg Ad Newsletter/ad			600.00
2/ 5/92	NNC Tre		Fraklin Spier I	Half Pg Ad Newsletter/ad			510.00
4/ 3/92	NNC Tre		NNC	Adv in Con Newsletter			1,600.00
5/11/92	NNC Tre		Rosalyn Snyder	Edit/Types Newsletter			-2,876.79
5/19/92	NNC Tre		NNC	Adv West P Newsletter			325.00
Total Newsletter							758.21
Presidents Expenses							
2/ 4/92	NNC Tre		Russ Eberhart	TAB Financ President/tra			-376.66
2/ 6/92	NNC Tre		Russ Eberhart	Phone Call President/tel			-137.21
2/11/92	NNC Tre		Russ Eberhart	Travel + I President/tra			-3,932.95
2/18/92	NNC Tre		Russ Eberhart	Travel Adv President/tra			-1,200.00
2/27/92	NNC Tre		Robert Marks	Telephone President/tel			-316.32
3/ 5/92	NNC Tre		Robert Marks	Travel Adv President/tra			-500.00
3/12/92	NNC Tre		Fancesca Eberha	Pres's Sec President			-131.36
6/ 4/92	NNC Tre		Russ Eberhart	RIG talk, President			-822.99
6/ 4/92	NNC Tre		Russ Eberhart	TAB Meetin President			-1,200.00
Total Presidents Expenses							-8,617.49
Secretarial Expenses							
1/13/92	NNC Tre		Robert Marks	Secretaria	ADCOM Secreta		-5,905.00

NNC Expenses by Category
 12/ 1/91 Through 12/31/92

NC-92-All Accounts
 6/ 6/92

Date	Acct	Num	Description	Memo	Category	Clr	Amount
3/ 3/92	NNC	Tre	Francesca Eberh	Adcom supp	ADCOM	Secreta	-204.29
3/ 4/92	NNC	Tre	Francesca Eberh	Prep	ADCOM	Secreta	-623.33
Total Secretarial Expenses							-6,732.62
Standards Committee							
4/ 7/92	NNC	Tre	Walter Karplus	Travel to	Standards		-260.43
4/ 7/92	NNC	Tre	Walter Karplus	Travel to	Standards		-1,346.17
6/ 5/92	NNC	Tre	Walter Karplus	Travel/ Au	Standards		-1,370.33
Total Standards Committee							-2,976.93
Trans on Neural Networks							
1/21/92	NNC	Tre	Robert Marks	Expenses f	Trans on NN/t		-216.33
3/24/92	NNC	Tre	Connie Lynn Mar	Sec 9/1-12	Trans on NN		-3,333.33
3/24/92	NNC	Tre	Robert J Marks	Copy Machi	Trans on NN		-1,832.90
3/24/92	NNC	Tre	Connie Lynn Mar	Sec 1/1-3/	Trans on NN		-2,500.00
6/ 2/92	NNC	Tre	Robert J Marks	Misc:Pad/s	Trans on NN		-122.36
Total Trans on Neural Networks							-8,004.92
Vice Presidents Expenses							
2/18/92	NNC	Tre	Pat Simpson	telephone	Vice Presiden		-172.18
2/27/92	NNC	Tre	Pat Simpson	Telephone	Vice Presiden		-79.10
3/13/92	NNC	Tre	Pat Simpson	e-mail cha	Vice Presiden		-21.99
6/ 2/92	NNC	Tre	Pat Simpson	e-mail and	Vice Presiden		-70.17
Total Vice Presidents Expenses							-343.44
Expenses - Other							
12/31/91	NNC	Tre	Opening Balance				0.00
Total Expenses - Other							0.00
TOTAL EXPENSES							-42,741.68
TOTAL INCOME/EXPENSE							92,486.64 ~ 22,746.64
BALANCE FORWARD							
fuzzy-92							
6/ 1/92	fuzzy-9		Opening Balance			[fuzzy-92]	-30,000.00
Total fuzzy-92							-30,000.00
fuzzy-93							

NNC Expenses by Category
 12/ 1/91 Through 12/31/92

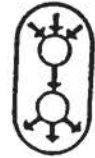
NNC-92-All Accounts
 6/ 6/92

Date	Acct	Num	Description	Memo	Category	Clr	Amount
6/ 6/92	fuzzy-9		Opening Balance		[fuzzy-93]		-40,000.00
			Total fuzzy-93				-40,000.00
			IJCNN-92-Baltim				
12/31/91	IJCNN-9		Opening Balance		[IJCNN-92-Bal		-50,000.00
			Total IJCNN-92-Baltim				-50,000.00
			NNC Cash Assets				
12/31/91	NNC Cas		Opening Balance		[NNC Cash Ass		253,450.00
			Total NNC Cash Assets				253,450.00
			Rostov-O-Don				
6/ 6/92	Rostov-		Opening Balance		[Rostov-O-Don		-10,000.00
			Total Rostov-O-Don				-10,000.00
			singapore				
6/ 6/92	singapo		Opening Balance		[singapore]		-20,000.00
			Total singapore				-20,000.00
			TOTAL BALANCE FORWARD				103,450.00
			OVERALL TOTAL				195,856.64



IEEE

TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

June 5, 1992

Some statistics on the *IEEE Transactions on Neural Networks*.

Printing run:	9650 Copies per issue
Current Pages	960 Pgs per year/921 useful
Backlog	May 1993
Submission frequency	~1.5 papers/ business day
Current Paper Count	1285
Correspondance (30 days April-May)	238 (12 per business day)

Robert J. Marks, Editor-in-Chief
IEEE Transactions on Neural Networks

1991-2 Newsletter Expenses

	May 1991 8 pp	Oct 1991 8pp	Feb 1992 16 pp	May 1992 16pp	Total 48pp
P&M	\$7,600	\$5,550	\$5280	(est)\$6,600	23,090
Production	*900	*900	**\$2,480	**\$2,480	\$6,760
Travel	\$1,007			(est)\$400	\$1,407
SubTotal	\$8,607	\$6,450	\$7,760	\$9,480	\$31,257
Ad Revenue Rec'd					(\$4,400)
Subtotal					\$26,857
Ad Revenue Outstanding					(\$4,325)
Total Expenses					\$22,532

*Intro fee

**\$155/page

Neural Networks Advertising Revenue

PO/Advertiser	ISSUE	Size	Amount	Status
Elsevier	Feb92	1/2page	\$600	pd
IJCNN Baltimore	Feb92&Nov91	full+half	\$1,600	pd
Intelligence	Feb92	sixth	\$200	outstanding
IJCNN Singapore	May 91	half	\$600	outstanding
CBMS	Oct 91	half	\$600	pd
FBI	Oct 91	class	\$325	pd
Intelligence	May 91	class	\$100	pd
"	Oct91	sixth	\$200	pd
Hyperlogic	May 91	quarter	\$325	pd
Harness Dickey&Pearce	Oct91	quarter	\$325	pd
IJCNN Seattle	May 91	two thirds	\$725	outstanding
West Pub	May92	quarter	\$325	pd
Intelligence	May92	sixth	\$200	outstanding
IJCNN Beijing	Feb92	full	\$1,000	outstanding
MIT press	May92	half	\$600	outstanding
IJCNN Baltimore	May92	full	1,000	outstanding
Total Ad Revenue			\$8,725	

29

1993 Newsletter Budget

Printing	\$10,980
Mailing	2,520
U.S. Postage	2,940
Non US Postage	8,400
Publication Administration	400
Labels	1,680
Editorial Fees	10,416
Editorial Expenses	504
Composition Expenses	1,176
Total Production Expense	38,116
Travel (AdCom & IEEE Editors Meeting)	2,000
Total Expenses	\$40,116
Less Projected Ad Revenue	(\$6,000)
Total Newsletter Budget	\$34,116

Ad Policies

We do not normally bill for NNC sponsored conference ads or publications.

We billed for IJCNN ads because the INNS billed the conference for ads in their journal.

We do not charge for calendar announcements or "space available" ads, i.e. if we have extra space, we might run a full page announcement for a high interest conference not sponsored by NNC, but guaranteed space must be paid for.

**Newsletter Report
June 6, 1992**

(for comparison) 1991 Robotics & Automation Society Newsletter Costs and Revenue

	<i>Jan</i>	<i>Mar</i>	<i>June</i>	<i>Sept</i>	<i>Year</i>
P&M	\$5,900	\$7,000	\$6,900	\$7,700	\$27,500
Production	\$3,720	\$3,720	\$4,960	\$4,960	\$17,360
Travel			\$2,999		\$2,999
Comp. Exp.				\$300	\$300
Total exp	\$9,620	\$10,720	\$14,859	\$12,960	\$48,159

Advertising Revenue \$5,590
 This figure reflects ads which appeared in 1991, and does not include payment for 1990 or 1992 ads which may have been rec'd in '91

Total Newsletter Costs \$42,569

Number of pages 24 24 32 32 112
 Cost per page \$380

Press run 6439 6651 5683 6239 25012
 Cost per issue \$1.70

Cost per subscription per year \$6.81

Neural Networks has fewer pages but with ~1000 more subscribers, higher mailing costs. NN has not been published long enough to obtain a valid analysis of this type.

32

IEEE Council on Neural Networks Newsletter Advertising Rates

Issues/year	1x	2x	3	x4
Full page: 9.5in x 7.25in; 24cm x 18.5cm	\$1000	\$1900	\$2800	\$3750
Half page 4.7in x 7.25in ; 11.5cm x 18.5cm or 9.5in x 3.7in; 24cm x 9cm	600	1150	1700	2200
Third page: 9.5in x 2.5in; 24cm x 6cm or 4.75 .in x 4.75 in.; 12.cm x 12cm	400	725	1050	1450
Quarter page: 4.7in x 3.7in; 11.5cm x 9cm	325	600	900	1000
Sixth page: 4.7in x 2.5in; 11.5cm x 6cm	250	475	625	800
Classified (per column inch):	\$50			

There is a \$25 surcharge for advertisements with halftones. Rates for color ads (one additional color only) will be provided on request. The Newsletter is printed in a 8 1/2 X 11 two- and three-column format. Classified ads will be typeset. Advertisers must provide camera ready copy or film (133 screen, rightside reading emulsion side down) for display ads. Checks should be made payable to the IEEE.

Ms. Rosalyn Snyder, Managing Editor
IEEE Neural Networks Council Newsletter
5630 Lakeside Drive
Pfafftown NC 27040
email: roz@relito.medeng.wfu.edu

Shun-ichi Amari is awarded the 1992 IEEE Neural Networks Council Pioneer Award for his work on learning in multi-layer neural networks, and for his theory of statistical neurodynamics. Dr. Amari is a Professor with the Faculty of Engineering at the University of Tokyo. He received the B.Eng. and Dr.Eng. degrees from the University of Tokyo in 1958 and 1963, respectively. He was a faculty member at Kyushu University from 1963 to 1967; since then he has been on the faculty at the University of Tokyo. He is a Member of IEEE. Prof. Amari has many research accomplishments in numerous areas including information theory, mathematical statistics, and topological network theory. His pioneering contributions to the field of neural networks include the study of nonlinear cooperative and competitive feedback network behavior, characterization of random networks, analysis of adaptive pattern classification networks, and studies of associative memory networks.

Walter J. Freeman is awarded the 1992 IEEE Neural Networks Council Pioneer Award for experimental work and theoretical modeling studies involving cortical networks in the olfactory systems of rabbits and cats. Dr. Freeman is currently Professor of Neurophysiology at the University of California at Berkeley where he has been on the faculty since 1959. He studied Physics at MIT, Mathematics at Hamilton College, and English and Philosophy at the University of Chicago; he received the M.D. degree from Yale University in 1954. His honors include a Guggenheim Fellowship in 1965 and a MERIT Award from the National Institute of Mental Health in 1991; he is a Member of IEEE. Prof. Freeman is being honored for his pioneering work demonstrating that cortical networks can be modeled as populations of mutually coupled oscillators, that plasticity in the coupling synapses endows cortical networks with associative learning properties, and that dynamical instabilities play a key role in behavioral phenomena. His work has established the neurobiological foundation for much of the modern work on design and analysis of neural networks.

David J. Willshaw is awarded the 1992 IEEE Neural Networks Council Pioneer Award for his work on associative memory networks and for his studies of topographic map development. Dr. Willshaw holds an appointment on the Scientific Staff, Medical Research Council, at the Centre for Cognitive Science, University of Edinburgh. He received the B.A. from the University of Cambridge in 1967, the Ph.D. in 1971 from the University of Edinburgh, and he also received the M.Sc. in Physiology from University College London in 1978. His pioneering work includes studies of the capacity of associative memory networks and the efficiency of sparse codes; he also studied the application of Hebbian plasticity to the problem of topographic map development in the optic tectum, inspiring much further work on the processes of nervous system development and organization. Dr. Willshaw will be presented with his Pioneer Award at a later date.

F. Design and Printing (continued)

6. Arrange and supervise printing of Proceedings. Camera-ready papers will be provided by presenters. Type-setting of cover, table of contents and pagination will be arranged by Meeting Management according to IEEE requirements.

G. Mailings

Handle all arrangements for mailings. Negotiate with mailing house for best price and service. Supervise completion of mailings.

H. Mailing Lists

Select best sources of mailing lists with guidance of Chairs.

I. Journals

Place announcements and advertisements in relevant journals. Send announcements to secretaries of societies. List of Journals to be provided by Chair.

J. Technical and Scientific Exhibits

1. Assist Exhibit Chair with solicitation of exhibitors.
2. Handle all arrangements for exhibitors, including designation of space, formation of booths, decorations, drayage, et al.
3. Communicate with exhibitors regarding booth location, exhibit fees, exhibitor packets, name badges and designation of representatives for attendance to conference.

K. Proceedings

1. Receive abstracts/papers and forward to Program Chair for review. Process and log papers.
2. Send abstracts/papers to reviewers as indicated by Program Chair. Coordinate the review process.
3. Receive accepted or rejected abstracts from reviewers.

K. Proceedings (continued)

4. Send letters of acceptance or rejection to authors.
5. Prepare Proceedings for printing. Provide table of contents, author index, pagination and prepare Proceedings for printing.
6. Select printer and publisher on basis of competitive bids. Supervise publication and shipping to Conference site and appropriate number to IEEE headquarters.

L. Poster Sessions

1. Notify authors of day, time and location of their presentation, and send them instructions for the format of the posters.
2. Map the poster session area and obtain appropriate numbers of poster boards.
3. Provide poster numbers and necessary supplies.
4. Monitor poster sessions throughout the meeting.

M. Advance Registration

1. Develop systems and procedures for receipt and processing of advance registration forms.
2. Maintain accurate financial records of all advance registration income.
3. Prepare receipts, badges and packets for all registrants. Issue ribbons as appropriate.
4. Respond to requests for forms and information.

N. Meeting Site Arrangements

1. Reconfirm adequate meeting space with hotel.
2. Coordinate program elements and instruct hotel staff regarding exact floor layout, anticipated attendance, audio-visual equipment, signs and all other meeting requirements.

N. Meeting Site Arrangements (continued)

3. Arrange for sleeping rooms for VIP and speakers.
4. Arrange catering functions - determine per plate costs, plan menu and coordinate all catering activities.
5. Supervise performance of hotel personnel during entire conference.

O. Registration

1. Type badge for each current registrant and insert in badge cover.
2. Prepare information packet for each attendee which will contain badge, final program, exhibit guide, city information and any other material deemed appropriate.
3. Hire registrars, cashiers and typists for registration desks to distribute Conference packets to advance registrants, all exhibitors, and to process on-site registrants.
4. Provide city information and general hospitality service to registrants.
5. Provide message center.

P. On-Site Conference Management

1. Staff registration desks during the entire period of the conference.
2. Supervise the performance of the hotel during the entire duration of the meeting and resolve any problems arising during the conferences.
3. Supervise set-up and arrangements of booth set-up for the exhibitors.
4. Serve as a coordination point for Conference personnel. Organize, maintain and administer on-site Conference office.

P. On-Site Conference Management (continued)

5. Inspect meeting room set-up daily to verify that it is properly prepared in accordance with specifications.
6. Hire security guards and supervise their activities on site.
7. Work with local tour operators on social programs, if desired.
8. Display up-to-date lists of registrants and their affiliations.

Q. Social Events

Arrange for adequate space, transportation, guest lists, invitations, reservations, menus, guarantees, flowers, decorations, ticketing, overall coordination for events as scheduled.

R. Fiscal Responsibility

1. Assist Treasurer with preparation of conference budget.
2. Receive and deposit advance, current registration fees, tutorial fees and exhibit fees in a special bank account.
3. Deposit contributions, exhibit fees and Proceedings fees.
4. Approve bills for items ordered by Meeting Management.
5. Provide final report showing:
 - a. The number of participants registered and amount of registration fees received and outstanding.
 - b. Number of participants registered for the tutorials, amount of tutorials fees received and amount outstanding.
 - c. Number of exhibitors and fees received for exhibit booths.
 - d. Detailed account of all other income.

R. Fiscal Responsibility (continued)

- e. An accounting of all bills paid by Meeting Management listed by category as indicated in the budget.

S. Post Conference Activities

1. Maintain office address on a year-round basis for late mail, inquiries, etc.
2. Save records for use for following year.

Compensation

The fee for the services listed in this proposal shall be as follows:

ICNN:

\$43,000 for the first 1500 registrants and \$24 for each registrant above 1500.

Fuzz-IEEE:

\$22,000 for the first 700 registrants and \$24 for each registrant above 700.

Genetic Algorithms:

\$12,000 for the first 300 registrants and \$24 for each registrant above 300.

These amounts will be reduced by the hotel room commissions received by Meeting Management. An advance of \$10,000 shall be paid by July 1992, and an additional \$15,000 shall be paid by July 1993 with the remainder to be paid at the conclusion of the Conference, July 1994.

Agency

It is understood that the relationship created is one of agent and principal and it is not intended, nor shall it be construed, to be joint venture with respect to the Conference. As your agent, I shall be empowered to make such contractual arrangements as are required to provide the services set forth above. You will indemnify your agent and hold it harmless against any and all damages, liabilities or causes of action, including reasonable attorneys' fees, incurred or arising through or proximately resulting from the faithful performance of its duties herein.

Liabilities

All expenses and liabilities incurred in the performance of the services set forth above including, but not limited to, printing, mailings, telephone services, employee wages shall be paid by the Conference. While it is anticipated that the Conference will break even, nothing herein contained shall be construed as a guarantee. Should the expenses exceed the income, IEEE and the Council on Neural Networks will be expected to pay the excess.

Form of Agreement

This agreement constitutes the entire agreement between the parties pertaining to the subject matter contained in it and supersedes all prior or contemporaneous agreements, representations, modifications and understandings of the parties. Any supplements, modifications or amendments of the agreement will be binding only if executed in writing by all of the parties hereto.

Terms approved and agreed to:

Robert J. Marks, II
President, IEEE Neural Networks Council

Date

Nomi Feldman

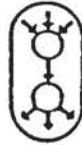
Nomi Feldman
President, Meeting Management

9/5/91

Date



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

February 1, 1992

NNC Publications Committee
Stamatios Kartalopoulos, Chair
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981

Dear Dr. Kartalopoulos,

Here is an item I request be considered at the upcoming Publications Committee meeting in San Diego.

Subject: Advertising Policy and Rates for Council Publications

Background: The Council currently has no policy concerning the placement of ads for meetings in our publications and, for Transactions, has no Advertising rates. Applicable IEEE policy is attached.

Motion:

- a. The Council newsletter will list all meetings brought to the attention of the newsletter Editor-in-Chief that deal with the *Field of Interest* statement of the Council.
- b. Council publications will carry free meetings advertisements only for conferences with which the Council has a cooperating, participating, co-sponsoring or sponsoring status. The publication Editor, with the consent of the Council President, however, may choose to charge for such advertisements.
- c. The Advertising rates of the Council's Transactions will be equal to those charged by the Council newsletter. The Council Treasurer will pursue approval of these rates by IEEE.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, Past President
IEEE Neural Networks Council

cc: Russ Eberhart, NNC President

6.7 - ADVERTISING IN IEEE PUBLICATIONS

Technical advertising is one of the major means of disseminating scientific information concerning electrical and electronics engineering and related fields. It does this by presenting for the engineering profession descriptions concerning the availability and capabilities of new or improved equipment, components, instruments and services. The presence of such advertising in a technical publication thus adds significantly to its usefulness and general attractiveness. The acceptance of advertising by journals of the IEEE and its predecessor societies and the use of the resulting income to support publication services and thereby

IEEE POLICIES AND PROCEDURES

further the dissemination of scientific information has a long tradition dating back more than half a century.

It is, therefore, entirely fitting that the IEEE should permit the inclusion of technical advertising in those of its publications where it is appropriate, as specified further below, subject to the following requirements and procedures.

The intent of these policies is to insure that the benefits afforded by such advertising are achieved within the bounds of good taste and in a manner consonant with IEEE's scientific and educational objectives. It is a further intent to establish a mechanism for maintaining and monitoring the balance among the sometimes conflicting elements of a vigorous advertising program. As a matter of policy, advertisers should not be approached to buy advertising in an Institute-wide publication from a feeling of responsibility to support the IEEE.

For the purposes of this policy statement, "advertising" is defined to mean display advertising. This statement is not intended to apply to institutional listings, which are regarded by the IEEE as acknowledgments of contributions supporting a particular publication activity rather than description of products or services.

A. All IEEE Publications (See also Policy Statement 13.3)

General Requirements:

- (1) The advertising should serve the reader of the publication. It should contain substantive technical content or be of informational usefulness to him.
- (2) The advertising should be appropriate to the publication and to the IEEE. The appearance and usefulness of the publication should not be impaired.
- (3) Advertising considerations should not be used as a criterion by the Editor or his staff in judging the merits of technical and editorial material for publication.
- (4) In the case of archival publications, the pagination should be such as to permit separation of advertising copy from bound volumes.
- (5) Authorization for an IEEE publication to carry advertising will be granted provided that, in the judgment of the Executive Committee of the IEEE, there would not result a condition that would cause an overall reduction of publication services to the IEEE membership.
- (6) When the sale of advertising requires the services of paid professional advertising salesmen, it will be handled

through the Institute staff for all publications having more than Regional distribution. Advertising may be sold through volunteer members if the advertising sales of other IEEE publications are not affected. Volunteer sales efforts should be fully coordinated with the Institute staff.

B. IEEE SPECTRUM and PROCEEDINGS OF THE IEEE

Additional Requirements: None

Procedures:

- (1) All advertising arrangements will be handled by the Institute staff.
- (2) The advertising rates will be set by the Institute staff, subject to Executive Committee approval.
- (3) The net income from advertising will revert to the general treasury of the Institute.
- (4) The Publications Board is assigned the responsibility of monitoring the suitability of the advertising and its adherence to the above requirements.

C. TRANSACTIONS, JOURNALS and NEWSLETTERS of IEEE Societies

Additional Requirements:

- (1) The potential net income from the advertising should be a significant fraction of the production cost of the publication which carries it.
- (2) For Society TRANSACTIONS and JOURNALS, advertising copy accepted should be in units such that editorial filler material is not needed.
- (3) The acceptance of advertising and Institutional listings in the same publication is permitted.

Procedures:

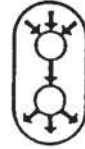
- (4) If advertising is to be sold through the Institute staff, the following procedures will apply:
 - (a) Society participation in the sales effort will be fully coordinated with the Institute staff.
 - (b) The advertising rates will be set by the Institute staff, in consultation with the Society Presidents concerned, subject to Executive Committee approval.

IEEE POLICIES AND PROCEDURES

- (c) The net income from advertising in a Society publication will be allocated at the discretion of the Executive Committee upon the recommendation of the Chairmen of the Technical Activities Board and Publications Board. A substantial fraction will be allocated to the Society involved for use in defraying publication costs.
- (5) If advertising is to be sold through volunteer members of a Society, the following procedures will apply:
- (a) The Society will appoint a volunteer member to handle advertising sales, arrange for collections, coordinate advertising plans with the Institute staff, and see that publication requirements and schedules are met.
 - (b) The advertising rates and any subsequent changes thereto will be set by the Society Administrative Committee in consultation with the Institute staff, subject to Executive Committee approval.
 - (c) No advertising will be placed in a Society technical publication or newsletter unless authorized by its Administrative Committee. If a Society wishes to have advertising in its publication, it should submit for approval a proposal to the Executive Committee via the Publications Board and the Technical Activities Board. The proposal should include information on proposed advertising rates, starting date, budget, how the sales effort will be organized and operated, and the principal classes of advertisers that are anticipated.
 - (d) All advertising income will be credited to and expenses borne by the Society.
 - (e) A Society may discontinue advertising upon notifying the Publications Board and the Technical Activities Board.
 - (f) The Society shall report annually on procedures and results to the Publications Board and the Technical Activities Board.
 - (g) The Publications Board is assigned the responsibility of monitoring the suitability of the advertising and its adherence to the above requirements.
- D. Section Publications
- Additional Requirements:
- (1) Advertising is permitted in Section publications on the basis that it provides a worthwhile service to readers in a particular geographical area and to advertisers, and that the publication's distribution and method of selling advertising is sufficiently localized so as not normally to interfere with the advertising programs of other Institute publications having more than Section distribution. However, Section publications containing advertising may be distributed to the members of more than one Section only with the approval of the other Sections involved and the IEEE Executive Committee.
 - (2) An advertiser is free to buy advertising separately in two or more Section publications. However, two or more Section publications may sell advertising to the same advertiser at combination rates only with the prior approval of the IEEE Executive Committee.
- Procedures:
- (3) All advertising arrangements will be handled by the Section or its designated agent. Sections may seek advice and help from the Institute staff on advertising matters.
 - (4) The advertising rates will be set by the Section.
 - (5) The net income from advertising will revert to the Section or its publication.
 - (6) The Section Executive Committee is assigned the primary responsibility of monitoring the suitability of the advertising and its adherence to the above requirements.



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief
Transactions on Neural Networks

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

February 1, 1992

NNC Publications Committee
Stamatis Kartalopoulos, Chair
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981

Dear Dr. Kartalopoulos,

Here is an item I request be considered at the upcoming Publications Committee meeting in San Diego, and, subsequently, by AdCom.

Subject: *Resolution of Conflict of Interest*

Background: The Council provides a discretionary fund to the Editor of the *IEEE Transactions on Neural Networks* for secretarial and administrative support. Connie Lynn Marks, my wife, has been providing this service for the Transactions since September 1991. In order to avoid, in fact or appearance, a conflict of interest, financial reimbursement of relatives in volunteer activities must be approved by the Society or Council AdCom. I ask that the following motion be considered retroactive to September 1, 1991.

Motion: The *IEEE Neural Networks Council* does not construe as a conflict of interest the employment of Connie Lynn Marks in performance of administrative and secretarial duties related to the *IEEE Transactions on Neural Networks*.

Sincerely,

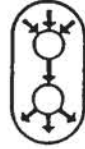
A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks

cc: Russ Eberhart, NNC President



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief
Transactions on Neural Networks

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

February 1, 1992

NNC Publications Committee
Stamatis Kartalopoulos, Chair
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981

Dear Dr. Kartalopoulos,

Here is an item I request be considered at the upcoming Publications Committee meeting in San Diego and, subsequently, by AdCom.

Subject: *Photocopy Machine*

Background: All of the equipment I require for the running of the *IEEE Transactions on Neural Networks* has been obtained with through funds other than those of the Council. University of Washington policy prohibits, however, purchasing of photo copy machines with state controlled funds by professors. Since the Transactions is run from an office in my home, I have found it necessary to purchase a photo machine. I request reimbursement. The depreciation schedule in the motion was approved by ExCom at their November 1991 meeting.

Motion: Upon presentation of the original receipt, the Council will reimburse R.J. Marks II \$1832.90 for a Xerox photo copier (including a spare cartridges and a spare drum). Beginning on January 1, 1992, the machine will be depreciated as follows:

30%	first year
25%	second year
15%	third year
15%	fourth year
15%	fifth year

If R.J. Marks II is removed or resigns from the Editorship of the *IEEE Transactions on Neural Networks*, he agrees, at the request of the Council, to purchase the machine at the depreciated price. Alternately, the Council may choose to have the copy machine shipped, at their expense, to another center of Council activity.

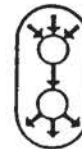
Sincerely,

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks

cc: Russ Eberhart, NNC President



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief
Transactions on Neural Networks

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

February 1, 1992

NNC Publications Committee
Stamatis Kartalopoulos, Chair
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981

Dear Dr. Kartalopoulos,

Here is an item I request be considered at the upcoming Publications Committee meeting in San Diego, and subsequently by AdCom.

Subject: *Stationary for Associate Editors*

Background: Attached is a letter from Ms. Maglori concerning stationary costs. I am requesting that the Publications Committee recommend to AdCom that each Associate Editor of the *IEEE Transactions on Neural Networks* be authorized to order 100 pages of personalized stationary each year. Currently, Associate Editors are given generic stationary on which they print their own addresses.

Motion: The Council approves supply of each Associate Editor of the *IEEE Transactions on Neural Networks* up to 100 copies of personalized stationary each calendar year.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks



IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

(908) 562-

To: Ruth Wagner
From: Elizabeth Maglori *em*
Subject: Stationery Prices
Date: January 30, 1992

Here are the charges we spoke about. The cost for printing 100 sheets of stationery is approximately \$20.00; the cost for printing 500 sheets of stationery is approximately \$39.25. The majority of the costs for printing consists basically of prep charges, and printing in larger quantities entitles you to quantity discounts. In addition to the printing charges, there will be a typesetting charge of approximately \$18.00 (for personalization).

The typesetting and printing charges combined for 500 personalized envelopes is approximately \$58.00. Unfortunately we do not provide printed/gummed labels for mailings.

I hope this answers your questions. If I can be of any other assistance, please do not hesitate to contact me.

IEEE TECHNICAL ACTIVITIES

IEEE CONFERENCE INFORMATION SCHEDULE

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full Title of Conference 1992 RNNS/IEEE Symposium on Neuroinformatics
2. Dates of Conference Oct 7 - Oct 10, 1992
3. Location of Conference (full name and address) Rostov-on-Don, Russia
4. Estimated Attendance 400 (50 from USA) 5. Exhibits Yes No
6. Will there be a Conference Publication? Yes No
- If yes, check one: Conference Record Other (explain) _____

IEEE ENTITY INVOLVEMENT

7. Enter below the names of all involved IEEE and non-IEEE entities and their percent of financial share. Identify IEI entity involvement as either Sponsor, Co-Sponsor, Participating or Cooperating as defined on the reverse side.

Entity	Type of Involvement				Percentage
	S	CS	P	C	
Entity <u>IEEE Neural Network Society</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% <u>US credits/debits handled by</u>
Entity <u>RNNS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% <u>Russian - 4-11-11-11</u>
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____

8. Has the section within whose geographical boundaries the Conference is being held been notified? Yes No
If yes, who was contacted? Juri Gulyaev - Head of Popov Society IEEE Moscow Section
Name Section
9. Has an IEEE Conference Insurance Form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telep number.

CONFERENCE CHAIRMAN Witali Dumin Borzkowski Tel.No. (8632) 280 57
Address Rostov State University, 194/1 Stachka Ave
Rostov-on-Don 344104, USSR Fax.No. (8632) 244 31

INFORMATION CONTACT Dmitry Kaplan hm Tel.No. (206) 747 5126
Address 3819 165th Pl SE
Bellevue, WA 98008-5859 Fax.No. (206) 892-9180

COMMITTEE MEMBERS

If available, please attach to this form a complete list of Conference Committee members, their titles, addresses, and telephone numbers.

SUBMITTED BY: Dmitry - see above Tel.No. _____
Address _____ Fax.No. _____

Conference Position Treasurer

SIGNATURE [Signature] - 206-392-9180 Date 2/23/92

RETURN TO: IEEE CONFERENCE SERVICES
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.
FAX: (908) 562-1571
KEEP A COPY FOR YOUR RECORDS

Committee members for 1992 RNNS/IEEE Symposium on Neuroinformatics:

Symposium Chair: Witali Dunin-Barkowski
International Chair: Robert Marks II
Program co-chairs: Alexander Frolov and Wesley Snyder
Local Committee Chair: Anatoly Kovalyov

Advisory Board: **Chair:** Jury Gulyaev
 Robert Hecht-Nielsen Robert Marks II
 Eduard Manykin Andrej Mikaelyan

Plenary Speakers:
 R. Hecht-Nielsen M. Ito
 A. Kalyaev T. Kohonen

Program committee:

A. Amit	S. Amari	J. Bezdek
R. Borisyuk	J. Bower	G. Carpenter
A. Chernavsky	R. Eckmiller	N. Farhat
T. Fukuda	A. Gorban	A. Gutman
M. Ito	M. Klenin	R. Newcomb
A. Petrov	L. Podladchikova	I. Rybak
P. Simpson	J. Taylor	S. Thomas
A. Vedenov	V. Yachno	



REQUEST FOR CONFERENCE INSURANCE

Regions 7-8-9-10
(Conferences Held Outside USA)

Conference Insurance Office
IEEE Service Center
445 Hoos Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(908) 981-0060 Ext. 5404
FAX (908) 981-0027

The following coverage is in effect for the conference dates listed below. The form must be completed in full and received by the Conference Insurance Office with a list of the conference officers and committee members at least 90 days prior to the start of the conference.

Conference Name 1992 RNNS/IEEE Symposium on Neuroinformatics
Conference Dates Oct 7 - Oct 10, 1992
Conference Hotel or Center TBA
Conference Location (City & Country) Rostov-on-Don, Russia

BONDING \$500 Deductible	\$ 100,000
RENTAL OF EQUIPMENT \$500 Deductible	\$ 5,000
MONEY & SECURITIES - IN & OUT ROBBERY \$500 Deductible	\$ 25,000
LIABILITY & PROPERTY DAMAGE	\$1,000,000
LIMITED VOLUNTEER LIABILITY Covers volunteers while acting within the scope of his duties, only for the duration of the conference.	\$1,000,000
AUTOMOBILE NON OWNERSHIP & HIRED CAR COVERAGE This will provide coverage if you hire tour buses.	\$1,000,000
UMBRELLA LIABILITY \$10,000 Deductible	\$2,000,000

CONFERENCE CHAIRPERSON OR TREASURER Please type or print the following information and sign this form.

Name Dmitry Kaplan
Conference Title Treasurer / Liaison
Address 3819 165th pl SE
Bellevue WA 98008-5859
Phone No. (206) 747-5126
Signature [Signature]
Date 2/23/92

FOR OFFICIAL USE ONLY			
CONF DATE	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Mo.	Date	Yr.
Date Rec'd	<input type="text"/>		
Date Ack	<input type="text"/>		
Off&Ctm List	<input type="text"/>		
<input type="checkbox"/>	INSURANCE CLAIM		
<input type="checkbox"/>	FILE COMPLETE		



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART II EXPENSE

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All expense items may be expressed in either U.S. Dollars or in local currency.

SEE ATTACHED

Full title of Conference 1992 RNNS / IEEE Symposium on Neuroinformatics

Dates of Conference _____

PROMOTION	Budget	Interim Report	Final Report
Printing / Call for Papers	\$ _____	\$ _____	\$ _____
Printing / Advance Program	_____	_____	_____
Printing / Final Program	_____	_____	_____
Mailing Lists / Labels	_____	_____	_____
Postage	_____	_____	_____
Other _____	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
CONFERENCE PUBLICATION			
Conference Record / Digest Printing	\$ _____	\$ _____	\$ _____
Author Kits Printing	_____	_____	_____
Shipping to Site and IEEE Hq.	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)			
Total	\$ _____	\$ _____	\$ _____
SOCIAL FUNCTIONS (Itemize event on separate sheets.)			
Total	\$ _____	\$ _____	\$ _____
ADMINISTRATION			
Insurance & Bonding	\$ _____	\$ _____	\$ _____
Security & Guard Service	_____	_____	_____
Projection Equip. Rent & Operator	_____	_____	_____
Management, Secretarial Services	_____	_____	_____
Office Equip. Rental	_____	_____	_____
Printing forms, Tickets, Stationery, Etc.	_____	_____	_____
Posters, Signs, Badges, Etc.	_____	_____	_____
Telephone	_____	_____	_____
Transportation	_____	_____	_____
Gratuities, Etc. (Attach details)	_____	\$ _____	\$ _____
Total	\$ _____	\$ _____	\$ _____
ALL OTHER			
Committee Expenses	\$ _____	\$ _____	\$ _____
Other (Attach Details)	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
TOTAL EXPENSES	\$ _____	\$ _____	\$ _____

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: _____

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars - at the current conversion rate - when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name Dmitry Kaplan Tel. No. (206) 747-5726

Address 3819 85th Ave SE

Conference Position President

SIGNATURE [Signature] Date 2/23/92

NOTE: BE SURE TO ATTACH THIS FORM TO "PART I: INCOME" AND MAIL BOTH FORMS TOGETHER

Budget 1/2

50 participants from US	Total foreign (in US\$)	Total Russian (in roubles)
ADMINISTRATIVE EXPENSES:		
transportation between airports guidance and food in Moscow	2,500.00	
Airport transport in Rostov, service in airport	500.00	1,400
Secretarial	300.00	1,000
Symp bag, pen, papers	500.00	4,000
Building and room rent	1,000.00	2,000
Equipment rent	300.00	1,000
Ship rent	500.00	1,000
Communication, mail	1,000.00	1,000
Bus rent in Rostov	640.00	2,000
Coffee	1,000.00	6,000
Abstracts printing	3,000.00	6,000
Invited speakers	7,500.00	1,000
Reserve	1,000.00	600

Subtotal:	(19,840.00)	27,000
OTHER EXPENSES:		
CONFERENCE TRAVEL	(9,000.00)	
PUBLICITY EXPENSES	(1,800.00)	
TOTAL EXPENSES	(30,640.00)	
INCOME:		
tantantive NSF support	15,000.00	
Registration	12,500.00	
TOTAL INCOME:	27,500.00	

Budget 2/1

The following are expenses that are likely to be born by conference attendees

	US\$ per person
Food	100.00
Hotel for 4 nights:	
de luxe	480.00
double for 1	320.00
single	260.00
double for 2	160.00

Date: Mon, 17 Feb 1992 17:53:25 -0500
From: htn@csl36h.csl.ncsu.edu (Dr. H. Troy Nagle Jr.)
To: faldana@ieee.org, j.aylor@ieee.org, jmf6@po.cwru.edu, o.garcia@ieee.org
pimentel@disam.upm.es, r.begun@ieee.org, r.j.jaeger@ieee.org,
r.marks@ieee.org, rce@rti.rti.org, t.hissey@ieee.org,
w.tompkins@ieee.org
Subject: TAB/Region 9 Initiative for 1994
Cc: e.arriola@ieee.org, h.fernandez@ieee.org, h.rudnick@ieee.org,
j.miguez@ieee.org, l.gandia@ieee.org, t.nagle@ieee.org

MEMORANDUM

TO:

Communications Society (Fred Andrews, Richard Jaeger)
Computer Society (James Aylor, Oscar Garcia)
Engineering in Medicine and Biology Society (Janie Fouke, Willis Tompkins)
Industrial Electronics Society (Robert Begun, Juan Pimentel)
Neural Networks Council (Russ Eberhart, Robert Marks)
Power Electronics Society (Fernando Aldana, Thomas Wilson)
Power Engineering Society (Ted Hissey, Robert Dent)

FROM:

Troy Nagle and Hugh Rudnick

DATE:

February 17, 1992

CC:

Luis Gandia, Eduardo Arriola, Hugo Fernandez-Verstegen,
and Juan Carlos Miguez

SUBJECT: Proposal for 1994 TAB/Region 9 Technical Program

In September, 1990, the IEEE Technical Activities Board and IEEE Region 9 conducted a two-week Colloquium at five different IEEE Sections in South America. The Colloquium was organized as a series of technical presentations, round-table discussions, and university and industrial visits at each site (Rio de Janeiro, San Paulo, Buenos Aires, Montevideo, and Santiago). Fourteen Technical Societies and Councils participated in the event. The sessions at each of the five sites were very successful. One of the key findings from discussions with local IEEE members is their intense desire to host IEEE Society-sponsored technical conferences. At the conclusion of the Colloquium, we (Hugh Rudnick from Region 9 and Troy Nagle from TAB) agreed to try to encourage the IEEE Societies to hold more technical meetings in Region 9, and to target 1994 as the starting date for a new program of technical conferences, short courses and tutorials, distinguished lecturer and other TAB activities in the Region. The new program will be a cooperative venture between TAB and Region 9.

During the 1990 Colloquium, seven Societies/Councils (S/Cs) were identified as being candidates for this new program (Communications, Computer, Engineering in Medicine and Biology, Industrial Electronics, Neural Networks, Power Electronics, and Power Engineering). The technical fields of interest of these S/Cs were frequently requested in the cities we visited. The purpose of this memorandum is to Initial actions within these seven S/Cs that might lead to their holding technical meetings in Region 9 in 1994. The most urgent matter is to identify potential conferences (new ones or existing ones) that could be programmed as joint Society/Region/Section/Chapter activities. Since 1994 is rapidly approaching, planning for these events should begin immediately.

Is your Society interested in increasing its activities in Region 9? Can you suggest a technical meeting (new or existing) that might be conducted somewhere in Region 9 in 1994 or thereafter? Please let us know about any possibilities within your Society. We are especially interested in the names of individuals that might be willing to serve on the Organizing Committees for the technical meetings. TAB and the Region 9 Committee will hold their next meetings in April. We would like to have your response by the end of March so that we may report to each body at its next meeting.

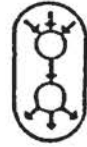
Thank you for considering this new initiative in Region 9. Please give us your ideas and suggestions for activities that might become part of this new program.

ADDRESSES:

Fred Andrews (PO Box 448, Colts Neck, NJ 07722)
Richard Jaeger (r.j.jaeger@ieee.org)
James Aylor (j.aylor@ieee.org)
Oscar Garcia (o.garcia@ieee.org)
Janie Fouke (jmf6@po.cwru.edu)
Willis Tompkins (w.tompkins@ieee.org)
Robert Begun (r.begun@ieee.org)
Juan Pimentel (pimentel@disam.upm.es)
Russ Eberhart (rce@rti.rti.org)
Robert Marks (r.marks@ieee.org)
Fernando Aldana (faldana@ieee.org)
Thomas Wilson (Elect. Eng., Duke Univ., Durham, NC 27706)
Ted Hissey (t.hissey@ieee.org)
Robert Dent (Power Authority of New York, 123 Main St., White Plains, NY)
Troy Nagle (t.nagle@ieee.org)
Hugh Rudnick (h.rudnick@ieee.org)
Luis Gandia (l.gandia@ieee.org)
Eduardo Arriola (e.arriola@ieee.org)
Hugo Fernandez-Verstegen (h.fernandez@ieee.org)
Juan Miguez (j.miguez@ieee.org)



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

February 3, 1992

To: NNC AdCom Members

Subject: Information Item on *Nominations for 1993 NNC Officers*

Background: The immediate Past President of the Council serves as the Chair of the Nominations Committee, which is a standing committee of the Council. The other members of the Committee are

Dr. H. Vincent Poor
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
(609) 258 1816
FAX: (609) 258-3745
poor@ivy.princeton.edu

Dr. Teck Seng Low
Electrical Engineering Dept.
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511
FAX 779 1103
772 2129
elelowts@nusvm.bitnet

The Officers of the Council are President, Vice-President, Treasurer and Secretary. Each of the current officers is eligible for reelection in 1993.

Nomination Procedure: Voting members of the NNC AdCom are eligible to nominate officers. All nominations must be accompanied by a second from an eligible voting member. Nominations should be sent to the Committee Chair or a Committee member by May 4, 1992. The election will take place at the AdCom meeting held in conjunction with the Baltimore IJCNN (June 7-12, 1992). The Committee will disclose all valid nominations in a report to be distributed to AdCom members prior to the meeting.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, Chair
NNC Nominations Committee

cc: Dr. Teck Seng Low
Dr. H. Vincent Poor

Applied Physics Laboratory



Robert J. Marks
Neural Networks Council
University of Washington
Seattle, WA 98195

Oct. 3, 1991

Dear Dr. Marks

The Neural Networks Council (NNC) appointed me to be a liaison member to the IEEE Committee on Man and Radiation (COMAR). The purpose of COMAR is to represent the IEEE in matters associated with health effects related to electrical and electromagnetic exposure. A major activity is to develop position statements for public dissemination.

I participated in a COMAR meeting as a new representative of NNC last July. The meeting was held in connection with the Bioelectromagnetics Society annual meeting in Salt Lake City. Membership in COMAR is listed in Attachment A.

Attachment B outlines the planned agenda for the July meeting. Some recent activities of COMAR are summarized below.

1. Position paper on research needs. The committee approved a position paper entitled "Research in the area of health effects of power frequency electric and magnetic fields". The position statement was motivated by the opinion commonly held by the scientific community that focused research is needed to define safe limits for human exposure to ELF fields.

2. Position paper on "Currents of Death". A recent book appeared by Paul Brodeur entitled "Currents of Death". The book takes the position that many in our society are exposed to dangerous levels of EM radiation due to exposure to power lines, video display terminals, and other sources. COMAR commissioned Eleanor Adair to develop a critical review of Brodeur's book. A synopsis of the 33-page review was published in the February, 1991 issue of the IEEE Power Engineering Review (Attachment C).

3. Other Activities in progress.

- Letter drafted to MACWORLD in response to several articles on health risks associated with video display terminal EM fields, including one article by Paul Brodeur (July, 1990).
- Draft report on safety of EM pulse simulators (by Howard Bassen)
- Draft report entitled "Medical Applications of EM Fields" (by C. H. Sutton et al.)
- Safety of hand-held police radar transmitters.

Interested parties may contact me for a fuller description of COMAR activities and publications.

A handwritten signature in cursive script that reads "J. Patrick Reilly".

J. Patrick Reilly

cc: R.E. Eberhart

Johns Hopkins Road, Laurel, Maryland 20723-6099

Washington (301) 953-5000 Baltimore (301) 792-5000

<u>Officers</u>	<u>Term/Officer</u>	<u>Term/Elected Member</u>
Dr. James Lin, Chairman*	1990-1991	1988-1990
Dr. John Osepchuk, Vice Chairman*	1990-1991	1988-1990

<u>Elected Members</u>	<u>Term</u>
Dr. Eleanor Adair*	1991-1993/2nd Term
Mr. Howard Bassen*	1990-1992
Dr. Thomas Budinger*	1990-1992
Dr. C.K. Chou*	1990-1992
Mr. Robert Curtis*	1990-1992
Dr. John D'Andrea	1989-1991
Dr. David N. Erwin*	1989-1991
Dr. Kenneth Foster*	1990-1992
Dr. Om Gandhi*	1989-1991
Mr. Louis Heynick	1991-1993
Dr. Bengt Knave	1990-1992
Dr. Leeka Kheifets	1991-1993
Dr. Robert Liburdy	1991-1993
Mr. Gregory Lotz	1990-1992
Dr. Sol Michaelson*	1991-1993
Dr. Kjell Mild	1990-1992
Dr. George Mine	1991-1993
Dr. John Monahan	1989-1991
Dr. Granger Morgan*	1991-1993
Dr. William F. Pickard*	1989-1991
Dr. Charles N. Rafferty	1990-1992
Dr. Lee Rosen	1991-1993
Dr. Asher Sheppard	1990-1992
Dr. Carl Sutton*	1991-1993/2nd Term
Dr. Thomas S. Tenforde	1989-1991

<u>Liaison Members</u>	<u>IEEE Representation</u>
Dr. Robert Ashley*	Instrumentation & Measurement Society
Mr. Fred Cain*	Antennas & Propagation Society
Dr. Marcus Durham*	Industrial Applications Society
Dr. Thelma Estrin*	IEEE United States Activities Board
Dr. William Feero*	Power Engineering Society
Dr. Leonard Frizzell*	Ultrasonics, Ferroelectrics and Frequency Control Society
Dr. Dennis Hjeresen*	Circuits and Systems Society
Mr. Daniel Hoolihan*	Electromagnetic Compatibility Society
Mr. John Kean*	Broadcast Technology Society
Mr. Seymour Krevsky*	Engineering Management Society
Dr. Javaid Laghari*	Dielectrics & Electrical Insulation Society
Mr. Ron Petersen*	Microwave Theory & Techniques Society
Dr. Charles Polk*	Engineering in Medicine and Biology Society
Dr. Patrick Reilly*	Neural Networks Council
Mr. William Tackaberry*	IEEE United States Activities Board
Mr. Donald W. Zipse*	Industrial Applications Society

<u>Others</u>	
Mr. Frederick Lipps	(Status Not Known)
Mr. G. Andrew Mickley	Alternate to Dave Erwin

* = IEEE members



UNITED STATES ACTIVITIES

Promoting Career and Technology Policy Interests of Electrical, Electronics & Computer Engineers

United States Activities Board

Technology Policy Council

Aerospace R&D Policy
Communications &
Information Policy
Defense R&D Policy
Energy Policy
Engineering R&D Policy
Health Care Engineering Policy
Man & Radiation

Government Activities Council

Congressional Fellows
Washington Internship for
Students of Engineering
Legislative Report
National Government Activities
State Government Activities
Technology Policy Conference
Technology Transfer
U.S. Competitiveness

Member Activities Council

Awards & Recognition
Communications
Continuing Engineering Education
Employment Assistance
IMPACT
Opinion Survey
Precollege Education
'Professional' Perspective
Salary Survey

Professional Activities Council for Engineers (PACE)

PACE Regional & Divisional Activities
PACE Information/Workshop
Student Professional Awareness

Career Activities Council

Anti-Discrimination
Career Maintenance & Development
Ethics
Intellectual Property
Licensure & Registration
Manpower
Pensions

IEEE-USA Office

(202) 785-0017

"Information Line" Recording

(202) 785-2180

Facsimile

(202) 785-0835

COMMITTEE ON MAN AND RADIATION

Little America Hotel
Arizona Room
Salt Lake City, Utah
(801) 363-6781

Thursday, June 27, 1991

6:00 p.m. - 10:00 p.m.

1. Call to Order/Introductions
2. Approval of Agenda/Minutes of November 4, 1990 Meeting
3. Chairman's Remarks:
 - A. Committee Annual Plans
 - B. COMAR Approved Statements
 - C. January - June Accomplishments
 - D. Collaboration with CCIP
4. Reports from Ad Hoc Subcommittees:
 - A. High Peak Pulse Power -- Howard Bassen
 1. Issues and Future Activities
 2. Statement on Safety of Electromagnetic Pulse Simulators
 - B. RF Sealers -- Om Gandhi
 1. Issues and Future Activities
 2. Statement on Health Aspects of Exposure to Electromagnetic Fields from ~~RF~~ Sealers and Dielectric Heaters ^{RF}
 - C. Medical Applications -- Carl Sutton
 1. Issues and Future Activities

IEEE-USA, 1828 L Street, N.W. Suite 1202, Washington, DC 20036-5104

The Institute of Electrical and Electronics Engineers, Inc.

- D. Microwave and Radio Frequency Fields -- C.K. Chou
 - 1. Issues and Future Activities
 - 2. Proposed Statement on Exposure to Radio Frequency Fields from Wireless Telecommunications Services
- E. EM Fields From VDT -- T.S. Tenforde
 - 1. Issues and Future Activities
- F. Power Line Frequency Electric and Magnetic Fields -- Charles Polk
 - 1. Issues and Future Activities
- 5. New Business:
 - A. Safety of Police Radars
 - B. Nomination of New Vice Chairman
 - C. Nomination of New Members
 - D. Notice of Expiring Memberships
 - E. Other
- 6. Next Meeting Date: ~~November 2, 1991~~
Sunday, Nov 3, 9 AM - 2 PM, Orlando, Fla
- 7. Adjournment

NOTICE

The meeting will be preceded by a dinner
for COMAR members at 6:00 p.m.

New Business
Opposite: Fear of EM - exploitation by commercial enterprises,
Gandhi: NIH review process: send letter to Congressman
Hess and Bossen VDT: Vitamins & Limits standards for RFI & VLF.

Currents of Death: Rectified

A Response to the Book by Paul Brodeur

W.R. Tackaberry, COMAR Member at Large

The following summary is based on an analysis by Eleanor Adair of the Committee on Man and Radiation (COMAR). The complete 33-page report is available from Chris Brantley, IEEE-USA, Suite 1202, 1828 L. Street, N.W. Washington, DC 20036-5104.

As a professional society representing more than 300,000 engineers and scientists whose work has brought into being the myriad devices, appliances, and systems using electromagnetic energy, the Institute of Electrical and Electronics Engineers (IEEE) has a responsibility to evaluate the extant literature on the biological effects of electromagnetic fields and report this information to both the engineering community and the public at large. The Committee on Man and Radiation (COMAR) of the IEEE comprises about 30 members drawn from biological science, engineering, physical science, medicine, and industry. All are experts in some aspect of the interaction of electric and magnetic fields with biological systems and, as detailed in the COMAR Charter, "The Committee may undertake specific actions in the form of accurate and factual reports, news releases, etc., readily understandable to the layman to further the public perception of nonionizing radiation." Although, understandably, there is a range of opinions among the COMAR membership on the proper interpretation of the database and how well it may serve to underlie decisions on safety for exposed persons, there is also a strong desire to counter misrepresentations of that database by those lacking proper expertise or perspective.

Dr. Eleanor R. Adair, one of COMAR's members, was asked by the committee to prepare an analysis of Mr. Paul Brodeur's book, *Currents of Death: Power Lines, Computer Terminals, and the Attempt to Cover Up Their Threat to Your Health*. Dr. Adair is a Fellow at the John B. Pierce Laboratory in New Haven, Connecticut, and a senior research scientist and lecturer at Yale University. The

material in this article is taken from sections of Dr. Adair's report.

Environmental issues pervade our society, issues that frequently seem to exceed our ability to comprehend the problem or frame a scientifically sound response. Some of these issues, such as global warming, drought, and nuclear war may be characterized as *first-tier problems* that are global in impact, a threat to the survival of our species and civilization. Others, like significant oil spills, issues of land use, and pollution of air, ground, and water, form a *second-tier* that may threaten local ecosystems and endanger certain species. In a *third-tier*, we find a host of issues involving a narrower focus in which the potential impact is also on the health of individuals. The third-tier issues are no less worthy of concern than first- or second-tier, because they include diseases, local pollution of air and water, chemicals in the food chain, and radiation. Although exposures may be widespread, the risk to an individual from any one of these factors is usually very low so that any harmful effects would be widely scattered in the population. Often, the health impact cannot be related to exposure without elaborate statistical methods that sort through the data of vast human experience. Because the individual seems to be a random target of an indiscriminate silent stalker, third-tier issues can accumulate a measure of attention and dread that are disproportionate to the low level of individual risk.

A recent book, *Currents of Death: Power Lines, Computer Terminals, and the Attempt to Cover Up Their Threat to Your Health* (Simon and Schuster: New York, 1989), by Paul Brodeur is based on a series of articles in the New Yorker. It places the spotlight on electromagnetic fields (EMFs) in the environment, an especially vexing example of a third-tier problem. While nonionizing electromagnetic energy has never been held to be completely harmless (after all, microwave ovens cook

food), exposures at very low levels have been thought to be benign. However, there is now controversy arising from epidemiologic and laboratory research that suggests there may be health problems resulting from environmental sources of EMFs.

The problems associated with electromagnetic energy (both ionizing and nonionizing) are typical of the third-tier issues. Historically, scientists have had considerable insight into the dangers of high-level exposures (affecting very few people), but the scientists are less sure when addressing exposures at the low levels to which most of the population may be exposed. Until fairly recently, the term *radiation* referred in the public domain to medical diagnosis and treatment by X-rays, or to other man-made sources of ionizing radiation (e.g., weapons production and testing, nuclear power reactors) and to the natural radiation encountered on earth (e.g., sunlight, cosmic rays, radon). There is a good, albeit incomplete, understanding of an interactive mechanism between high-energy ionizing radiation and biological tissues whereby considerable energy is deposited in the DNA molecule resulting in mutations of the cellular DNA (the genetic material of cells). In this way, ionizing radiation may influence reproduction (contribute to birth defects and miscarriages) and cancer rates. However, extrapolation into regions where there is no data is uncertain and still a source of controversy.

Paul Brodeur introduces his readers to some possible biological hazards from the nonionizing portion of the electromagnetic spectrum for which there is a parallel degree of understanding concerning high levels of exposure, but for which scientists have far less insight about low-level exposures. The existence of definite thresholds for specific biological endpoints, coupled with a lack of evidence for cumulative effect, has undoubtedly contributed to the inadequate understanding of low-ion-

tensity interactions. Mr. Brodeur's book is divided into three parts which focus on:

- Electric power transmission and distribution, telecommunications, radio and TV broadcasting
- Radar, geomagnetic fields
- Computer screens (video display terminals or VDTs).

In all these cases, the fields are labeled *nonionizing* because they are far too weak to change the number of electrons in atoms and molecules and therefore too weak to cause cell mutations by direct alteration of DNA.

Electric power, distributed at 60 Hz in the U.S.A., has been companion to the growth of our civilization throughout the twentieth century. Barring the well-characterized hazards of minor shocks or of electrocution, our power distribution systems, neighborhoods, homes, and offices have been assumed to pose no hazard from exposures to the accompanying electric and magnetic fields. Similarly, except very close to antennas where the fields are strong enough to heat the tissues of the body, the energy from broadcast stations, microwave communication towers, and radar devices, known to decrease rapidly with distance from the source, was considered too weak to pose a hazard. Until certain reports were recently published, similar arguments held for VDTs where, except for possible eyestrain, muscle fatigue and postural problems (dubbed *ergonomic factors*), the devices seemed innocent enough. Also, the fields from power distribution lines and home appliances were held to be so slight that they were essentially ignored. In all cases, the EMF was thought to be too weak to heat tissues, too weak to alter biochemicals, and too weak to excite or otherwise affect individual cells.

What do researchers working on these issues now tell us? First, reports from a number of laboratories claim biological effects on the cellular level from exposure to low intensity 60 Hz and other low-frequency electric and magnetic fields; these effects generally have not been independently replicated and cannot be satisfactorily explained with current knowledge and theories. The most reliable effects occur in the presence of field strengths that are orders of magnitude greater than those encountered in everyday life. Second, several epidemiological studies ap-

pear to show an association between cancer, especially childhood leukemia, and exposure to a surrogate index of 60 Hz magnetic fields. Third, one epidemiological survey, out of at least eight, purports to demonstrate a potential for adverse pregnancy outcomes among VDT users. The scientific bedrock is nowhere evident in these studies and, in particular, the evidence for adverse health effects in human beings is far from conclusive.

The book, *Currents of Death*, elaborates on these issues. However, the source materials cited by Mr. Brodeur are of variable calibre, including not only technical reports published in peer-reviewed journals by researchers conducting laboratory and epidemiological research, but also numerous columns from private newsletters (*Microwave News* and *VDT News*), personal interviews, committee reports, and portions of public and private records. This uneven literature, combined with an approach that is heavily biased, sheds far more *heat* than light on a most difficult public health question.

It is the COMAR consensus that the book, *Currents of Death* authored by Paul Brodeur, does not provide a complete or a balanced account of the research conducted to date on health effects that may be associated with exposure to low-frequency, low-intensity, electric and magnetic fields. This imbalance is evidenced by a disregard of scientific principles that guide the research and analysis process and by the omission of any discussion of established, prudent

regulatory practices. Admittedly, accurate in many dates, names, and facts, this seemingly well-researched and thorough book appears to be science reporting for the intelligent lay audience. Mr. Brodeur has cloaked himself in the language and style of a science reporter while tackling many difficult engineering and biological topics.

Unfortunately, the mantle of science reporter is an illusion, as the reader is provided with a story that does not weigh all of the available evidence. Instead, Mr. Brodeur presents *selected* findings that produce the impression that power distribution lines and cancer, altered Ca-efflux from cells and health hazards, VDTs and reproductive abnormalities are causally linked. The author chooses sides and identifies the *good guys* as those who report biological effects in the laboratory and find positive associations in epidemiological studies. On the other hand, the *bad guys* practice obfuscation, mendaciousness, and cover-ups in the service of corporate or military bosses. In his entertaining tale of right and wrong, Mr. Brodeur casts aside the scientific approach and treats questionable research with the same respect as sound research, as long as the results support his theme. He deftly builds the case for health hazards, concomitantly casting into unfavorable light respected institutions such as the National Academy of Sciences, the centers for Disease Control, the World Health Organization, and the American Medical Association, all of whom have examined this issue without finding convincing evidence or risk to humans.

Call for Papers

1991 Sessions On Nuclear Power Systems

November 5-7, 1991, Santa Fe, New Mexico

To be held in conjunction with the Nuclear Science Symposium, the 1990 Sessions on Nuclear Power Systems (SNPS) will again be held in conjunction with the Nuclear Science Symposium. The technical sessions on nuclear power systems will cover modernization, operations, maintenance, advance LWR, plant life extension, I and C, and other related subjects currently of major interest to nuclear power generating stations and the supporting services and suppliers. A special session on nuclear standards is part of this program and provided yearly by the Nuclear Power Engineering Committee of the PES.

Abstracts and summary must be submitted prior to the April 19, 1991 deadline to:

- Jay Forster, Quadrex Corporation, 1700 Dell Avenue, Campbell, California 95008, phone (408) 370-4202, FAX (408)370-4391
- Guy Armantrout, LLNL, P.O. Box 5504, L-440, Livermore, CA 94550, phone (415)422-1594, FAX (415)294-4587.

From marks Tue Oct 22 20:23 Robert J. Marks II Library Archive

Received: by milton.u.washington.edu

(5.65/UW-NDC Revision: 2.1) id AA14237; Tue, 22 Oct 91 20:22:53 -0700

Date: Tue, 22 Oct 91 20:22:53 -0700

From: Robert Marks <marks@u.washington.edu>

Message-Id: <9110230322.AA14237@milton.u.washington.edu>

Sender: marks@milton.u.washington.edu

To: f.smits@ieee.org, kang@uivlsi.csl.uiuc.edu, kim@ee.washington.edu, marks, soma@ee.washington.edu

Subject: CD RomComCon

Cc: a.burgmeyer@ieee.org, r.geiger@ieee.org, w.tompkins@ieee.org

Status: RO

CD RomComCon

Minutes of Meeting concerning CD ROM recording of IEEE Conference Records, Monday, October 31, 1991, Seattle, Washington.

Attendees:

Steve Kang, President, IEEE CAS Society

Mani Soma, ISCAS Program Chair

Robert Marks, President, IEEE Neural Networks Council

Charter: Initiate and take action towards CD ROM display of Conference Proceedings in 1992.

1. Soma contacted Yongmin Kim to attend the meeting to have EMBS representation. Kim is very interested in helping, but could not attend this meeting. Representation looks like CAS, EMBS and NNC.
2. Kang & Marks reported the hallway conversation in Cancun concerning the CD ROM project (with Willis Tompkins, past EMBS President, Friedholf Smits, and Randy Geiger, CAS President Elect). Smits, who is working towards placing the IEEE Transactions & Journals on CD-ROM, agreed in Cancun to be an ex-officio member. A similar project has been launched by EMBS. Some of the ideas expressed below are due to EMBS.
3. Does the project need to be financed outside of the conferences? If so, possible sources include industry grants, the participating Societies/Council and the TAB New Ventures Comm.

RESOLVED:

- (a) Go for plain vanilla CD ROM first. Bells and whistles, such as search, interactive programs and multimedia, may be added later.
- (b) It's a good idea at the first conference to give both the Proceedings hard copy and the CD ROM with a discount coupon. Later conferences can offer an option.
- (c) CAS is aiming at CD ROM'ing its Proceedings in May 92. EMBS apparently has the same goal. So does the NNC. The NNC, due to it's youth, would like to CD ROM all it's Proceedings.
- (d) A good working name for the Committee is CD RomComCon (CD ROM Committee for Conference Records). Got a better

idea?

(e) Soma will ride point on the project.

ACTION ITEMS:

(A) Soma will query his contacts at Microsoft and Aldus for support, both in talent and money. Both companies have a vested interest in the wide spread use of CD ROM readers.

(B) Soma will work with Kim to interface with CD ROM reader manufactures, both for support and for discount tickets for purchase. These manufacturers will certainly want booths at the conferences where the CD ROM is introduced.

(C) Soma will work with Kim to coordinate activities with EMBS, as to not duplicate efforts.

(D) Both Kang and Soma will make queries concerning CD-ROM manufacture with their contacts.

(E) Marks will query Smits concerning format standards.

(F) Marks will talk with Ann Burgmeyer at IEEE Press regarding timing issues for simultaneous conventional press & CD ROM publication.

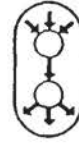
(G) Marks will coordinate a conference call in late October. Reports will be given on action items and the next steps assessed. Proposed participants: Kang, Kim, Marks, Smits, Soma.

Submitted for your approval,

Bob Marks
10-23-91



NEURAL NETWORKS COUNCIL



Roy S. Nutter, Jr. *TREASURER*
Chair, ~~Meetings Committee~~

PLEASE REPLY TO:
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506 USA
Tel: (304) 293-6371, ext 23
FAX: (304) 293-5024
e-mail: rsn@a.coe.wvu.wvnet.edu

MEMORANDUM

TO: Jim Bezdek
FROM: Roy Nutter, NNC Treasurer *Ry Nutter*
DATE: January 22, 1992
SUBJECT: Duties of Meetings Committee Chair

Enclosed is my effort to document the duties of the Meetings Committee Chairman.

Enc.

cc: Russ Eberhart
Pat Simpson
Toshio Fukada
✓ Bob Marks

Duties of Meetings Chair

1. **Maintain current Meeting Matrix**
Be sure that conferences are placed on the NNC meeting matrix and that all IEEE required key dates and key budgeting dates are met.
2. **Correspond with IEEE Service Center, 445 Hoes Lane, PO Box 1331, Piscataway, NJ, 08855-1331, so they can send each conference & forum chair a copy of the IEEE Conference Planning guide.**
3. **Correspond with each conference organizing chairman to frequently remind him of budgeting due dates to NNC.**
4. **Maintain Minutes Book for NNC Meetings Committee**
5. **All actions by Meetings Committee are "recommendations" to NNC Administrative Committee (AdCom)**

Method: Discuss openly and at length all meetings related business in Meetings Committee. Then take conclusion to AdCom in form of a "formal motion."
6. **Work through IOC (InterOperating Committee: consists of 3 members from IEEE NNC and 3 members from INNS. See IOC document for method of operation.) Chair of IOC alternates between IEEE and INNS (IEEE in odd numbered years).**
7. **Forums: Meetings Committee will:**

Review and approve NNC related forums that are in the best interest
Keep matrix of received/approval status.
8. **Send meetings listings and updates to IEEE TAG for listing in TAG meetings book.**

Consent Agenda:

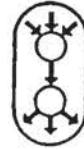
- Approval of Associate Editors of NN Trans.
- Termination of agreement with INNS

New Business:

- Regional interest groups



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief
Transactions on Neural Networks

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

February 1, 1992

Russell Eberhart, President
IEEE Neural Networks Council
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Dear Dr. Eberhart,

I hereby submit for approval by AdCom the following new Associate Editors for the *IEEE Transactions on Neural Networks*.

Motion: The NNC AdCom consents to appointment of the Associate Editors listed below.

Prof. James C. Bezdek
The University of West Florida
Computer Science
11000 University Parkway
Pensacola, Florida 32514-5750

Prof. Mohamed El-Sharkawi
University of Washington, MS FT10
Department of Electrical Eng.
Seattle, WA 98195

Dr. B. H. Juang
AT&T Bell Laboratories 2d 534
600 Mountain Avenue
Murray Hill, NJ 07974

Dr. Thomas F. Krile
Department of Electrical Eng.
Texas Tech University
Lubbock, Texas 79409-3102

Professor Sun-Yuan Kung
Princeton University
Dept. of Electrical Engineering
Princeton, NJ 08544

Dr. R. C. Lacher
Florida State University
Dept. of Computer Science
206 Love/ B-173
Tallahassee, FL 32306-4019

Dr. Clifford Lau
ONR Code 1114 SE
800 North Quincy St
Arlington, Va 22217-5000

Dr. Kuo Chun Lee
Cirrus LOGIC, Inc.
B2-410
3100 West Warren Avenue
Fremont, CA 94538

(continued)

Prof. George Lendaris
Systems Science & Eng.
Portland State University
P.O. Box 751
Portland, OR 97207-0751

Patrick K. Simpson
Oricon Corporation
9363 Towne Centre Dr.
San Diego, CA 92121

Dr. Seho Oh
University of Washington
Department of Electrical Eng.
Seattle, WA 98195

Professor Jacek Zurada
Department of Electrical Eng.
University of Louisville
Louisville, Kentucky 40292

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II', written in a cursive style.

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks

cc: Stamatios Kartalopoulos, Chair
NNC Publications Committee

February 24, 1992 *** DRAFT *** DRAFT *** DRAFT *** DRAFT *** DRAFT ***

*
*
D
R
A
F
T
*
*
*

Dr. Paul Werbos, President
International Neural Network Society
1250 24th Street, N.W., Suite 600
Washington, D.C. 20037

Dear Dr. Werbos:

It is with regret that I must inform you that, as a result of deviations from agreed commitments by INNS, we consider the IEEE NNC/INNS Agreement terminated effective immediately.

The decision to terminate our agreement was made after extensive discussion of the issues involved within the IEEE Neural Networks Council leadership and consultation with Corporate IEEE.

Specifically, the current issue involves our joint conference that was planned for Beijing China with Professor Zong Sha as its Chairman. INNS failed to accept Professor Sha's authority by not providing him with an approved budget sufficiently in advance of the meeting and interfered with his local arrangements in violation of an agreement signed November 26, 1991 by Professor Zong Sha, Mr. Morgan Downey and Dr. Harold Szu.

Over the recent past, it has become increasingly difficult, if not impossible, for our volunteer leadership to communicate directly with their INNS volunteer counterparts to resolve such issues. We hope that conditions will change and that our organizations will again be able to actively work together for the benefit of our profession.

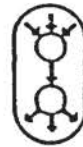
In accordance with IEEE's commitment to abide by the Agreement while it was in force, and in accordance with the previous budget approval process, any surplus from the Baltimore conference to be held in 1992 will be divided evenly between the IEEE Neural Networks Council and the INNS.

Very truly yours,

Russell C. Eberhart

cc: I. Engelson
E. Herz
J. Powers
M. Downey

*** DRAFT *** DRAFT *** DRAFT *** DRAFT ***



NEURAL NETWORKS COUNCIL

Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

February 3, 1992

To: NNC AdCom Members

Subject: *Establishment of Regional Interest Groups*

Background: A number of regional groups have approached the Council concerning establishment of Local Sections of the NNC. Councils, unlike Societies, are not eligible to formally create Local Sections. In order, however, to address the needs of local IEEE membership, the Council's ExCom acknowledges the need for the recognition and support the such groups. This motion will formally institutionalize Council *Regional Interest Groups* (RIGS). If the Council later chooses to evolve to the status of Society, it is anticipated that these RIGS will become local sections of the Society. RIGS will deal with technical issues covered in the Council's *Field of Interest* statement (i.e., neural networks, fuzzy systems, genetic algorithms).

Motion: The IEEE Neural Networks Council hereby establishes recognition of Regional Interest Groups (RIGS). NNC RIGS will be associated, in name, with local IEEE sections (i.e., the Singapore NNC RIG after the IEEE Singapore Section). Membership in RIG's is open to all members of Societies belonging to the NNC. RIG's are subject to all IEEE policy and regulations, including those applicable to local sections. Establishment of RIG's will through a Council RIG Committee, the Chair of which will be appointed by the Council President with the consent of AdCom. RIG's will be approved by AdCom at the recommendation of the RIG Committee. Each RIG may bill the Council for up to \$1000 each year for expenses relating to travel and lodging of participants in the Council's Distinguished Lecturer Program or for other speakers approved by the Council RIG Committee. Additional funds can be made available through a vote of AdCom.

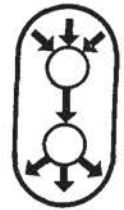
A handwritten signature in black ink, appearing to read 'R.J. Marks II', with a long horizontal flourish extending to the right.

R.J. Marks II, Past President
IEEE Neural Networks Council

cc: Rick Alan, TRW, Mesa, AZ
J.J. Choi, Boeing, Seattle, WA
Sung Yang Bang, Kyungbuk, Korea
Marcelo H. Ang, National University of Singapore
K.F. Cheung, Hong Kong University of Science & Technology
D.C. Park, Florida International University
Yianni Attikiozel, The University of Western Australia



THE INSTITUTE OF ELECTRICAL
AND ELECTRONICS ENGINEERS, INC.

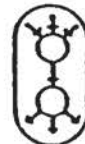


IEEE
NEURAL NETWORKS COUNCIL
AdCom Meeting
March 8-9, 1992

Town and Country Hotel
San Diego, California



NEURAL NETWORKS COUNCIL



Russell C. Eberhart
President

February 25, 1992

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-~~6666~~ 7123
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

Dear AdCom Participant:

This book contains material relevant to items on the agenda for the Neural Networks Council AdCom meeting in San Diego, California, March 8-9, 1992. There is a lot of information here. Please take the time to review it prior to the meeting. If each person is generally familiar with the contents of this book, our meeting will go much more quickly and smoothly. It is my hope that we can finish our AdCom business on March 8, and not have to continue the meeting on March 9.

I look forward to meeting with you in San Diego.

Very truly yours,

A handwritten signature in cursive script that reads "Russ Eberhart".

Russ Eberhart

Ex Com
 10-12 sunset

PROPOSED AGENDA
 IEEE NNC ADOCOM MEETING
 San Diego, California
 March 8-9, 1992

Meetings: 10-3
 Pub 1 PM
 4
 Island 1 PM

Esquire
 Sante fe
 Awards

1. Introduction of attendees and presentation of proxies -- (Tab 1)
2. Approval of Agenda
3. Approval of Minutes of July 1991 Meeting - - - - - (Tab 1)
4. Reports
 - a. Officer Reports
 - President - - - - - (Tab 2)
 - INNS Relations
 - Vice President - - - - - (Tab 3)
 - Treasurer - - - - - (Tab 3)
 - 1992/1993 Budget status
 - Secretary
 - Editor's Report - - - - - (Tab 3)
 - Transactions on Neural Networks
 - Transactions on Fuzzy Systems
 - NNC Newsletter
 - b. IJCNN Oversight Committee - - - - - (Tab 3)
 - c. Standing Committees - - - - - (Tab 4)
 - Awards Committee
 - Education Committee
 - Fellows Committee
 - Meetings Committee
 - Workshop cluster (Marks) → OMIT
 - Singapore IJCNN (Low)
 - FUZZ IEEE '92 (Bezdek)
 - Baltimore IJCNN (Lau)
 - Rostov-on-Don Symposium (Snyder) — Not approve Beijing
 - Beijing IJCNN (Sha)
 - FUZZ IEEE '93 (Ruspini)
 - Nagoya IJCNN (Fukuda)
 - Inverse Forum (Marks)
 - Power Forum '93 (Marks) → Singapore
 - SP Forums (Marks) → Copenhagen
 - VR Conference (Marks) Caudell
 - VR Workshop (Fukuda) → Perth ICNN
 - Meeting Management Contract (Marks)
 - Nominations Committee (Marks)
 - Publications Committee
 - Stationery for Associate Editors
 - Budget Requests
 - Advertising rates for Transactions
 - Standards Committee → Other Business
 - TNN Associate Editor's Reception
 - G.A. Transactions
 - comp soc press & nn's
 - Ex Ad Board Out
 - Verbatim Paper
 - Other Reports
 - CD RomComCon (Kartalopolous)
 - COMAR (Marks)
 - Video Tutorials (El-Sharkawi)

5. Consent Agenda - - - - - (Tab 5)
 - a. Approval of Associate Editors' Appointments
 - b. Approval of Standing Committee Chairs' Appointments
6. Discussion Items
 - (a) Relationship with INNS (adjourn to executive session)

Trademarks
 Questionaire

standards
 Committee

~~President's
 Reports~~

(Report) Russ Report
 Common Board
 Pub Comm
 Kant

- b. Baltimore Conference
 - c. Beijing Conference
 - d. Portland Conference
 - e. Nagoya Conference
 - f. '94 World Congress
7. Old Business
- a. Towards a Society
8. New Business - - - - - (Tab 5)
- a. NNC Membership
 - b. Council Name Change
 - c. Council Structure
 - d. New Conference Activities
 - e. Establishment of Regional Interest Groups
 - f. Council History

g.
h. Fuzz Award

LIST OF MATERIAL IN TABS

- Tab 1: List of NNC ExCom, AdCom, and Standing Committee Chairs
IEEE NNC Constitution and Bylaws
July 1991 NNC AdCom meeting minutes
- Tab 2: Survey of neural network community
1992 TAB Workshop Notes
IEEE/INNS Agreement
Feb. 1992 correspondence with INNS
Feb. 1992 correspondence with IEEE Beijing Section (CIE)
Jan. 1992 NNC ExCom meeting minutes
Nov. 1991 NNC ExCom meeting minutes
Oct. 1991 email from INNS
Sep. 1991 correspondence with INNS
- Tab 3: Trademark search
NNC Treasury Summary
Letter regarding surplus for Seattle IJCNN
IEEE Investment Asset Analysis
Neural Networks Transactions Editor's Report
July 1991 IOC meeting minutes
- Tab 4: Awards approval by TAB
Video Tutorial Committee report
1992 Baltimore IJCNN budget
FuzzIEEE '93 budget
FuzzIEEE '93 Meeting Management contract
World Congress '94 Meeting Management contract
Publications committee items:
- Advertising policy
- Conflict of interest
- Photocopy machine
- Stationery for Assoc. Eds.
Rostov-on-Don Symposium
Region 9 meetings
Nominations for 1993 NNC officers
Committee on Man and Radiation report
CD RomComCon report
List of duties for Chair of Meetings Committee
- Tab 5: Consent Agenda:
- Approval of Associate Editors of NN Trans.
- Termination of agreement with INNS
New Business:
- Regional interest groups

TAB 1

List of NNC ExCom, AdCom, and Standing Committee Chairs
IEEE NNC Constitution and Bylaws
July 1991 NNC AdCom meeting minutes

IEEE NEURAL NETWORKS COUNCIL

February 25, 1992

NNC EXECUTIVE COMMITTEE (ExCom) (1992)

President

Russell C. Eberhart
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709
(919) 541-7123 (O)
(919) 481-4269 (H)
rce@rti.rti.org
fax: 919-541-8746

Vice President

Patrick K. Simpson
Orincon Corporation
9363 Towne Centre Drive
San Diego, CA 92121

Treasu

rsn@a.coe.wvu.wvnet.edu
FAX: (304) 293 5024
(H) (304) 599-8838

Secretary

(The Secretary Chairs the Constitution and Bylaws Committee)

Toshio Fukuda, Chair
Nagoya University
Department of Mechanical Engineering
Furo-Cho, Chikusa-Ku
Nagoya, Japan
81 52 781-5111, Ex. 4478, 3301
FAX: (052) 781-9243
d43131a@nucc.cc.nagoya-u.ac.jp
81-3-3268-2545 (H)

Past President

(the Past President Chairs the Nominations Committee.)

Robert J. Marks II
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA98195
(206) 543-6990
marks@milton.u.washington.edu
FAX: (206) 543-3842

STANDING COMMITTEES

Publications Committee

Stamatios Kartalopoulos, Chair
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981
(201) 386-4289
FAX: (201) 386-6346.

Transactions Editor

Robert J. Marks II, Editor-in-Chief
IEEE Transactions on Neural Networks
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street SW, Suite N
Lynnwood, WA 98036-7138
(206) 543-6990
marks@milton.u.washington.edu
FAX: (206) 543-3842

Awards Committee

Bradley Dickinson, Chair
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
bradley@ivy.princeton.edu
(609)258 -4644
FAX: (609) 258-3745

Fellows Committee

Robert W. Newcomb, Chair
Microsystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD 20742
FAX (301) 454-1837
301-454-6869 (O)
301-454-8830 (Lab)
newcomb@ENEEVAX.ENG.UMD.EDU
301-662-0177 (Home)

Meetings Committee

James C. Bezdek, Chair
Nystul Professor
The University of West Florida
Computer Science
11000 University Parkway
Pensacola, Florida 32514-5750
(904) 474 2784
(904) 479 3817 (H)
FAX 904 474 2096
jbezdek@uwf.bitnet

Standards Committee

Walter Karplus, Chair
3732 Boelter Hall
UCLA
Los Angeles, California 90024
(213) 825-2929
FAX (213) 825-2273
karplus@cs.ucla.edu
Home: (213) 472-8632

Education Committee

Robert W. Newcomb, Chair
Microsystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD 20742
FAX (301) 454-1837
301-454-6869 (O)
301-454-8830 (Lab)
newcomb@sparcee.eng.umb.edu

COUNCIL MEMBER SOCIETY REPRESENTATIVES

Circuits and Systems

Edgar Sanchez-Sinencio (1991-92)
Dept. of Electrical Engineering
Texas A&M University
College Station, Texas 77843
(409) 845 7498
FAX (409) 845 7161
sanchez@ee.tamu.edu

Robert W. Newcomb (1992-93)
Microsystems Laboratory
Electrical Engineering Dept.
University of Maryland

College Park, MD
FAX (301) 454-1837
301-454-6869 (O)
301-454-8830 (Lab)
newcomb@sparcee.eng.umb.edu
301-662-0177 (Home)

Communications

Kesh Bakhru (1991-92)
Cubic Corporation
9333 Balboa Avenue
San Diego, CA 92123
(619) 277-6780, ext. 2648
FAX: (201) 386-6346.

Stamatios Kartalopoulos (1992-93)
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981
(201) 386-4289

Control Systems

Herbert E. Rauch (1991-92)
Lockheed 92-30/250
3251 Hanover Street
Palo Alto, CA 94304
(415) 424-2704
FAX: (415) 424-3106

Bradley Dickinson (1992-93)
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
bradley@ivy.princeton.edu
(609) 258-4644
(609) 258 2916 (Dean's Office)
FAX: (609) 258-3745
(415) 895 0647 (H)

Engineering in Medicine and Biology

Shiro Usui (12/93)
Physiological Engineering Lab
Information and Computer Sciences
Toyohashi University of Technology
usui@tut.ac.jp@relay.cs.net
Hibarigaoka Tenpaku
Toyohashi, Japan 441
+81 532 47 0111
FAX +81 532 46 7806

Charles J. Robinson (1991-92)
Rehabilitation R&D Center

Hines VA Hospital
P.O. Box 20
Hines, IL 60141
(312) 343-7200 Ext. 2240

Industry Applications Society

George E. Cook (12/92)
Vanderbilt University
Box 2215, Station B
Nashville, TN 37235
(615) 322-2259

Bimil K. Bose (12/93)
Dept. of Elec. Engg.
Ferris Hall 419
University of Tennessee
Knoxville, TN 37996

Industrial Electronics

H. Troy Nagle (12/92)
Electrical and Computer Engineering
North Carolina State University
Box 7911
Raleigh, NC 27695-7911
t.nagle@ieee.org
919-515-3578 (O)
919-515-7382 (Fax)

Evangelia Micheli-Tzanakou (12/93)
Biomedical Engineering
Rutgers University
P. O. Box 909
Piscataway, NJ 08855-0909
etzanako@nova.rutgers.edu
908-932-3155, 2037 (O)
908-932-3753 (Fax)

Information Theory

Anthony Kuh (1991-92)
University of Hawaii at Manoa
Honolulu, HI 96822
(808)-948-7576
kuh@wiliki.eng.hawaii.edu

Terrance L. Fine (1992-93)
Cornell University
School of Electrical Engineering
Phillips Hall
Ithaca NY 14853
607 255 3643
tlfine@sibelius.ee.cornell.edu

Lasers and Electro-Optics

Dr. Tien-Hsin Chao (12/93)
Jet Propulsion Laboratory
M/S 300-329
4800 Oak Grove Drive
Pasadena, CA 91109

Nabil H. Farhat (1991-92)
Moore School of Eng.
University of Pennsylvania, D-2
33rd and Walnut Sts.
Philadelphia, PA 19104
215 898 5882
farhat@pender.ee.upenn.edu

Oceanic Engineering Society
Richard Trueblood (1990-91)
Oricon Corporation
9363 Towne Centre Dr.
San Diego, CA 92121

Robotics and Automation

Thomas Miller (1990-91)
Dept. of Elec. and Computer Engineering
Kingsbury Hall
University of New Hampshire
Durham, New Hampshire 03824
(603) 862-1326
t_miller@unhh.unh.edu

Wesley E. Snyder (1991-92)
Dept. of Radiology
Bowman Gray School of Medicine
300 S. Hawthorne
Winston-Salem, NC27103
(919) 748 3908 (O)
(919) 851 1433 (H)
(919) 851 1433 (FAX)
wes@mrips.bgsm.wfu.edu
wes@sailboard.bgsm.wfu.edu
wes@piedmont.mthcsc.wfu.edu

Signal Processing

Les E. Atlas (1991-92)
Interactive Systems Design Laboratory
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA98195
(206) 543-1315
les@isdl.ee.washington.edu
FAX: (206) 543-3842

Richard P. Lippmann (1990-91)
MIT Lincoln Laboratory
P.O. Box 73
Lexington, MA02173
(617) 981-2711
rpl@sst.ll.mit.edu

3 $\overline{) 10}$
28

Systems, Man, and Cybernetics

Don E. Brown (1990-91)
Dept. of Systems Engineering
University of Virginia
Charlottesville, VA 22903-
(804) 924-5393
deb@virginia.bitnet

James M. Tien (1991-92)
Dept. of Decision Sciences & Eng. Sysys.
Rensselaer Polytechnic Institute
Troy, New York 12180-3590
(518) 276 6486
FAX (518) 276 8227
jmtien@rpitsmts.bitnet

CONSTITUTION AND BYLAWS
FOR THE IEEE COUNCIL ON NEURAL NETWORKS

CONTAINS AMENDMENTS THROUGH DECEMBER 31, 1991

CONSTITUTION
TABLE OF CONTENTS

ARTICLE I	NAME AND PURPOSE
	Section 1 Name
	Section 2 Purpose
ARTICLE II	FIELD OF INTEREST
	Section 1 Field of Interest
ARTICLE III	MEMBERSHIP OF COUNCIL
	Section 1 Council and Member Societies
	Section 2 New Member Societies
	Section 3 Removal of Member Societies
	Section 4 Officers of Council AdCom
	Section 5 Voting Members of Council AdCom
	Section 6 IEEE Membership Requirement
	Section 7 Terms of Member Society Representatives
	Section 8 Vacancies of Member Society Representatives
	Section 9 Non-Voting Ex-Officio Members of Council AdCom
	Section 10 Liaison Representatives
ARTICLE IV	ELECTION AND APPOINTMENT OF OFFICERS
	Section 1 Election of Vice-President
	Section 2 Method of Election
	Section 3 Filling of Council Office Vacancies
ARTICLE V	POWERS, PRIVILEGES, AND DUTIES
	Section 1 Duties of Representatives
	Section 2 Duties of Officers and Members
	Section 3 Appointment of Secretary, Treasurer Publications, Meetings Committee Chairpersons
	Section 4 Duties of Council President
	Section 5 Establishment of Standing Committees
	Section 6 Duties of Vice-President
	Section 7 Duties of Secretary
	Section 8 Duties of Treasurer
	Section 9 Council Officer's Terms of Office
	Section 10 Expenditures and Debts
	Section 11 Honoraria and Travel Expenses

CONSTITUTION

TABLE OF CONTENTS

ARTICLE I	NAME AND PURPOSE
	Section 1 Name
	Section 2 Purpose
ARTICLE II	FIELD OF INTEREST
	Section 1 Field of Interest
ARTICLE III	MEMBERSHIP OF COUNCIL
	Section 1 Council and Member Societies
	Section 2 New Member Societies
	Section 3 Removal of Member Societies
	Section 4 Officers of Council AdCom
	Section 5 Voting Members of Council AdCom
	Section 6 IEEE Membership Requirement
	Section 7 Terms of Member Society Representatives
	Section 8 Vacancies of Member Society Representatives
	Section 9 Non-Voting Ex-Officio Members of Council AdCom
	Section 10 Liaison Representatives
ARTICLE IV	ELECTION AND APPOINTMENT OF OFFICERS
	Section 1 Election of Vice-President
	Section 2 Method of Election
	Section 3 Filling of Council Office Vacancies
ARTICLE V	POWERS, PRIVILEGES, AND DUTIES
	Section 1 Duties of Representatives
	Section 2 Duties of Officers and Members
	Section 3 Appointment of Secretary, Treasurer Publications, Meetings Committee Chairpersons
	Section 4 Duties of Council President
	Section 5 Establishment of Standing Committees
	Section 6 Duties of Vice-President
	Section 7 Duties of Secretary
	Section 8 Duties of Treasurer
	Section 9 Council Officer's Terms of Office
	Section 10 Expenditures and Debts
	Section 11 Honoraria and Travel Expenses

ARTICLE VI FINANCIAL SUPPORT & EXPENDITURES

- Section 1 Regular Income
- Section 2 Additional Revenues
- Section 3 Prohibited Expenditures

ARTICLE VII MEETINGS

- Section 1 Meetings
- Section 2 Annual Meeting
- Section 3 Quorum
- Section 4 Alternate Representatives
- Section 5 Business Conducted by Telecommunication
- Section 6 Lack of Quorum

ARTICLE VIII PUBLICATIONS

- Section 1 Publication Policies
- Section 2 Publication of Council Periodicals
- Section 3 Appointment of Editors

ARTICLE IX CONFERENCES AND TECHNICAL MEETINGS

- Section 1 Meetings Policies
- Section 2 Time and Locations of Meetings

ARTICLE X RECALL

- Section 1 Recall of Member Society Representatives
- Section 2 Recall of Voting Procedures

ARTICLE XI AMENDMENTS

- Section 1 Adoption and Amendment of Constitution
- Section 2 Adoption and Amendment of Bylaws
- Section 3 Precedence of IEEE Constitution, Bylaws, and Policies
- Section 4 Effective Date of Constitution

CONSTITUTION FOR THE
IEEE COUNCIL ON NEURAL NETWORKS

ARTICLE I

NAME AND PURPOSE

Section 1. The name of the organization constituted herein shall be the IEEE Council on Neural Networks.

Section 2. The purpose of the Council is to advance and coordinate work in the field of Neural Networks carried out throughout the IEEE and as such is exclusively scientific, literary and educational in character. In furtherance of the foregoing, the Council may publish appropriate periodicals, sponsor IEEE Neural Networks related conferences and conference sessions, sponsor IEEE Press publications, and engage in any other activity within its field of interest. All such actions must be in consonance with the Constitution, Bylaws, and Statements of Policy of the IEEE, with special attention to such aims within the field of interest of the Council as are hereinafter defined.

ARTICLE II

FIELD OF INTEREST*

Section 1. The field of interest of the Council and its activities and programs shall consist of aspects of the theory, design, and applications of neural networks that range from software to hardware. Changes to the field of interest may be made with approval of the IEEE Technical Activities Board.

ARTICLE III

MEMBERSHIP OF THE COUNCIL

Section 1. The Council shall be composed of IEEE Societies which have demonstrated a strong interest in Neural Networks and are supporting technical activities in the field. These Societies must agree to share the responsibility for all obligations of the Council, including those financial, in accordance with this Constitution and the Council Bylaws.

Section 2. Each new Member Society must be approved by a two-thirds affirmative vote of the voting members of the Council AdCom, and by the IEEE Technical Activities Board before it may join the Council.

Section 3. If a Member Society does not have any representative present at any of the Council AdCom meetings held during a calendar year and is inactive in Council affairs, the

* Amended. See Amendments Section.

Member Society may be dropped from Council membership. Notice of such proposed action shall be given to the President of the delinquent Society at least twenty days before the Council AdCom meeting where such action will be considered. Such action must be approved by two-thirds of the AdCom members present and voting and by the IEEE Technical Activities Board before it becomes final.

Section 4. The officers of the Council shall be as follows: President, Vice-President, Secretary, and Treasurer.

Section 5. Council business will be conducted by its AdCom which will include both voting and non-voting members. The voting members will be:

- a. Two representatives to be appointed by each Member Society.
- b. The President, Vice-President, Secretary and Treasurer
- c. The most recent available immediate past President of the Council.

An individual may not serve concurrently as both a Council officer and a Council Member Society representative. When a Member Society representative is elected to a Council office, the Council office shall take precedence over the Society appointment, and any resulting vacancy(s) shall be filled promptly by the appropriate Society.

Section 6. Each representative and officer on the Council must be an IEEE member.

Section 7. The term of office of a Member Society representative on the Council shall be two years with each of the two Society representatives appointed by the Society in alternate years. No Society representative shall be eligible to serve more than four consecutive years. An unexpired term filled for more than six months shall count as a full year. Reappointment after the completion of any term of four consecutive years may be made only after a lapse of at least one year.

Section 8. When a within-term Council representative vacancy occurs, the Council President shall request the appropriate Society to appoint a representative to complete the unexpired term.

Section 9. The non-voting ex-officio members of the Council AdCom will be:

- a. The Director of the Division in which the Council resides.
- b. The TAB Staff Secretary.
- c. The General Manager of IEEE.
- d. The IEEE Vice-President for Technical Activities.

Section 10. Any other IEEE Society which is not a member of the Council may send a non-voting liaison representative to attend for the purpose of establishing lines of communication between the Council and the parent Society represented.

ARTICLE IV

ELECTION AND APPOINTMENT OF OFFICERS

Section 1. Every year, the voting members of the Council AdCom shall elect a President, Vice-President, Secretary and Treasurer at the Annual Meeting. The officers shall serve for one year. No person shall be eligible to serve more than two consecutive one year terms for the same office.

Section 2. Officers shall be elected and appointed in accordance with the rules specified in the Council Bylaws.

Section 3. If the Office of President becomes vacant, the Vice-President shall become President for the remainder of the term assumed. If the office of Vice-President, Secretary or Treasurer becomes vacant, the voting members of the Council AdCom shall elect a new officer promptly.

ARTICLE V

POWERS, PRIVILEGES, AND DUTIES

Section 1. It shall be the duty of each representative of a Member Society to participate in matters before the Council AdCom and to keep the Administrative Committee of the Society represented informed concerning Council business. Members of any Member Society AdCom may attend any open meeting of the Council as observers.

Section 2. The duties and responsibilities of the officers and members of the Council AdCom shall be as defined hereunder and in the Bylaws, and as further delineated by the Council.

Section 3. The President shall appoint for a term concurrent with his presidency, the Editors of Council's Periodicals and the Chairpersons of the standing committees of the Council as specified in the bylaws on or before January 1st of the year in which he takes office as President. All appointments shall be made with the advice and consent of the Council AdCom. The Editor and Chairperson appointments need not be made from among the individuals who are on the Council AdCom as Society representatives.

Section 4. The Council President, under the direction of Council AdCom, shall call all regular, annual, and special Council AdCom meetings and shall preside over them. The President shall coordinate and supervise activities of the Council and have such other powers and perform such other duties as may be provided for in the Council Constitution or Bylaws or as may be delegated to the President by vote of the Council AdCom. Included in the President's duties shall be the responsibility to see that the orders and resolutions of the Council, the IEEE Technical Activities Board, the IEEE Executive Committee, and the IEEE Board of Directors are carried out. The President shall be an *ex-officio* member of all standing and special committees of the Council except the Nominating Committee. The President can vote during the election of officers. The President shall also be an *ex-officio* member of the IEEE Technical Activities Board, and, when notified of a meeting of said Board, shall ensure representation of the Council.

Section 5. Standing committees may be established as needed. With the advice and consent of the Council AdCom, the President shall appoint committee officers (and members, if such action is not specifically delegated in the establishment action of the Council) and shall fill any vacancies that occur during the year.

Individuals appointed as committee officers or members shall serve a nominal term of one year but shall continue to serve until their successors are appointed or the committee is dissolved, except where other terms are specifically designated by the Constitution or Bylaws.

The President may appoint *ad hoc* committees for special assignments as needed.

Section 6. The Vice-President shall assist the President in fulfilling all assigned duties, and shall assume the duties and have the power, privileges, and responsibilities of the President during the latter's absence or incapacity.

Section 7. The Secretary shall be responsible for all reports, petitions and records concerning the Council, keeping true and faithful minutes of all meetings of the Council AdCom, and shall prepare such reports as may be required by the Council, the IEEE Technical Activities Board, or the IEEE Executive Committee. The Secretary shall send out notices when instructed to do so by the President or in accordance with requirements of the Council Constitution or Bylaws. Copies of all meeting notices, minutes of meetings, and letter or bulletins sent and received during the previous two years shall be kept by the Secretary, except for those specifically assigned to the custody of others, and the Secretary shall send current copies to IEEE Headquarters for archival storage.

In the absence or incapacity of the President and Vice-President, the Secretary shall perform the duties of the President and have all Presidential powers, privileges, and responsibilities during the absence or incapacity of the President and Vice-President.

Section 8. The Treasurer shall propose a budget for Council operation to be endorsed by Council AdCom and approved by TAB and shall monitor expenditures to verify that they are in accordance with the approved budget. The Treasurer shall prepare financial reports as requested by the Council President, and shall keep the Treasurers of the Member Societies informed on Council financial matters affecting their budgets. The Council Treasurer shall approve the Conference budgets after they are approved by the Meetings Committee prior to being forwarded to IEEE Headquarters for review and final approval.

The Treasurer may utilize the services of IEEE headquarters as bursar for all or part of the Council funds, as provided by the IEEE Bylaws and Statements of Policy. If any parts of the Council funds is received and deposited separately, the terms and conditions shall be in accordance with IEEE policies and subject to Council Bylaws and any other limitations imposed by the Council. Disbursements shall be made on the signature or instructions of the Treasurer. If the Treasurer is disabled or unable to serve, the President may make disbursements during his incapacity.

Section 9. The President, elected and appointed officers shall normally assume office on January 1st or as soon thereafter as practicable.

Section 10. The officially constituted officers of the Council shall have the sole authority to obligate the funds and assets of the Council to promote the Council's activities, provided that no Council officer or representative shall have authority to contract debts for, pledge the credit of, or in any way bind the IEEE for activities prohibited by the Bylaws of the IEEE or the Constitution and Bylaws of the Council.

Section 11. No officer of the Council, representative on Council AdCom, or Editor shall receive, directly or indirectly, any honorarium, traveling expenses, compensation, or emolument from the Council as an officer or in any other capacity unless authorized by Council AdCom or by the Bylaws of the Council in a manner in conformity with IEEE policies and procedures.

ARTICLE VI

FINANCIAL SUPPORT & EXPENDITURES

Section 1. The financial support for the Council shall be derived from subscription sales of Council Publications, any surplus from the Conferences organized or sponsored by the Council, other programs and products sponsored by the Council, and allocations of funds provided by the Member Societies.

Section 2. The Council may raise revenues by other means provided such means are consistent with applicable IEEE rules and regulations and are within the approved Council field of interest. The Council must receive an opinion from the General Manager of the IEEE that any revenue means not explicitly covered by IEEE Statements of Policy does not conflict with IEEE policy before being adopted by the Council.

Section 3. Monies held by or for the Council legally belong to the IEEE, and shall not be expended for activities prohibited by the Constitution, Bylaws and Statements of Policy of the Institute, the Constitution and Bylaws of the Council, or any other purposes known to be inimical to the interests of the IEEE. Returns from investment of Council funds shall be credited to the Council.

ARTICLE VII

COUNCIL MEETINGS

Section 1. The Council shall hold an Annual Meeting. Additional meetings of the Council, represented by its AdCom, may be held at such times as are found necessary or convenient. Meetings of the Council AdCom may be called at the discretion of the Council President or upon request by at least four AdCom members. The time, place and agenda shall be announced to all members of the Council AdCom at least twenty days in advance of the meeting, or by first-class mail to the address of record of each Council AdCom Member at least twenty-five days in advance of the meeting.

Section 2. The Annual meeting of the Council shall normally be the last AdCom meeting of the year held at a time and place designated by the President.

Section 3. One-third of the voting members of the Council AdCom, which must include representatives from at least one-third of the Member Societies, shall constitute a quorum. Written proxies will not be accepted in determining the quorum. The Chairperson of the Publications Committee, and the Chairperson of the Meetings Committee, the Secretary, and the Treasurer shall be *ex-officio* members of the Council with a vote on all matters except election of officers and changes to the Constitution and Bylaws. If the offices of Secretary and Treasurer are combined, there shall be one vote by the officer.

Section 4. If a regular representative from a Member Society is unable to attend a meeting of the Council AdCom, the President of the Member Society may designate an alternate by a letter of proxy, who shall have all the powers of the regular representative. Officers of the Council may not delegate their powers by proxy.

Section 5. Business of the Council may be transacted by correspondence, or other telecommunication means where in the opinion of the President matters requiring action can be adequately handled in that manner. All voting members of the Council should be informed on such interim actions, and a majority of the entire Council must be reached for ratification of the actions, if balloting is necessary, unless otherwise provided by the Constitution or Bylaws.

Section 6. If less than a quorum is in attendance at duly called meetings, tentative actions may be taken that will become effective upon subsequent ratification, either at a subsequent meeting or by mail, as specified in Section 5 above.

ARTICLE VIII

PUBLICATIONS

Section 1. All Council publication activities shall be subject to IEEE policies, and to any further guidance or controls prescribed by the Council AdCom or its duly appointed committees.

Section 2. The Council may publish appropriate Periodicals in accordance with IEEE Policies and Procedures. Selection of the published material shall be in accordance with the objectives and policies of IEEE and the Council.

Section 3. The Council President, with the advice and consent of the Council AdCom, shall appoint the Editors who shall in turn appoint associate and/or guest editors as may be required to implement the publications program.

ARTICLE IX

CONFERENCES AND TECHNICAL MEETINGS

Section 1. All Council conferences and technical meeting activities shall be subject to IEEE policies, and to any further guidance or controls prescribed by the Council or its duly-appointed committees.

Section 2. The Council shall determine the time and location of each sponsored Conference and technical meeting. Furthermore, the Council shall not be bound by any agreements, within or without IEEE, made prior to ratification of this Constitution.

ARTICLE X

RECALL

Section 1. If at any time during the year and for any reason the best interests of the Council seem to require a change in Member Society representatives or officers, the matter shall be discussed at a regular or a special meeting of the Council AdCom called for the purpose of considering and voting upon the recommended change. At least twenty days before the Council AdCom meeting, notice of such proposed action shall be given to all appropriately interested individuals, including the President and Secretary of each Member Society involved and the Chairman and Secretary of the IEEE Technical Activities Board.

Section 2. An affirmative vote of two-thirds of the voting members of the Council AdCom shall be necessary to declare a vacancy for cause.

For the purposes of this Section, an abstention shall be counted as a cast negative vote.

ARTICLE XI

AMENDMENTS

Section 1. Sections of this Constitution may be adopted or amended by action of the Council at a regular or special meeting if the following provisions are met:

- a. Notice of the meeting and of the proposed change(s) must be mailed by first-class mail to the last-known address of each member of the Council AdCom at least twenty-five days prior to such meeting.
- b. A two-thirds affirmative vote of the votes cast by the members of the Council AdCom is required for passage.
- c. An amendment may be approved by a mail ballot if at least a thirty-day period is provided for responses, and two-thirds of the entire Council AdCom votes affirmatively.
- d. The Amendment shall become effective immediately after ratification by the IEEE Technical Activities Board.

Section 2. Bylaws to this Constitution may be adopted or amended by a two-thirds affirmative vote of the votes cast by the Council AdCom at a regular or special meeting, provided that notice of the meeting and a copy of the proposed change(s) is mailed by first-class mail to the last known address of each member of the Council AdCom at least twenty-five days prior to such meeting.

A Bylaw may also be adopted or amended by a mail ballot provided that a copy of the proposed change(s) is mailed to the last known address of each member of Council AdCom, at least thirty days are allowed for a reply, and a majority of the entire Council AdCom votes affirmatively.

The new Bylaw or Amendment shall be filed with the Secretary of the IEEE Technical Activities Board at least twenty days prior to the effective date.

Section 3. The Constitution, Bylaws, and Statements of Policy of the IEEE shall, at all times, take precedence over those of the Council.

Section 4. All amendments to the Constitution or Bylaws shall become effective immediately after all required approvals have been obtained, unless a later date has been specified at the time of the vote.

Constitution Adopted November 17, 1989
To Be Effective January 1, 1990

BYLAWS

TABLE OF CONTENTS

ARTICLE I	RULES OF ORDER
	Section 1 Robert's Rules of Order
ARTICLE II	MEMBER SOCIETIES
	Section 1 List of Member Societies
	Section 2 Responsibilities
ARTICLE III	NOMINATIONS AND ELECTIONS
	Section 1 Nominating Committee
	Section 2 Willingness to Serve of Nominees
	Section 3 Nominations Principles
	Section 4 Report of the Nominating Committee
ARTICLE IV	STANDING COMMITTEES
	Section 1 List of Standing Committees
	Section 2 Additional Committees
	Section 3 Subcommittees
	Section 4 Meetings Committee
	Section 5 Publications Committee
	Section 6 Nominating Committee
	Section 7 Constitution and Bylaws Committee
ARTICLE V	FINANCES
	Section 1 Budget and Reports
	Section 2 Financial Support
	Section 3 Initial Distribution of Surplus or Deficit
	Section 4 Subsequent Distribution Member Society and Conference Assessments
	Section 5 Conference Bank Account
ARTICLE VI	COUNCIL MEETINGS
	Section 1 Notification
	Section 2 Quorum
	Section 3 Secretary's Duties
	Section 4 Non-Voting Attendees
	Section 5 Meeting Cancellation
	Section 6 Location of Meetings

BYLAWS FOR THE
IEEE COUNCIL ON NEURAL NETWORKS

These Bylaws provide detailed guidance for the supervision and management of Council affairs, in accordance with the Council Constitution. Amendments or additions may be made by means of the procedures described in Article XI, Section 2, of the Constitution.

ARTICLE I
RULES OF ORDER

Section 1. In all matters not covered by the Constitution, Bylaws, and Rules, the Council shall be governed by the latest edition of Robert's Rules of Order.

ARTICLE II
MEMBER SOCIETIES

Section 1. The Member Societies of the Council shall be those formally admitted by the IEEE Technical Activities Board in accordance with the Council Constitution. A current listing of Member Societies will be maintained by the TAB Secretary at IEEE Headquarters.

Section 2. Any Member Society unwilling or unable to continue to share responsibilities as defined in the Council Constitution may resign from the Council. When a letter of resignation has been received by the Council Secretary, the resigning Society shall be dropped from the Council roll at the end of the calendar year. Any former Member Society may later rejoin, without prejudice, on the same basis as any new applicant.

ARTICLE III
NOMINATIONS, ELECTIONS, AND APPOINTMENTS

Section 1. The Nominating Committee, which is a Standing Committee of the Council, shall consist of a Chairperson and three other members. At least one shall not be a current Council member but shall belong to at least one Member Society. The officers of the Council may not serve on the Nominating Committee nor be members *ex-officio*.

Section 2. The Chairperson of the Nominating Committee shall consult with each candidate prior to nomination to determine willingness to serve if elected.

Section 3. The Nominating Committee shall be guided in its selections by the principles of efficiency, geographical distribution, past history, and technical interest.

Section 4. The Chairperson of the Nominating Committee shall submit the Committee Report to the Council AdCom at the beginning of its Annual Meeting, or with the approval of the Council President, by letter to all qualified voting officers and representatives on the Council AdCom prior to the Annual Meeting. From the floor of the same meeting or by letters mailed to the entire Council AdCom, the officers and representatives may make additional nominations.

Section 5. The names of any candidates of the Council who are not eligible under the Constitution or Bylaws shall be withdrawn by the President of the Council.

Section 6. Election of the officers, whenever a vacancy exists, shall be from those nominees as specified in these Bylaws, Article III, Sections 2, 3, 4, and 5. Elections shall be by secret ballot of the voting members of the Council AdCom. For the first year of operation of the Council, the officers must be elected by secret ballot directly by the Council AdCom. Nominations must be made by the voting AdCom members.

Section 7. If any Council office becomes vacant at any time during the year, and if the vacant office cannot be filled by logical succession of an existing Council officer as described in the Constitution and Bylaws, the Council will promptly hold an election to fill the existing vacancy. As needed, elections shall be held separately for the offices of President, Vice-President in that order. To be elected, a nominee must receive a majority of the proper votes cast. If no candidate receives a majority on a ballot, the name of the candidate receiving the smallest vote shall be withdrawn and a second ballot taken. This procedure shall be repeated until one candidate receives a majority vote.

The Council AdCom may hold contingent elections to be effective if an elected officer fails to accept office, is disapproved by IEEE Headquarters because there has been some irregularity in the nominations and election procedures, or has failed to maintain IEEE membership and Society membership.

Section 8. The President of the Council shall inform each successful candidate of his election and shall arrange for the transfer of responsibility. The name of each elected officer shall be reported to the Chairman and Secretary of the IEEE Technical Activities Board.

ARTICLE IV

STANDING COMMITTEES

Section 1. The Standing Committees shall include the following:

- Meetings Committee
- Publications Committee
- Nominating Committee
- Constitution and Bylaws Committee

Section 2. The Council may establish such additional Standing Committees as may be deemed desirable.

Section 3. Each Standing Committee shall have the power to create subcommittees of its own selection.

Section 4. The organization of each Conference or Technical Meeting sponsored by the Council shall include a Steering Committee and a Program Committee whose Chairperson shall be appointed by the President upon the recommendation of the Meetings Committee and with the advice and consent of the Council AdCom. The individual members of the respective committees should be appointed by the above officials. The Meetings Committee, with approval of the Council, may plan, organize and sponsor other activities held in conjunction with Conferences of other societies.

Section 5. The Publications Committee shall establish publication policy subject to annual review by the Council. It shall assist the appropriate Editors of Council Periodicals in the choice of special topics and in guiding and planning all Publications.

Editors may designate associate editors, special guest editors, and manuscript reviewers, doing so in accordance with general IEEE statements of Policy.

Editorial expenses must be in accordance with an annual budget approved by the Council. Editors may authorize publication expenses, but shall be responsible for adherence to the publication budget.

Section 6. The Nominating Committee shall be appointed by the President of the Council in accordance with the provisions of the Constitution and Article III, Section 1, of these Bylaws. It shall have the duties described in Article III, Sections 1, 2, 3, 4, of these Bylaws. the Chairperson of the Nominating Committee shall be the Past President of the Council.

Section 7. The Secretary of the Council shall serve as the Chairperson of the Constitution and Bylaws Committee. Additional members may be appointed by the President upon request of the Council's AdCom.

The functions of the Constitution and Bylaws Committee will be to:

- a. Maintain up-to-date copies of the Constitution and Bylaws and make them available upon request.
- b. Ascertain that the Constitution and Bylaws are not in conflict with any requirements or rules of IEEE Headquarters.
- c. Recommend changes in the Constitution or Bylaws as necessary to conform to the development of the Council or to changes by IEEE Headquarters.
- d. The Chairperson of the Constitution and Bylaws Committee shall serve as Parliamentarian and Consultant on Procedural matters at meetings of the Council AdCom.

ARTICLE V

FINANCES

Section 1. The Treasurer shall submit a proposed Council budget for the ensuing year in accordance with IEEE budget development guidelines. When approved by the Council and the TAB, this budget shall become the working budget for the following year. This approved budget will constitute authorization to the Treasurer to disburse the funds in amounts not to exceed any budgeted item.

The Treasurer shall be responsible for forwarding to IEEE Headquarters the approved budget, and Headquarters will be thereby authorized to disburse the funds in accordance with instructions from the Treasurer.

The Treasurer shall obtain a financial statement of receipts, expenditures, and balances from IEEE Headquarters at least twice yearly and shall distribute copies of this statement to all members of the Council AdCom. The treasurer shall also keep a running account of commitments to date.

Section 2. The financial support for the Council shall be derived from the income from sales of the Council Periodicals, Books and IEEE Press publications, and from its share of any surplus from the Council sponsored Conferences. The Periodicals subscription prices to members of the Council Member Societies shall be set to be no less than self-sustaining.

Section 3. In the event of a distribution of surplus, or payment of a deficit, during the first year of publication of a Council periodical, each Council Member Society shall receive or pay an equal share.

Section 4. In the event of a distribution of surplus, or payment of a deficit, during the second and subsequent years of publication of a Council periodical, each Council Member Society shall receive or pay a share according to the ratio of the number of its members who subscribe to the periodicals as of September 30th. For the purpose of determining this ratio, an individual who belongs to more than one Council Member Society shall be counted in each one. Any surplus from the Council sponsored Conferences that has been distributed to the Council may be used for operating expenses, but no other assessment may be made on the Conferences.

Section 5. The Treasurer of Council sponsored Conferences is authorized to open an account in the Conference's name, to be used for the deposit and disbursement of funds related to the Conference. The Council shall be advised of the name of the bank, the anticipated size of the account, the names of the account, signatories and of arrangements for insurance and bonding, all of which must be in accordance with IEEE policies and procedures.

ARTICLE VI

COUNCIL MEETINGS

Section 1. The Secretary shall announce to the members of the Council AdCom all Chairpersons of Standing and Special Committees and appropriate guests of the time, place, and agenda of all meetings of the Council AdCom at least twenty days in advance of the meeting or by first class mail at least twenty-five days in advance of the meeting.

Section 2. A roll call shall be made at the beginning of each Council AdCom meeting. The Secretary shall record the names of those present and announce whether a quorum exists.

Section 3. The Secretary shall transmit in writing within ten days of their adoption all motions, directives, or orders of the Council to the persons affected. The secretary shall transmit a copy of the minutes of the Council AdCom to the officers, members of the Council AdCom, Chairpersons of the Standing and Special Committees, and to the Secretary of the IEEE Technical Activities Board within thirty days of the meeting. As soon after January 1st as practicable, the Secretary shall provide a directory listing the names and address of all of the above-mentioned people to each person named therein.

Section 4. The Chairpersons of all Standing Committees who are not voting members of AdCom shall be invited to attend all meetings of the Council AdCom as guests and advisors.

Section 5. Meetings of the Council AdCom may be cancelled only by consent of a majority of all the members of the Council not less than fourteen days before the original date or the new date set for the meeting, whichever is earlier. Notice of such cancellation or changed date shall be given all Council AdCom members by mail not less than ten days before the original or the new date, whichever is earlier.

Section 6. Meetings of the Council AdCom may be held at international or regional technical meetings or conventions of the IEEE, jointly with a Section, separately, or jointly with another society, whenever such a meeting is deemed desirable by the Council.

Bylaws adopted Friday, November 17, 1989.

To be effective January 1, 1990

AMENDMENTS

#####

THE FOLLOWING AMENDMENT OF THE BYLAWS OF THE IEEE COUNCIL ON NEURAL NETWORKS WAS APPROVED BY THE COUNCIL AdCOM, NOVEMBER, 1990:

REPLACE THE ENTIRE TEXT OF ARTICLE V, SECTION 4, OF THE BYLAWS WITH

ARTICLE V Section 4. In the event of a distribution of surplus, or payment of a deficit, during the second and subsequent years, each member Society's share will be proportional to the number of years that Society has been a member of the IEEE Neural Network Council (founded 1990) and/or member of the IEEE Neural Networks Committee (founded 1987 and dissolved 1989).

#####

AT ITS JANUARY 1991 AdCOM MEETING, THE COUNCIL APPROVED THE STANDARDS COMMITTEE AS A STANDING COMMITTEE OF THE COUNCIL.

#####

AT ITS JULY 1991 AdCOM MEETING, THE COUNCIL APPROVED THE FELLOWS COMMITTEE AS A STANDING COMMITTEE OF THE COUNCIL.

#####

AT ITS JULY 1991 MEETING, AND AMENDMENT OF ARTICLE II, SECTION 1 OF THE CONSTITUTION WAS APPROVED BY AdCOM AND WAS SUBSEQUENTLY APPROVED BY TAB IN OCTOBER 1991. IT NOW READS

ARTICLE II

FIELD OF INTEREST

Section 1. The field of interest of the Council and its activities and programs shall be the theory, design, application and development of biologically and linguistically motivated computational paradigms emphasizing neural networks, including connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems, and hybrid intelligent systems in which these paradigms are contained. Changes to the field of interest may be made with the approval of the IEEE Technical Activities Board.

**Minutes of the IEEE Neural Networks Council Administrative Committee Meeting held on
July 8, 1991, in Seattle, Washington.**

The meeting was called to order at 9:10 am by President Robert J. Marks.

Present: James Bezdek, Brad Dickinson*, Watali Dunin-Barkowski, Russ Eberhart*, Irving Engelson, Toshio Fukuda*, Karen Haines, Walter Karplus, Stamatios Kartalopoulos*, Tong-Heng Lee, Bob Marks*, Troy Nagle, Bob Newcomb*, Roy Nutter*, Mike Roth, Zong Sha, Pat Simpson*, Wes Snyder*, Richard Trueblood*, Litsa Tzanakou*, Shiro Usui*, Ruth Wagner (Minutes recorder) (* denotes voting member)

The following proxies were submitted to Secretary Tzanakou:

Edgar Sanchez Sinencio to Bob Newcomb
Herb Rauch to Mike Roth
Charlie Robinson to Troy Nagle
George G. Cook to Roy Nutter
Don Brown to Litsa Tzanakou
Ed Posner to Litsa Tzanakou

Motion made and seconded: To adopt the agenda as presented with the following additions:

NN Transactions to be added under Committee Reports

Subscription Prices/non-prices to be added under Treasurer's Report

To be added under Meeting Committee report: IJCNN San Diego, motion re San Diego section, bill from plenary speaker, volunteer guidelines

PASSED

In the absence of Vincent Poor, 1991 NNC Nomination Chair, Brad Dickinson conducted the election of officers for 1992-93. The Nominating Committee slate was presented

For President - Russell Eberhart
For Vice President - Patrick K. Simpson
For Treasurer - Roy Nutter and Toshio Fukuda
For Secretary - Don Brown

Dickinson noted that the ballot in the agenda book had incorrectly listed Fukuda as candidate for Secretary. **Motion** made and seconded the following nominations were added from the floor:

For President - Bob Newcomb
For Vice President - Litsa Tzanakou
For Treasurer - Stamatios Kartalopoulos

Voting was by written ballot. The secretary was requested to review which members were entitled to vote. Election for each office was held individually. Russell Eberhart was elected President. Tzanakou then declined the nomination for Vice President. **Motion** made and seconded: To elect Pat Simpson Vice President by acclamation. PASSED. Simpson was elected Vice President. The first ballot for Treasurer failed to give any candidate a majority. Therefore the lowest candidate, Fukuda, was eliminated and a second ballot was taken with the candidates of Kartalopoulos and Nutter. Nutter was elected Treasurer. **Motion** made and seconded: Toshio Fukuda also be nominated for the position of Secretary. Fukuda was elected Secretary.

The President reminded the new officers that they could no longer represent a Society. The point then arose that Simpson (a current officer) had voted in the election just held and that this might

have affected the outcome. **MOTION** by Newcomb to invalidate the election. Motion was not seconded. Discussion ensued on the consequence of the extra vote. It was deemed to have possibly have affected only one office. **MOTION** made by Eberhart, seconded: All four officers be elected be by acclamation. **PASSED**. Four abstentions: Newcomb, Tzanakou, Kartalopoulos, Usui.

Minutes of the January 26, 1991, meeting were passed out to be reviewed.

MOTION made and seconded to pass Consent Agenda:

Education Chair - Robert W. Newcomb

NNC Liaison to the IEEE Press - Stamatios Kartalopoulos

Video Tutorials Chair - Mohamed El-Sharkawi

NNC Representative to the TAB Newsletter Committee - Wes Snyder

PASSED

Committee Reports

President's Report: New activities - Education Chair, Newcomb, with Video Tutorials chair working with him, provide liaison to the student organization; NNC sponsoring books through IEEE Press; new newsletter; IJCNN giving awards; Standards Committee is having a meeting in conjunction with this meeting for the first time; established IEEE NNC Forums, small conference workshop activities; sponsoring first conference on Fuzzy Systems in '92; Presidents' Forum with presidents or representatives from the Russian NN Society, Chinese NN Society, Japanese NN Society and Jenni, the Joint European NN Society. Introduced distinguished guests Dr. Witali Dunin-Barkowski, President of the Russian NN Society from Rostov-on-Don in the Soviet Union and Dr. Zong Sha from Beijing, the President of the Chinese NN Society. Established Video Tutorials Chair to record sessions in the studio, rather than at the actual meeting. Initiation of a World Congress on Intelligent Systems in 1994 with the International Conference on NN back-to-back with the Fuzzy Conference in one location.

Past President's Report: Troy Nagle asked participants to review the petition included in the meeting packet. He spoke about the possibility of assembly members electing themselves to ExCom for the next year with the appearance of possible conflict of interest. He urged members to circulate a petition to put the issue on the Fall, 1992, ballot. Any member can sign a petition - member, senior member, or fellow. Students, affiliates, and associate members are not voting members and are not eligible to sign.

Vice President's Report: Attended TAB meeting in San Francisco a few weeks ago. Items that will not be covered elsewhere: Societies (particularly the Computer Society as well as others) that have provision of affiliating with other professional organizations throughout the world that have similar interests - Eberhart is in the process of working with Helen Woods of the Computers Society and will bring to the next AdCom meeting what these affiliations look like and what is necessary to form them. Basically it gives members of those Societies preferential treatment in things like conference registration fees and subscriptions to transactions - don't get member fee, but don't have to pay full fee. Reiterate welcome to visitors. Forum activity is a major new thrust area as the Council evolves toward Society status. Under Tab 11 a field of interest change will be discussed - important for us to think about moving into other areas as Fuzzy Systems and Genetic Algorithms formally. With Marks, talked with other Presidents and Vice Presidents and there appears to be no difficulties in doing this.

Treasurer's Report - Tab 5 - Pat Simpson made a **MOTION**: To approve the budget as submitted, open to friendly amendments. Information Item, Attachment 3, page 2. Roth requested the "NNC Transactions" paragraph be stricken as incorrect. Referring to the last page, reflecting membership trend, the figures reflect Transactions subscribers rather than actual membership. It was determined that the budget presented was for 1991 and on **MOTION**, seconded, action on the budget was tabled until after lunch so that the 1992 figures could be presented.

Secretary's Report - Evangelia Tzanakou offered an apology for the lateness of the minutes which was due to a family member problem. (Copy attached) **MOTION** by Tzanakou: In order to help the Secretary of the Council taking minutes and keeping records, I move that a local professional secretary be hired for all future AdCom meetings with arrangements made by the Council Secretary. Seconded and PASSED.

Transactions for Neural Networks Report - Tab 6 - Mike Roth, Editor - Report as presented in Meeting Packet noting that on Attachment 3 the 1991 budget will end with a surplus. Increasing the subscription rate will possibly generate a 25 per cent increase in income. There may come a point in the future where the Council will have to pay for secretarial support.

Agenda revised to have reports of Beijing and Rostov-on-Don meetings after a five-minute recess.

Meetings Committee Report - Roy Nutter **MOTION**: On behalf of the Meetings Committee, I move that the IEEE Neural Networks Council Forum on Neuroinformatics and Neural Computers at Rostov-on-Don, USSR, be approved. This is to be a no loss forum Bob Marks is to chair the committee with Pat Simpson and Irv Engelson as members to prepare and present a budget and agreement to IEEE. In addition, in order to not conflict with the IJCNN-92 in Beijing, China, on November 3-6, 1992, this forum must be complete by October 3, 1992. Dr. Witali Dunin-Barkowski was introduced and he spoke briefly about the conference. PASSED.

Eberhart introduced Dr. Zong Sha to speak about the IJCNN in Beijing-92, Nov. 3-6, to be held at the Twenty-first Century Hotel, to be co-chaired by Prof. Amari (Japan) and Dr. Eberhart. Paper submission deadline is the end of June, 1992. There will be six post tours to Chinese cities. This conference is an INNS lead.

Announcement made about the Presidents' Forum on Tuesday night at 6:30 pm.

Publications Committee Report - Toshio Fukuda - Jim Bezdek headed an Ad Hoc Committee for Transactions on Fuzzy Systems (Tab 13). **MOTION**: To approve proposal in Tab 13 to publish IEEE Transactions on Fuzzy Systems. Seconded. People receiving the NNC Transactions would need to subscribe for \$10 - noting that new journals start low to attract students and to build a subscriber base. PASSED. Karplus abstained.

The Council's newest publication has been named "the intelligence coNNection," which the editor of "INTELLIGENCE - The Future of Computing" feels is too similar. **MOTION**: Approve change of name for the newsletter to not be in conflict with INTELLIGENCE. The proposed new name is to be approved by ExCom as well as the Publications Committee. Seconded. PASSED.

MOTION: Increase the publication of the newsletter from two issues to four issues a year with no increase in the number of pages. Discussion revealed that the cost estimate would be \$26,000 a year with no increase in the number of pages. PASSED.

MOTION: Committee recommends that the price of Transactions be increased as follows: Student from \$8 to \$9; IEEE NNC from \$10 to \$12; IEEE but not NNC \$15 to \$20; Non-member

from \$75 to \$95. Discussion revealed that the student rate is fixed at 75% and, therefore, should be eliminated from the motion. The **AMENDED MOTION PASSED** with one opposition, one abstention. Question: Are there special rate for unemployed and retired? There are rates for dues and fees which are different, covered by bylaws; students are built into structure.

Tab 16: For information: Contract for newsletter editor.

NNC Liaison to IEEE Press is Stamatis Kartolopolous who spoke to activities since last January. The IEEE Press is interested in publishing books but it was necessary to determine type of books. Successes: Sanchez-Sincineo and Lau book with working title of NEURAL NETWORKS IN CIRCUITS AND SYSTEMS; a book derived from the Proceeding by Dr. Lau entirely sponsored by NNC; and a reference book also in the Fuzzy area by Professor Bezdek. A letter has been sent saying we are interested in it. The book is currently under IEEE review. There are other proposals: one by Thomas Caudell, an intermediate level Book entitled NEURAL NETWORKS which is currently under review; another by L. Kamm is introductory, for the non-specialist engineer entitled AUTOMATION AND CONTROL SYSTEMS. This author is seeking sponsorship. Is NNC interested? Another, REAL WORLD ENGINEERING, introduces the non-robotics engineer to what is expected when you go out into the "real world."

Other information comments: 1- IEEE needs to enrich its Neural Network portfolio with more than Reprint Books, such as Series, Monographs, and Advanced level books. 2. Titles/subtitles should be more descriptive of the objectives of the book. 3. If needed, IEEE may team-up with other publishing houses to increase market. 4. IEEE encourages all members to consider book authorship.

Newcomb reported that CAS is somewhat dissatisfied with IEEE Press. Concern is that IEEE Press decided to transfer the Lau/Sanchez book to NNC. The President requested Newcomb as CAS representative to act as NNC liaison to reach a good compromise.

Awards Committee Report- Brad Dickinson - Four nominations were received for the 1991 IEEE Transactions on NN Outstanding Paper Award and the Committee selected the paper "Identification and Control of Dynamical Systems Using NN" by Prof. Kumpati S. Narendra and Mr. Kannan Parthasarathy. Paper appeared in Vol. 1 No. 1 of the Transactions. Awards Committee served as the NN Networks Pioneer Awards subcommittee. It reviewed the nominations for the 1991 IEEE NNC Pioneer Award and three award winners were selected: Stephen Grossberg, Tuevo Kohonen, and Bernard Widrow. The two sets of awards will be presented tonight. Dickinson designed a NN plaque which will be presented to each Pioneer and certificates were prepared. There were 15 plaques made, enough for the projected five years the award is approved for. The cost was slightly over. **MOTION:** Allocate a maximum of \$50 additional to the previously authorized \$500 to cover cost of producing award plaques for the Neural Network Pioneer award for the years 1992-1995. **PASSED.**

Dickinson also served as Chairman of the NNC Fellow Evaluation Committee. One Fellow nomination was reviewed for 1991 and he was asked to write one nomination endorsement letter on behalf of a nominee being evaluated by another Society.

Soliciting suggestions for new awards. Suggest it would be particularly nice to have some type of student award. Various societies do this; it's often in the form of an award for an outstanding Transactions paper authored by a student or principally co-authored by a student. If there's interest in that type of award Dickinson should follow through.

ACTION ITEM: Dickinson to draft a description of that type of award and circulate it for approval for student publication award(s).

Standards Committee Report- Walter Karplus - First meeting held last night, another scheduled for tomorrow. Background given on purpose of committee. Within IEEE each committee has its own Standards Committee. Formed Committee and an administrative subcommittee - actual work performed by working groups. Administrative Committee includes, among others, representatives from academia and government laboratories. The committee will also invite representatives of vendor organizations as consultants. Mr. Trueblood attended last night's meeting in that capacity. Will probably meet twice a year. Committee decided to encourage formation of sub groups. Among activities to start: a glossary for artificial neural networks, a collection of symbols and icons used as representations of NN; methodology of performance evaluation for hardware and software products; defining basic paradigms of NN. Adoption of standards has taken from 2 to 10 years. Also talked about interfaces between NN products and the outside. Permanent task groups will provided machinery to do as much as possible. Mary Lou Padget is vice chair and very active. A lot of travel is involved. **MOTION:** To augment current budget of \$5,000 with an additional \$3,000 for 1992 budget. **PASSED** with two abstentions.

Recessed at 12:30 for one hour lunch.

IJCNN Oversight Committee Report - Roy Nutter recognized Bob Marks to present the dissolution agreement with INNS (Tab 8) which has been signed by both organizations. Fourth paragraph, second sentence: Eliminate the word "no" so that sentence reads, "A major conference is any meeting that has an attendance of more than 400 participants at the conference site."

MOTION: The Meetings Committee unanimously recommends that the audit of IJCNN-90 San Diego be corrected by the auditors to accurately reflect the relationship with the San Diego Section. (This is a stronger wording to the motion in the minutes of April 3). Motion **PASSED**.

MOTION: The Meetings Committee recommends that a letter from the NNC be sent to the San Diego Section reflecting that "Even though there is no formal agreement between NNC and the San Diego Section, the NNC recognizes that there were many discussion attempting to form such an agreement. Even though such an agreement was never consummated, the NNC would be receptive to discussion in pursuit of future conference possibilities in San Diego." A friendly amendment was made by Pat Simpson. **AMENDED MOTION:** The Meeting Committee recommends that a letter from the NNC be sent to the San Diego Section reflecting that "in response to your request for a meeting in San Diego in 1994, plans have already been made that will not allow it to occur. Future meeting requests will be handled in accordance to IEEE NNC procedures."

Pat Simpson then read a motion that Troy Nagle planned to present:

Whereas, the Neural Network Council recognizes the contribution of the San Diego Section in initiating IEEE's involvement in Neural Networks

Whereas, all past agreements with the San Diego Section have been superceded by the Neural Networks Charter approved by the IEEE Technical Advisory Board and Executive Committee Whereas both the Neural Network Council and the San Diego Section are interested in developing a new spirit of cooperation for future conferences to be conducted in San Diego,

It is **MOVED** that the Neural Networks Council offer the San Diego Section 10 per cent sponsorship in Fuzz-IEEE '92 being held in San Diego. that a meeting of

representatives from the Neural Network Council and San Diego Section should take place within six months after Fuzz-IEEE '92 to develop future meeting joint ventures, such as the World Congress on Intelligent Systems in 1995.

MOTION by Nagle: Move to substitute the motion by Simpson for the motion on the floor. Discussion decided the motions are not in conflict. Nagle and seconder withdrew this motion.

The Amended Motion by Simpson passed.

Nagle requested the above **MOTION** starting "Whereas" be voted upon. A **FRIENDLY AMENDMENT** was added by Simpson:

It is moved that the Neural Networks Council offer the San Diego Section *up to 10 per cent* sponsorship in Fuzz-IEEE '92 being held in San Diego, *provided a mutual agreement can be made in writing between both parties*. and that a meeting of representatives from the Neural Networks Council and San Diego should take place within six months after Fuzz-IEEE '92 to develop future meeting joint ventures, such as the World Congress on Intelligent Systems in 1995.

PASSED with one abstention.

A letter from Bart Kosko explained that he had received a bill from Prof. White of University of California for \$522 for materials for his presentation after the books were closed for IJCNN-90, San Diego. **MOTION** by Nutter: Meetings Committee of the Neural Networks Council not reimburse speaker preparation costs in future events. PASSED.

MOTION by Nutter: Meetings Committee unanimously recommends that the above policy be applied retroactively to this case unless there is a written prior commitment from the conference chairman of IJCNN-90, San Diego. PASSED. This should be communicated to the speaker in question by NNC President Marks.

MOTION by Nutter: For Fuzz-IEEE-92, the Meetings Committee recommends that all tutorial presenters be paid an honorarium of \$1,000 per four-hour tutorial plus necessary and ordinary travel and lodging expenses.

AMENDMENT TO MOTION by Ruspini: Raise the cap on the speaker's fee to \$1,500. Seconded. Extensive discussion followed with the warning by Eberhart that tutorials must pay for themselves or the number of tutorials will need to be cut. Nagle raised the point that in the past the conference organizers particularly San Diego Conference '87, got a substantial financial reward. Happened again in '90. This resulted in the \$500 to \$1,000 cap. Vote by hand: 5 for and 11 against. AMENDMENT DID NOT PASS.

AMENDMENT by Eberhart to motion from Meetings Committee: Travel expenses will be at economy airfare and two night's of lodging. Died for lack of second.

Minutes are to reflect that necessary and ordinary travel and lodging shall mean a maximum of two nights lodging and economy air fare. PASSED. Speakers should be notified of this item. It was pointed out that all cooperating societies are not listed.

MOTION by Nutter from Meetings Committee: Move to approve budget for FUZZ-IEEE-92 in Tab 21 with a line item added for volunteer expenses not to exceed \$5,000.

MOTION by Nutter: Meetings Committee unanimously recommends that the revised budget submitted by Dr. Lau as "enclosure 2" (for '92 IJCNN Baltimore) be approved and that the "best guess estimate of attendance" be 1400. A line item for volunteer expenses not to exceed \$5,000

needs to be added. PASSED.

MOTION by Nutter: The Meetings Committee unanimously recommends that Dr. Enrique Ruspini be approved as General Chair of FUZZ-IEEE '93 in San Francisco. Dr. Ruspini and Nomi Feldman will choose a date in late spring. PASSED

MOTION by Nutter: The Meetings Committee recommends that IJCNN-93 Nagoya, Japan, be changed to October 25-29, 1993. PASSED

MOTION by Nutter: Move that to clarify the budget for the IJCNN-93 in Nagoya the budget be established so as to share surplus (loss) 1/3 to IEEE NNC, 1/3 INNS, 1/3 Japan NN society. PASSED

MOTION by Nutter: The Meetings Committee recommends that for 1994 IEEE World Congress on Intelligent Systems

1. Bob Marks be asked to be Congress Chair and
 2. The schedule be as shown on page 2 of handout (attached as part of minutes).
- PASSED

MOTION by Nutter: (Tab 22) The Meetings Committee recommends that NNC cooperate with Intelligent Vehicle '92 Symposium. PASSED

MOTION by Nutter: (Tab 19) The Meetings Committee moves that the following Forums be approved:

1. IEEE NNC Forum on Combining Genetic Algorithms and Neural Networks, by Don Brown and Russ Eberhart, June 6, 1992. \$2,500 seed money will be provided by NNC. This being done provided Clifford Lau, General Chair of IJCNN-92 Baltimore approves.
 2. IEEE NNC Forum on Applications of Artificial Neural Networks (ANN) Technology to Electromagnets Inverse Problems and Remote Sensing by Akira Ishimaru, November 11-13, 1992. \$7,500 seed money will be provided. This being done with concern for overlapping of IJCNN-92 Beijing.
- PASSED

MOTION by Nutter: The Meetings Committee unanimously recommends that all future events include the proceedings with any student registration. PASSED

MOTION by Nutter: Volunteers who are engaged to provide conference security and who are committed to provide twenty hours or more of service are considered to be unpaid staff. As such they receive without charge one copy of the conference proceedings as well as a name badge and admittance to conference activities. PASSED

MOTION by Nutter: The two previous motions be applied to the Baltimore budget. PASSED

Education Committee Report - Bob Newcomb. AdCom voted \$5,000 for student travel support. A procedure has been worked out. Student's will submit their own expenses. There is \$2,500 left from previously allocated money. Planning to fund 1, 2, or 3 students to go to Singapore to present their paper, depending on costs to go there.

Dr. Mohamed El-Sharkawi was introduced as Chair of Video Tutorials. He went through the attached proposal. Discussion ensued on the royalties to speaker and with IEEE, honorariums. An AdHoc Committee was appointed consisting of Pat Simpson, Karen Haines, President of ExCom,

and Wes Snyder to work with Dr. El-Sharkawi to be guided by the idea of a fair deal for the speaker and to the Council. The budget will need to be fine-tuned and submitted to ExCom for approval. **MOTION:** The Neural Networks Council hereby approve the following items regarding the subject Video Tutorial: 1. Objectives of Video Tutorials; 2. Role of IEEE Educational Activities Board; 3. Role of NNC; 4. Role of the Video Tutorial Committee; 5. Video Tutorial Budget; 6. Video Tutorial Royalties Breakdown; 7. Level of funding requested from the NNC: \$3,000 per title for up to 5 titles. Seconded. **PASSED.** A meeting was arranged for the Tutorials AdHoc Committee to meet later in the evening.

A Pioneer series sequence is a possibility.

Karen Haines passed out two handouts for information: 1. IEEE NNC Conference Volunteers Organization Agreement and 2. a letter to IJCNN Sponsorship recipients. She requested those present who are involved in academics to fill out questionnaire for the ISSNET Academic program about existing academic programs that support research in NNets.

Dr. Eberhart was presented with a Council pin for his new office as President.

MOTION: Remove from the table the motion for budget approval to be delegated to ExCom. Seconded. **DEFEATED.**

Simpson was requested to immediately prepare an overhead transparency.

NEW BUSINESS

Eberhart spoke to the need of secretarial support for the President. Mrs. Eberhart is willing to assume these duties and this is brought forth to ascertain the feeling of the group that this is not a conflict of interest. The President is currently allocated \$10,000 a year for secretarial support.

MOTION: AdCom agrees that they do not construe the hiring of Mrs. Eberhart to provide secretarial support for Dr. Eberhart in his capacity as President as a conflict of interest. **PASSED** with one abstention.

MOTION by Dickinson: Fellows Evaluation Committee be established as a Standing Committee of the NNC. **PASSED.**

MOTION by Nutter: That NNC delegate authority to establish "cooperating" status or "participating" status to the Meetings Committee for NNC. By **FRIENDLY AMENDMENT, MOTION** was changed to: I move that NNC allow the Meetings Committee to identify and commit "participation" and "cooperation" with other conference with the agreement of the NNC President. **PASSED.**

Simpson presented the 1992 budget figures (See attached) **MOTION:** That the budget as presented be adopted. **PASSED.**

NEW BUSINESS

At the request of ExCom, Pat Simpson drew up the following proposed revision to ARTICLE II of the By Laws, Section 1 to encompass the vision of the future for the Council. **MOTION BY SIMPSON:** Revise Article II, Section 1 to read:

the field of interest of the Council and its activities and programs shall be the theory, design, application and development of biologically and linguistically motivated computational paradigms including neural networks, connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems and hybrid intelli-

gent systems in which these disciplines are contained. Changes to the field of interest may be made with approval of the IEEE Technical Activities Board. Motion seconded.

Roth holding the proxy of Herb Rauch raised his concerns. Extensive discussion followed and by **FRIENDLY AMENDMENT** Section 1 was reworded to read:

The field of interest of the Council and its activities and programs shall be the theory, design, application and development of biologically and linguistically motivated computational paradigms involving neural networks, including connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems, and hybrid intelligent systems in which these paradigms are contained. Changes to the field of interest may be made with approval of the IEEE Technical Activities Board.

Pat Simpson left the meeting and gave his proxy to Russ Eberhart. In favor 15; opposed 3. Has the 2/3 needed. PASSED.

ExCom approved going forward with the registration of the trademark. The trademark will be owned by IEEE, used on Council business.

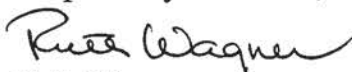
Establishment of next meeting: Proposed meetings: AdCom, Saturday, March 7, 1992 at San Diego Town & Country at FUZZ-IEEE Conference. ExCom, Monday, November 18, 1991 at Singapore Westin, Singapore IJCNN.

MOTION: Approve the proposed meeting schedule. Seconded. PASSED.

Oversight Committee is also scheduled to meet in Singapore.

MOTION: Adjourn the meeting. Seconded. PASSED. Meeting adjourned at 4:30 pm.

Respectfully submitted,



Ruth Wagner
Minutes recorder

Ad Com
For minutes



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

DIVISION X: SYSTEMS AND CONTROL

H. Vincent Poor
DIRECTOR

PLEASE REPLY TO:
Department of Electrical Engineering
Princeton University
Princeton, NJ 08544 USA
Tel: (609) 258-1816
Fax: (609) 258-3745
e-mail: poor@ivy.princeton.edu

June 20, 1991

Prof. Robert J. Marks, II
President, IEEE Neural Networks Council
Department of Electrical Engineering
MS FT-10
University of Washington
Seattle, WA 98195

RE: Nominations for 1992 Officers of the IEEE Neural Networks Council

Dear Bob:

As of today, I have received the following nominations for the 1992 officers of the IEEE Neural Networks Council:

For President: Russell Eberhart
Bob Newcomb

For Vice-President: Patrick K. Simpson *by acclamation*
~~S. Karasopoulos~~

For Treasurer: Roy Nutter
S. Karasopoulos

~~For Secretary:~~ Toshio Fukuda

For Secretary: Don Brown
Toshio Fukuda

All nominations have been seconded.

Please let me know if you have any questions concerning these nominations.

Best wishes,

H. Vincent Poor
1991 NNC Nominations Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

DIVISION X: SYSTEMS AND CONTROL

H. Vincent Poor
DIRECTOR

PLEASE REPLY TO:
Department of Electrical Engineering
Princeton University
Princeton, NJ 08544 USA
Tel: (609) 258-1816
Fax: (609) 258-3745
e-mail: poor@ivy.princeton.edu

July 5, 1991

Prof. Robert J. Marks, II
President, IEEE Neural Networks Council
Department of Electrical Engineering
MS FT-10
University of Washington
Seattle, WA 98195

RE: Correction to Nominations for 1992 Officers of the IEEE Neural Networks Council

Dear Bob:

In my letter of 06/20/91, I incorrectly listed the office for which Toshio Fukuda has received a seconded nomination. He was nominated and seconded as a candidate for Treasurer.

I apologize for this mix-up, and I hope it does not cause any difficulties with the election process.

Best wishes,

H. Vincent Poor
1991 NNC Nominations Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Survey of neural network community

1992 TAB Workshop Notes

IEEE/INNS Agreement

Feb. 1992 correspondence with INNS

Feb. 1992 correspondence with IEEE Beijing Sect. (CIE)

Jan. 1992 NNC ExCom meeting minutes

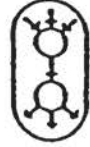
Nov. 1991 NNC ExCom meeting minutes

Oct. 1991 email from INNS

Sep. 1991 correspondence with INNS



NEURAL NETWORKS COUNCIL



Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-~~9996~~ 7123
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

The following letter was electronically posted to Neuron Digest on February 24, 1992:

Dear Neural Network Community:

In an effort to better serve the neural network community, we of the IEEE Neural Networks Council (NNC) are asking you to respond to questions concerning the role of a neural network society. We suggest that these responses be made publicly, but we also understand the need for confidentiality in some instances and respect your right to send e-mail replies directly to either one or both of us. Pat and I are asking for your input as individuals: this is not an officially sanctioned activity of the NNC. We plan to present your initial responses to the NNC Administrative Committee meeting on March 8, 1992, in San Diego, but we hope the discussion continues long after that date.

The following questions are intended to begin a discussion, but they are in no way meant to be comprehensive. We hope to establish a forum that encourages you of the neural network community to voice your feelings about neural network societies.

1. THE ROLE OF THE SOCIETY:

- a. What role should a neural network society play?
- b. In which of the following areas should a neural network society become involved? (Why?)
 - Journals
 - Employment Assistance
 - Public Relations
 - Newsletters
 - Local/regional chapters
 - Conferences
 - Lobbying for Funding
 - Standards
 - Magazines
- c. What are some other areas where societies should or could play a role? What areas should be avoided?
- d. How should a neural network society work with other technical communities such as fuzzy systems, AI, genetic algorithms, evolutionary programming, and virtual reality?

- e. How should a neural network society serve the needs of students?
Of faculty members?

2. CONFERENCE FORMATS:

- a. What type(s) of conferences are most useful to you?
- b. Are shorter conferences with a specific theme more appealing to you than a large yearly meeting, or does each have its place?
- c. How often should large meetings be held and where should they be held?
- d. What are your thoughts on the oral presentation format versus the poster presentation format?
- e. What can be done to improve conferences?
- f. What should be eliminated from conferences?
- g. How can a society get more people involved in the conferences?

We look forward to hearing from the neural network community (YOU!). It is the intent of the IEEE Neural Networks Council to serve the community's best interests and we want to know how we can improve.

Sincerely,

Russell C. Eberhart, President
IEEE Neural Networks Council
Research Triangle Institute
Biomedical Engineering
P.O. Box 12194
Research Triangle Park, NC 27709
E-mail: rce@rti.rti.org

Patrick K. Simpson, Vice Pres.
IEEE Neural Networks Council
ORINCON Corporation
9363 Towne Centre Drive
San Diego, CA 92121
E-mail: xm8@sdcc12.ucsd.edu

Notes taken by Russ Eberhart at the
TAB WORKSHOP ON FINANCIAL AND CONFERENCE PLANNING
New Brunswick, NJ, Jan. 24-25, 1992

(I am distributing these notes to NNC AdCom members, hoping that they might prove useful to some of you in understanding the structure and functioning of the IEEE. I originally intended them only for my own use, so you may find them a little disjointed.)

Friday, Jan. 24

I arrived at about 3:00 p.m., and attended the last session of the day, related to Societies and the TAB Finance Committee, chaired by Bob Begun. Roy Nutter, NNC Treasurer, was already there, having attended the entire day. (I was at the workshop to attend the sessions on Saturday, but decided to attend the Friday session anyway.)

A change in the way funds are distributed was discussed. The maximum effect on a Society/Council (S/C) will be \$8-9K, either plus or minus. I should receive information prior to the NNC AdCom meeting in San Diego. Roy Nutter left at the end of Begun's presentation.

Saturday, Jan. 25

Technical Activities Governance Meeting

Irv Engelson, Director of Technical Activities, introduced Fernando Aldana, Vice President of TAB. Dr. Aldana pointed out that although the societies are the heart of the IEEE, TAB plays a very important role in the function of the IEEE. One of the purposes of the Governance Meeting is to point out the value added by TAB to the IEEE. Another purpose is to outline specific issues that TAB will be addressing this year. (Too often, new S/C Presidents learn what TAB really does only near the end of their term!)

The next presentation was made by Eric Herz, IEEE General Manager and Executive Director. He presented a general overview of the IEEE. The IEEE now has about 320,400 members in about 280 sections. He pointed out that IEEE is a personal membership organization only, i.e., companies and other organizations cannot belong. This makes IEEE the largest professional society in the world, with members in more than 130 countries. It is IEEE's goal to be as international as possible.

The first Society was the Audio Society, founded in 1948. Of the IEEE members, about 68 percent are Members, 8 percent Senior Members and 1 percent Fellows; these 77 percent are voting members. The 23 percent non-voting members are Student Members (15%) and Associate Members (8%).

Major IEEE concerns include:

- * Global technology information exchange

- * Leadership in technical coverage
- * Globally-balanced membership and activities
- * Full professional life

Tom Bartlett, Associate General Manager of IEEE presented a summary of finances. He discussed the problem with the General Operating Reserves, and urged S/Cs to increase their reserves.

John Powers, Associate General Manager of IEEE for Volunteer Services, discussed the structure and services offered through the Volunteer Services organization. He focused on activities outside Technical Activities (since the focus of the meeting was TA). He reviewed regional activities, headed by Mel Olken, Staff Director of Field Services; Educational Activities, headed by Rudy Stampfl, Staff Director; and, Professional Activities, headed by Leo Fanning, Staff Director. (In Educational Activities, NNC is working with Peter Wiesner on video taping of tutorials. His phone is 908-562-5500.)

Fernando Aldana presented an overview of TAB. Relevant to the NNC, the Society Presidents' Forum meets prior to TAB, and brings action items to the full TAB. Voting members of TAB include the Chair, 4 Vice Chairs, 37 S/C Presidents (including the NNC President), 10 Division Directors and a Treasurer. Non-voting members include the Past Chair, the Strategic Planning and Review Committee Chair, the Nominations and Appointments Committee Chair, and the Secretary. A TAB Structure Review has just been completed that will recommend ways to streamline operations and decrease costs.

Leonard Carlson spoke on the TAB Liaison Council. The Council serves as a policy coordinating body. The Council facilitates coordination of TAB policy with other IEEE and non-IEEE entities in order to optimize opportunities for achieving mutual goals. There are 12 voting members and one non-voting member. It maintains an inventory data base of non-IEEE entities. A goal assigned to the council for 1991 was to develop effective methods for informing members, industry, government and the public about the technical activities of the IEEE. Public relations resources and sets of slides have been developed to meet this goal. Another goal was to enhance TAB relationships with IEEE entities. This is an ongoing activity. Three areas have been identified and are being worked on. One area is the need to better integrate separate operations in closely related activities. 1992 goals include the assessing of the multiplicity of conferences, increasing participation of S/Cs in standards activities, and increasing IEEE influence on major technological issues of our time.

Dov Jaron then presented a summary of the TAB Technical Meetings Council. The Council is responsible for overseeing all technical meetings activities involving TAB and its entities. The Council recommends technical meetings policy to TAB; monitors compliance with IEEE policies and procedures; and maintains oversight responsibility for

the IEEE Technical Activities Guide (TAG) and responsibility for the IEEE Conference Manual. Also, they review Conference Service activities, and develop mechanisms to help Societies run technically and financially successful conferences (such as the IEEE conference registration software). A new IEEE Conference Manual will be available in about a month, and it will be in both electronic and printed forms. The Technical Activities Guide (TAG) will also be available in electronic form soon.

Dov Jaron and Eric Herz both emphasized that all conference surplus must be transferred to IEEE and a financial report submitted, closing the conference's books no later than six months following the close of the conference. Lack of adherence to this requirement directly threatens the tax-exempt status of the IEEE. (Note the relevance of this item to all IJCNNs.)

Pete Morley summarized the activities of the TAB Periodicals Council. The role of the TAB Periodicals Council is to advise the Technical Activities and Publications (PUB) Boards on all matters pertaining to S/C periodicals --- including Transactions, Magazines and Newsletters. This Council focuses on issues concerning publication of these periodicals. This includes the following tasks:

- * review proposals for new S/C periodicals;
- * monitoring and periodic assessment of the quality, financial viability and on-time publication of S/C periodicals;
- * arbitration of disputes among the TAB entities concerning overlapping fields of interest of their respective periodicals;
- * policy formulation;
- * liaison with other IEEE entities concerning publication matters; and
- * other responsibilities assigned by TAB and PUB.

The Council consists of 12 voting and several non-voting members. Voting members include the Chairman, Past Chairman and one representative of each of the ten IEEE Divisions.

Friedolf Smits discussed the activities of the TAB Publications Products Council. The Council is responsible for oversight of TAB publications products including recommending publication and marketing policy to TAB, long range planning, reviewing budgets and marketing plans prepared by staff, and monitoring compliance with IEEE policies and procedures. In general, publications products are understood to be marketable products created through repackaging and/or marketing of existing materials produced by Societies in the course of their normal activities. Publications products may also include summaries, abstracts, and indices of such materials, as well as tutorial and video products produced on behalf of all Societies. The objective of the Council is to identify and stimulate generation of publication products which meet the needs of members and/or the profession at large while generating appropriate revenue from the sale of such products on behalf of TAB and its entities. The NNC is working with this council in a number of areas, including video tutorials and the CD ROM version of our conference

proceedings.

Bob Begun, TAB Treasurer, reviewed TAB financial matters. The Finance Committee has 10 voting members: the Committee Chair, Past Chair, four Council Representatives and four members-at-large. In an attempt to reduce expenses, a TAB restructuring Ad Hoc Committee is recommending a number of actions, including a reduction in number of committees and a reduction in the number of members of committees. The periodicals magazine subsidy of \$250K in 1992 was discussed. It was pointed out that no subsidy is available for publications produced outside of the IEEE. Starting January 1, 1992, we will be charged for some services that we previously got for free, including S/C meeting assistance and elections. (NNC AdCom members need to be aware of this. It's a good idea to ask when requesting a service from IEEE Headquarters whether the service is free, or if NNC will be charged.)

Laura Jobmann reviewed the TAB Administrative Services. Key functions include meeting site selection (hotel negotiations), TAB, Council and Committee meetings, administration, interfacing among boards/committees and staff departments, information/communication such as Newsbriefs, and maintaining archives.

Marsha Tickman discussed the area of Society General Activities, which she manages. Society General Activities provides general administrative support to IEEE Societies and Technical Councils. Included are awards, committee records, archiving of constitutions and bylaws, special mailings and promotions, stationery, and statistics & reports.

Agreement

between the

IEEE Neural Networks Council

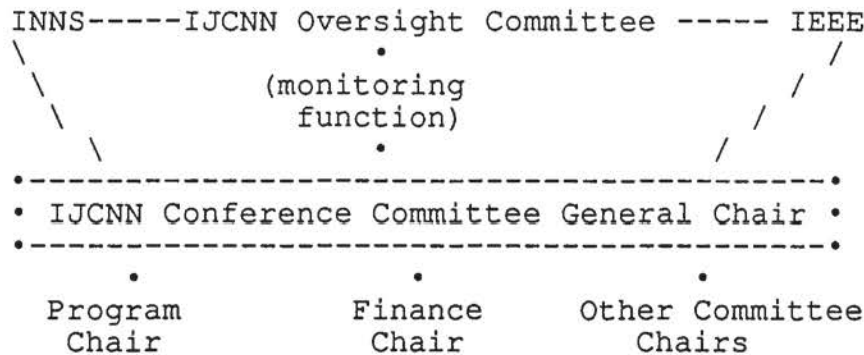
and the

International Neural Network Society

In the interest of promoting research, development and education in the area of Neural Networks, the IEEE Neural Networks Council (NNC) and the International Neural Network Society (INNS) agree to jointly sponsor international meetings, known hereafter as the *International Joint Conferences on Neural Networks (IJCNN)* equally sharing the risk and the surplus of the conferences.

- 1) This document becomes effective upon signature of the Presidents of the two organizations and supersedes the agreement of 11/29/88.
- 2) Each conference shall be titled the International Joint Conference on Neural Networks (IJCNN).
- 3) Primary responsibility for operation of each conference shall alternate between the two organizations. The organization with responsibility for a particular conference shall be known as the "lead society."
- 4) The lead society shall appoint the General Chair with the advice and consent of the President of the other organization. The lead society guarantees the other society complete access to the financial records of the Conference at any time.
- 5) Both organizations may organize and operate membership booths in conjunction with registration. Organization publications may be sold at these booths.
- 6) At the meeting sight, Proceedings of the joint conferences will be sold to members of either organization at the member's rate. The conference committee should establish a mechanism for post-conference sales. The lead society will be responsible for post conference sales of proceedings.
- 7) Copyrights to the conference proceedings will be controlled by and at the discretion of the lead society.
- 8) Exhibits are encouraged as an integral part of the conferences. The conference committee (defined in paragraph 15 below) will be responsible for establishing an exhibits program in coordination with members of the vendor community.
- 9) Speakers (except for tutorial speakers) are not compensated for their presentations. Plenary speakers will normally have their travel expenses paid. In addition, the General Chair(s), the Program Chair(s), and the Finance Chair(s) can have their travel expenses paid. The Conference Committee will set specific arrangements in accordance with the policies of both INNS and IEEE. Compensation for tutorial speakers shall be consistent with the policies of IEEE and INNS. Invited speakers may have their travel expenses paid. The number of invited speakers who have their expenses paid should in no case exceed 1% of the best estimate of the number of conference registrations. All other expenses reimbursements are excluded unless specifically covered by a line item in the approved conference budget. Registration fees for keynote and plenary speakers are waived. Registration fees for all persons whose travel expenses are reimbursed by the conference will be at the student rate.
- 10) Registration fees will be determined by the conference committee and submitted to the sponsoring organizations as part of the conference budget. Significant fluctuations in fees for contiguous meetings are discouraged. The conference registration fees for members of the sponsoring societies will be set less than for other attendees.

- 11) All expenses associated with the conference will be included in the conference budget which must be approved by both organizations. It is the responsibility of the conference committee to enforce adherence to the budget.
- 12) A preliminary budget will be submitted by the lead society to the Oversight Committee (as defined in paragraph 13 below) and the other organization approximately two years in advance beginning with the 1992 meetings. An operating budget will be similarly submitted approximately one year in advance. It must be approved, disapproved, or approved with modifications, within 90 days after receipt, or it is approved as submitted.
- 13) There shall be an Oversight Committee (hereinafter referred to as "IOC") consisting of not more than 5 people, appointed by the IEEE NNC, and not more than 5 people appointed by the INNS Governing Board. The President of the IEEE Neural Networks Council and the President of the International Neural Networks Society will serve as ex officio members of the IOC. No IOC member will serve on the organizing committee (defined in paragraph 15 below). The IJCNN Oversight Committee shall serve to ensure adherence to this Agreement and to mediate any disagreements in accordance with the IOC By-Laws. If a disagreement cannot be resolved by the IOC, the matter will be referred to the NNC and the INNS Governing Board. The following diagram specifies the organizational structure:



- 14) This agreement can be canceled upon written notification of either organization to the President of the other organization. The President of the INNS and the President of the NNC shall have the responsibility of settling any unfinished business already initiated as a result of this document. In the event of dissolution, each society shall honor its previously approved budgets. Upon cancellation, both organizations agree to not use the conference name "International Joint Conference on Neural Networks" or the initials "IJCNN." The NNC reserves the exclusive right to use the conference name "International Conference on Neural Networks". The INNS reserves the exclusive right to use the conference name "INNS Annual Meeting." Both organizations will refrain from sponsoring other major activities in the field of artificial neural networks within one month of each IJCNN. Both Societies must agree to cooperate on involvement in any major neural network conference activities held within 30 days of an IJCNN. Both organizations will share equally in any conference surplus. If a conference loses money, both organizations will equally share in the cost.
- 15) The IJCNN Conference Organizing Committee (herein referred to as "Organizing Committee" or "Conference Committee") shall consist of at least a General Chair, a Program Chair, and a Finance Chair, all of which chairs are chosen by the lead society, with the General Chair to be selected with the advice and consent of the President of the other participating Society. The General Chair has primary responsibility for all aspects of the meeting and is accountable to the lead society (AdCom of the NNC; Executive Committee of the INNS) with respect to the discharge of that responsibility. It is the responsibility of the President of the lead

society to ensure that the General Chair is made aware of all relevant guidelines for the conference, including financial reimbursements. The General Chair shall appoint, may dismiss and is ultimately responsible for the duties of the other members of the Organizing Committee. The Program Chair is responsible for the technical program, including preparation of the Call for Papers, speaker invitations, review/referee procedures, session organization, etc., subject to IOC guidelines. This person should assemble and preside over the Program Committee. The Finance Chair is responsible for all of the financial aspects of the meeting including approving expenditures, seeing that the correct financial records are maintained, seeing that the approved registration fees are charged, preparing the final report, etc.. The primary aim of the Finance Chair should be to stay within the approved budget: note that the approved budget may not be the same as that submitted, since the sponsors might request changes. The General Chair may appoint other chairs as required, and will in all matters follow the guidelines contained in the latest version of the IEEE Conference Organization Manual. The President of the NNC shall appoint one representative to the IJCNN organizing committee for those conferences in which the INNS is the lead society. The INNS President shall appoint one representative to the IJCNN organizing committee for those conferences in which the NNC is the lead society.

- 16) A preliminary internal audit will be presented to the IOC and both organizations not more than 90 days after the close of the conference. A final audit and financial report is due 180 days after the close of the conference. Copies of this audit are to be presented to the IOC and the organizations. If there is a surplus, it shall be distributed evenly between the two organizations by the conference finance chair. Either organization can order an external audit of the conference by a nationally prominent accounting firm. In such cases, the audit cost will be paid from any conference surplus.
- 17) There will be at least four signatories on all bank, checking, or other financial accounts for each conference. These shall include the Finance Chair, the General Chair, the President of the INNS, and a financial staff person from IEEE Headquarters. Any one signature will be sufficient to authorize checks of \$10,000 or less. Any two signatures will be required for amounts greater than \$10,000.
- 18) Policies of both IEEE and INNS with regard to running of conferences will be adhered to.

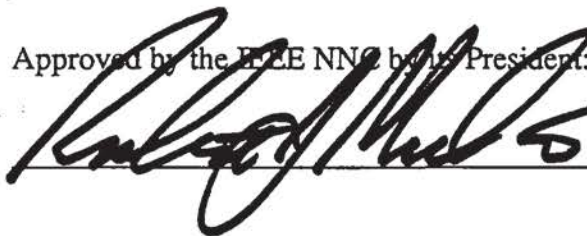


This document was discussed and jointly prepared by the members of the IJCNN Oversight Committee on 25 November, 1989, 15 January, 1990 and 18 June 1990.

Approved by the INNS by its President:

_____ Date: _____

Approved by the IEEE NNC by its President:

 _____ Date: 1/31/91



By-Laws for the IOC

The "agreement between the IEEE Neural Network Council and the International Neural Network Society" will be hereafter referred to as the Agreement. These By-Laws are by-laws for the Agreement. Amendments to these By-Laws must be approved by the IOC and both Societies.

Article I

Rules of Order

Section 1. In all matters not covered by the Agreement and By-Laws, the IOC shall be governed by the latest edition of Robert's Rules of Order.

Article II

Management and Officers

Section 1. The officers of the IOC shall be the IOC Chair and Chair Elect. The officers shall serve for two calendar years, one year as Chair elect and one year as Chair. The IOC will be Chaired in odd years by an NNC appointee to the IOC and will be Chaired in even years by an INNS appointee. Both Officers will be appointed by the Society which they represent.

Section 2. If an officer must be absent from a meeting, he/she will designate a temporary pro tem replacement who is a representative of the same Society. The replacement must be an IOC member.

Section 3. If an IOC member will be absent from an IOC meeting, the member's society may appoint an alternate and inform the IOC officers in writing at least two weeks in advance of the meeting.

Article III

IOC Meetings

Section 1. The Chair shall announce to the members of the IOC all meetings of the IOC at least twenty days in advance of the meeting or by first class mail at least twenty-five days in advance of the meeting.

Section 2. The Chair Elect shall be responsible for the minutes and attendance list of IOC meetings.

Section 3. Meetings of the IOC may be cancelled only by consent of a majority of all the members of the IOC not less than fourteen days before the original date or the new date set for the meeting, whichever is earlier. Notice of such cancellation or changed date shall be given to all IOC members by mail not less than ten days before the original or the new date, whichever is earlier.

Section 4. Unless otherwise specified, all motions placed before the IOC must be approved by a majority vote of the NNC appointees to the IOC and a separate majority vote of the INNS appointees to the IOC. If either the NNC or INNS vote does not receive a majority vote of their respective IOC appointees, the motion is defeated.

Article IV

IOC Responsibilities

Section 1. The IOC shall recommend the times and locations of IJCNN conferences.

Section 2. The IOC shall have the power to establish procedures whereby proposals from potential conference locations can be considered.

Section 3. The IOC shall oversee all IJCNNs in order to assure adherence to the policies and procedures of the organization which they represent. This includes, but is not limited to, assuring that audits are performed on conferences that are acceptable to both Societies.

Section 4. The IOC shall have the power to present to the Societies proposals for other IJCNNs. This includes proposals for participation of other organizations as IJCNN sponsors and their corresponding program and financial commitments. With exception to the conferences cited in Section 1, no conference will be called The International Joint Conference on Neural Networks or use the initials IJCNN, without the approval of both Societies.

Section 5. The IOC may bring before the Societies any recommendation for action not covered in the Agreement or By-Laws. Any deviation from this agreement must be approved by both Societies.

Article V

Society Responsibilities

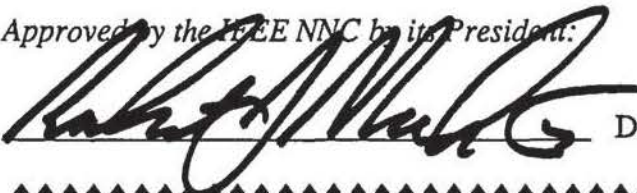
Section 1. The IOC shall be governed in accordance to the Constitution and Bylaws of the Institute of Electrical and Electronics Engineers (IEEE), the Constitution, Bylaws and the Charter of the IEEE Neural Networks Council (NNC) and the Bylaws of the International Neural Networks Society (INNS).



Approved by the INNS by its President:

_____ Date: _____

Approved by the IEEE NNC by its President:

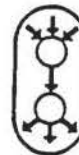
 _____ Date: 1/31/91





IEEE

COUNCIL ON NEURAL NETWORKS



5

Robert J. Marks II
President

2-4-91

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director
Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Dr. Werbos,

I have been directed by the AdCom of the *IEEE Neural Networks Council (NNC)* to announce to you cancellation of the Agreement between the Council and the *International Neural Network Society (INNS)* immediately after the 1992 Baltimore IJCNN. I hereby do so. This cancellation is made in accordance with Article 14 of the Agreement between our two organizations which states, in part,

This agreement can be canceled upon written notification of either organization to the President of the other organization. The President of the INNS and the President of the NNC shall have the responsibility of settling any unfinished business already initiated as a result of this document. In the event of dissolution, each society shall honor its previously approved budgets. Upon cancellation, both organizations agree to not use the conference name "International Joint Conference on Neural Networks" or the initials "IJCNN." The NNC reserves the exclusive right to use the conference name "International Conference on Neural Networks". The INNS reserves the exclusive right to use the conference name "INNS Annual Meeting."

The IJCNN's, as you know, are currently the largest and most successful conferences on neural networks in the world. Nevertheless, the Council feels that due, in part, to our broadening focus of interests, a dissolution of the Agreement is required. This dissolution, however, still leaves open the possibility that the NNC and INNS can work together on other projects, including future jointly sponsored IJCNN's.

I will be contacting you shortly to arrange procedures for the settling of unfinished business already initiated as a result of the Agreement. The Council intends to remain flexible in the process of these negotiations.

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: IEEE NNC AdCom
Laura Jobmann, IEEE Conference Services

IEEE NNC Meetings Committee
Roy S. Nutter, IOC Chair

Dissolution Agreement

Whereas the societies named the IEEE Neural Networks Council (NNC) and the International Neural Networks Society (INNS) have entered into an Agreement concerning the joint sponsoring of the International Joint Conferences on Neural Networks series and, whereas, the NNC has chosen to dissolve that Agreement, and, whereas, the Presidents of the INNS and the NNC have been empowered by their organizations to resolve all unfinished business initiated as a result of the Agreement, the NNC and INNS do hereby agree as follows:

1. The Agreement (including Bylaws) will remain in effect through May 1, 1994, except as specifically amended by this Dissolution Agreement. This Dissolution Agreement is binding on both societies and may be altered only in writing with authorized joint signatures by both the President of INNS and the President of the NNC.

2. The following schedule of jointly sponsored meetings and corresponding Conference Chairs is hereby approved.

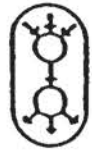
IJCNN Seattle	summer, '91	Prof. D. Rumelhart, Chair
IJCNN Singapore	autumn, '91	Prof. T.S. Low, Chair
IJCNN Baltimore	summer, '92	Prof. C. Lau, Chair
IJCNN Beijing	autumn, '92	Prof. Zong Sha, Chair
IJCNN Portland	summer, '93	Prof. G. Lendaris, Chair
IJCNN Japan	autumn, '93	Prof. S. Amari (Organizing Comm. Chair) Prof. T. Fukuda, (Steering Comm. Chair)

Neither the INNS nor the NNC will be involved, at any level, in any other major conference on artificial neural networks through May 1, 1994. A major conference is any meeting that has an attendance of no more than 400 participants at the conference sight. Commitments of involvement with major conferences by either Society made prior to February 1, 1991 are specifically excluded if the commitment(s) were made in accordance with the Agreement.

3. The NNC and INNS will share equally from the surplus from all IJCNN's and will equally share in the payment of any deficit originating from an IJCNN. No portion of the surplus will be set aside by either the NNC or the INNS as seed money for future conferences. If seed money has been deducted from the shared surplus of an earlier conference, the amount will be treated as a credit at the next conference.


Robert J. Marks II, President, IEEE Neural Networks Council


Paul J. Werbos, President, International Neural Networks Society



NEURAL NETWORKS COUNCIL

Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.ti.org

February 20, 1992

Mr. Morgan Downey
International Neural Network Society
1250 24th Street, N.W., Suite 600
Washington, DC 20037

Dear Mr. Downey:

I have received your letter dated February 11, 1992, relative to the Beijing conference budget. According to the terms of the Agreement between the IEEE and the INNS, the budget was to have been submitted to the IEEE some time ago. I cannot give you a favorable or negative response by February 21, 1992, the deadline you stated in your letter.

Very truly yours,

Russell C. Eberhart
Russell C. Eberhart

INTERNATIONAL NEURAL NETWORK SOCIETY

1250 24th Street, N.W.
Suite 600
Washington, DC 20037
Telephone: (202) INN-INNS
Fax: (202) 466-3079

OFFICERS:

President
Paul Werbos
National Science Foundation

Vice President
Judith Dayhoff
University of Maryland

Secretary
James Anderson
Brown University

Treasurer
Harold Szu
Naval Surface Warfare Center

BOARD OF GOVERNORS:

Shun-ichi Amari
University of Tokyo

Richard Andersen
Massachusetts Institute of Technology

Gail Carpenter
Boston University

Leon Cooper
Brown University

Freeman
University of California

Kunihiko Fukushima
Osaka University

Lee Giles
NEC Research Institute

Stephen Grossberg
Boston University

Morris Hirsch
University of California

Christof Koch
California Institute of Technology

Bart Kosko
University of Southern California

Christoph von der Malsburg
University of Southern California

Demetri Psaltis
California Institute of Technology

David Rumelhart
Stanford University

Terrence Sejnowski
Salk Institute for Biological Studies

Bernard Widrow
Stanford University

February 11, 1992

Russell C. Eberhart
Director of Biomedical Engineering
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709-2194

Dear Russ:

At its recent meeting, the Board of Governors reviewed the enclosed revised budget for the Beijing IJCNN. As you can see, the revised budget anticipates a financial loss of \$20,700. Under the terms of the agreement between INNS and IEEE each society will be responsible for half of this loss. Naturally, we will try to increase income and reduce expenditures in order to minimize any loss.

Because this conference presents the prospect of a financial loss, I would request written confirmation of IEEE's approval of this budget acknowledgement of its responsibility for one half of any loss. Since time is of the essence, I must have a favorable or negative response by February 21, 1992 if we are to move forward with the conference in Beijing.

Sincerely,



Morgan Downey
Executive Director

Enclosure

EXECUTIVE OFFICE:

Executive Director
Morgan Downey
General Counsel
Lawrence S. Hoffheimer

MEMBERSHIP OFFICE

P.O. Box 491166
Fort Washington, MD 20744
(301) 839-2114

AGENDA #5

IJCNN BEIJING '92 REVISED BUDGET

INCOME

Assume 200 Attendees

Registration Income

Early	Member	100X\$340	34,000.00	
	Non-Member	80X\$390	31,200.00	
	Student	10X\$135	1,350.00	
Late/ On Site	Member	4X\$375	1,500.00	
	Non-Member	6X\$425	2,550.00	
	Student			
			<hr/>	70,600.00

Exhibits/Sponsorship

6,000.00

Other Income

Seed Money	50,000.00	
Tutorial Fees	<u>10,000.00</u>	60,000.00

TOTAL INCOME

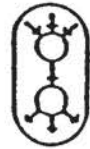
136,600.00

EXPENSES

Fee to CNNC	200 @\$140	28,000.00	
<u>Promotion</u>			
Call for Papers		12,000.00	
Mailings lists/labels		3,500.00	
Postage		<u>15,000.00</u>	
		30,500.00	
Author Kits Printing		1,000.00	
<u>Exhibits</u>			
Printing Brochure/Program		4,000.00	
<u>Administration</u>			
Abstracts		5,800.00	
Registration		1,600.00	
Insurance		5,000.00	
Telephone		2,000.00	
Management		<u>14,400.00</u>	
		28,800.00	
<u>Other</u>			
Bank Fees		500.00	
Credit Card Fee		1,000.00	
Auditor		7,500.00	
Refunds		<u>3,000.00</u>	
		12,000.00	
Plenary Speakers		23,360.00	
Tutorial Speakers		17,640.00	
Tutorial Coffee		2,000.00	
Tutorial Proceedings		10,000.00	
Seed Money Repayment		<u>50,000.00</u>	
		103,000.00	
Total Expenses			157,300.00
Total Income			136,600.00
Estimated Net Surplus/Loss			(20,700.00)



NEURAL NETWORKS COUNCIL



Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

February 11, 1992

Prof. Sha Zong
Vice President and Secretary General
Chinese Neural Network Society
Chinese Institute of Electronics
Nongzhanguan Nanlu No. 12, Room 2310
Beijing 100026, China

Dear Prof. Sha,

I received your fax dated February 10, 1992. The INNS does not have the right to move the Beijing IJCNN at all. They cannot move it to another city. They cannot even move it to a hotel that you don't approve of inside Beijing. If they do move it, it is in violation of the agreement between IEEE and INNS, and the IEEE will terminate the agreement.

If the INNS moves a conference to Hong Kong, they cannot call it an IJCNN. And if they do move it to Hong Kong, the IEEE NNC and IEEE Beijing Section can and will co-sponsor an IEEE International Conference on Neural Networks, Beijing, China, organized by the CNNC.

The fact that you already have 400 papers reviewed and accepted is a very good sign. We are assured of a successful conference. I have reviewed the situation with the NNC Executive Committee, and we of the IEEE NNC are still behind you one hundred percent. We will continue to support you in every way possible. You are in charge, and we will back you!

We look forward to a successful Beijing conference.

Sincerely,

Russell C. Eberhart

Feb. 10, 1992

Att: Dr. Russell C. Eberhart
Director
Biomedical Engineering Program
RESEARCH TRIANGLE INSTITUTE

Dear Dr. Eberhart,

We have stated our attitude about the IJCNN'92-Beijing to Mr. Downey one month ago, but we have received no response from him till now. Do you know any news from INNS recently about IJCNN'-Beijing? And I have the followings to consult with you now:

1. Does INNS, the leading society, have the right to move the IJCNN to any other place outside China? If they do so, is it in violation to the agreement between IEEE NNC and INNS? If it is in violation the agreement, what will IEEE NNC do?

2. I just learned from China World Hotel that Mr. Downey is trying to move the conference to Hong Kong. If this will be true, can we sponsor a conference named IEEE INTERNATIONAL CONFERENCE ON NEURAL NETWORKS, BEIJING CHINA co-sponsored by IEEE NNC and IEEE Beijing Section and organized by the CNNC. Or what idea do you have?

3. 400 papers from China have already reviewed and accepted for the IJCNN. The reaction from our side is very positive. What can we do with this 400 papers if the IJCNN will be cancelled.

I am looking forward to hearing from you soon.

with best regards
yours sincerely
Zong Sha
vice-president and secretary general
CNNC



CHINESE INSTITUTE OF ELECTRONICS
Nongzhangnan Nanlu No. 12, Room 2310,
Beijing 100026, China
Tel: 6001144 Ext. 2310
Telex: 210431 CIE CN.



Enclosure

Minutes of the ExCom meeting of the IEEE Neural Networks Council
January 18, 1992, Research Triangle Institute in North Carolina

Attendees: Russ Eberhart, President
Pat Simpson, Vice-President
Roy Nutter, Treasurer
Bob Marks, Past President

Agenda

Approval of Agenda
Approval of Minutes
Singapore Minutes
Conference Call Meeting

Meetings

Seattle IJCNN	Marks
Singapore Conference	Marks
Beijing Conference	Nutter
INNS Relationship	Eberhart
Rostov-on-Don	Eberhart
DC Sheraton Contract	Marks
Nomi's Contract	Marks
FUZZ-IEEE 92	Simpson
FUZZ-IEEE 93	Simpson
World Congress 94	Simpson
1995 meetings	Bezdek
Virtual Reality Conf	Marks
Meeting Proposals	Marks
Inverse Forum	Marks
SP & ENNS	Marks
Meeting Cooperation	Marks
CD ROM	Marks

Publications

Transactions on Genetic	Eberhart
Transactions on VR	Marks
Newsletter	

Awards

Zadeh	Marks
Fuzz Awards	Marks
NN Awards	Marks

Old Business

RIG's	Marks
Equipment & Deprec	Simpson

New Business

Fuzzy Tapes
Equipment
Society Name

Adjourn

APPROVAL OF MINUTES

Singapore:

Nutter distributed a draft of the Singapore minutes and solicited corrections. A final draft will be submitted for approval for the next ExCom.

Conference Call:

The minutes of the conference call of the ExCom (attachment A) were approved after insertion of the date (December 27, 1991).

MEETINGS

Seattle:

Background: Marks recently talked to Lendaris, the Finance Chair of the Seattle IJCNN. The surplus is about \$120,000. The INNS office currently has the check, and has promised to return the money to Lendaris for disbursement. The disbursement and final audit are overdue. Eberhart stated this is in clear violation of the NNC/INNS Agreement. He sent a letter to INNS President, Werbos, saying so (Attachment B)

Beijing:

Background: Nutter met with INNS Executive Director, Downey, in Singapore. The minutes of this meeting are in Attachment C. An Agreement resulting from this meeting is in Attachment D. Eberhart drafted a letter of concern to Marks (Attachment E) concerning Beijing Agreement and the handling of the conference by INNS. Supporting documents include a letter to Dr. Zong Sha, conference chair, from Downey (Attachment E1) stating that he was upset at Sha's choice of hotels, a letter from Sha to Eberhart (Attachment E2) expressing concern over the INNS's dealing with the conference, and two letters from Dr. Amari (Attachments E3 and E4) supporting the local organizer's rights to organize the conference locally. Eberhart's letter to Werbos, requesting return of the control of the conference to the locals, is in Attachment F. Downey's response is in Attachment G. A Beijing call for papers, okayed by Sha, is in Attachment H.

INNS Relationship:

Motion: Due to the violation of written agreements between the INNS and the IEEE Neural Networks Council, the Executive Committee of the IEEE Neural Networks Council endorses immediate termination of all activities with the INNS. (Moved by Marks & seconded by Nutter; approved by

acclamation).

Rostov-on-Don:

Action: Kaplan & Snyder are to prepare a budget for Rostov-on-Don for the AdCom in San Diego. The NSF contact will be followed through for support.

Resolved: The ExCom endorses Council support of Snyder and a Council officer to attend the Conference. Approved by acclamation.

DC Sheraton contract:

Background: We owe the DC Sheraton a meeting.

Discussion: If the agreement between the NNC & INNS is dissolved, a 1993 meeting should be held on one of the coasts. A DC meeting is a good idea. Otherwise, the 95 ICNN could be held there. Resolution will be at AdCom.

Nomi's Contract:

Peri Sensi at IEEE has reviewed the contract submitted by Ms. Nomi Feldman. He had no objection.

Action: Deferred to Meetings Committee (Bezdek)

World Congress 94:

Background: There is no Congress Chair. Charlie Robinson has been approached and said he will know by AdCom in San Diego. Bonisoni is the Chair apparant for FUZZ-IEEE 94. There is no current ICNN Chair. Steve Rogers was recommended.

Action: Simpson will coordintate the contacting of Rogers with Bezdek. Eberhart will contact Grefenstette to see if they want a 94 Genetic meeting. Eberhart will follow up with Robinson.

1995 Meetings:

Action: Refer to Meetings Committee (Bezdek)

FUZZ-IEEE 92:

Background: Marks, as President in 1991, authorized 10k for a second mailing of FUZZ-IEEE 92 publicity. The publicity has been mailed. Nomi has not received the money.

Action: Nutter will call Nomi and tell her that this issue slipped between the cracks. He will offer to wire the funds to the account for her to use.

FUZZ-IEEE 93:

Discussion: Simpson said Ruspini needs seed money.

Action: Refer to Meetings Committee (Bezdek). Recommend budget be brought to AdCom in San Diego by Meetings Committee.

Resolution: 10k of seed money be credited to the FUZZ-IEEE 93 meeting for the purpose of meeting publicity. Approved by acclamation.

Virtual Reality Conference:

Resolved: The ExCom endorses the concept of a 1993 virtual reality

conference. Approved by acclamation.

Action: Marks will work with Caudell & Furness to bring a budget to AdCom.

Meeting Proposals:

Background: Marks reported a large number of people want to host Council meetings.

Action: Simpson will work with Bezdek to formalize procedures for submitting proposals. Marks has CAS & SP meetings documents he will supply to them.

Inverse Forum:

Resolved: The seed money for the forum is to be reduced to \$2500. By acclamation.

Action: Nutter will write Ishimaru to tell him. Ask for camera ready publicity to be sent to newsletter & transactions. Encourage seeking publicity from IEEE Geoscience & Remote Sensing Society.

SP & ENNS:

Background: ENNS may approach other IEEE Societies to get the IEEE logo on their conferences.

Action: Eberhart will make visible ENNS activities at TAB.

Meeting Cooperation:

Background: A number of requests have been submitted to the Council requesting Council cooperation. Simpson says that a number of Council logos & names are being Trademarked.

Action: Refer to the meetings committee.

CD ROM:

Report: Marks has delegated the Council's CD-ROM activities to the capable hands of Stamios Kartalopoulos.

PUBLICATIONS

Trans on Genetic Algorithms:

Action: Simpson will talk to Fogel. Grefenstette will be talked to by Marks and Eberhart.

Trans on VR:

Idea: Special issue of intelligent systems to VR is a possibility.

Action: Marks will talk with Caudell & Furness about this.

Newsletter

Background: ExCom okayed increasing the pages of the issue. If this is to be permanent, it needs to be okayed by AdCom. Simpson suggested regular columns in the newsletters. Marks suggested listings of recent patent abstracts. Nutter suggested that the Editor monitor the

electronic newsletters & bulliten board on nn's, fuzz and genetics.
Action: Eberhart will tell Snyder that a permanent page increase of the newsletter needs to be okayed by Pub Committee and AdCom.

AWARDS

Zadeh:

Background: Lotfi Zadeh has been awarded the IEEE Hamming Medal. Marks suggested special recognition at FUZZ-IEEE 92.

Action: Eberhart will coordinate with Bezdek and Dickinson recognition of the award at FUZZ-IEEE.

Fellows:

Action: Eberhart will coordinate with Dickinson contacting of recent IEEE Fellows, and ask where they would like have their accomplishment recognized.

Fuzz Awards:

Background: Dr. Yeh at Texas A&M approached Marks about establishing fuzzy awards. Marks has placed Dickinson & Yeh together.

NN Awards

Background: There needs to be publicity on the Awards.

Action: ExCom members will spread the word. Eberhart will contact Dickinson on this. Simpson volunteered to place an ad on electronic newsletter if given copy.

OLD BUSINESS

Regional Interest Groups:

Background: A number of researchers are interested in establishing RIG's.

Action: Marks will craft a motion for presentation to AdCom for establishing Regional Interest Groups. Russ will send a letter a letter to Nutter authorizing 1k for the Phoenix RIG.

Equipment & Depreciation:

Simpson: Simpson suggests a list be maintained by the Treasurer of Council equipment.

Action: Eberhart will place the depreciation schedule in the Singapore minutes before ExCom for approval.

NEW BUSINESS

Tapes:

(Attachment F)

Resolved: The Council encourages STUDIO taping of up to five of the tutorials at FUZZ-IEEE 92.

Action: Marks will inform El-Sharkawi

Meeting adjourned at 4:35 local time by President Eberhart.

Gleefully Submitted

R. J. Marks II

A handwritten signature in black ink, appearing to read 'RJM II', is written below the typed name.

A

Minutes of the Executive Committee Meeting
Conference Call

Meeting called to order 2:10⁴pm Seattle time by R.J. Marks II,
Present: Eberhart, Simpson, Marks, Nutter, Engelson, Fukuda

The Approval of Singapore ExCom minutes were waived. They have not yet been completed.

The meeting was adjourned to executive session.

The meeting was placed back in open forum.

Motion by Eberhart, Second by Simpson, to hold an NNC AdCom meeting on Sunday, January 26, 1992 at the Sheraton Imperial Hotel at the Rayleigh-Durham Airport in North Carolina. Motion passed. (Note: This meeting was subsequently canceled by consensus of ExCom)

FUZZ-IEEE in San Diego was discussed. ExCom confirmed the importance of coordinating the meeting with the San Diego local section.

Seattle IJCNN; Simpson voiced concern over the preliminary audit submitted by Lendaris. Lendaris entered the conference at a difficult time and, considering, has probably done an admiral job, said Simpson. Simpson questioned whether Lendaris had been told of all the background. The audit categories did not match that of the budget. The question of seed money was not addressed, as INNS promised. A budget addendum requested by INNS but not approved by the NNC was also not addressed. Simpson will give a further report at AdCom.

Meeting adjourned at 3:55 PM, Seattle time, by Bob Marks.

respectfully submitted,

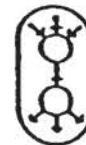
Bob Marks



B



NEURAL NETWORKS COUNCIL



Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

January 8, 1991

Dr. Paul Werbos, President
International Neural Network Society
1250 24th Street, N.W., Suite 600
Washington, DC 20037

Dear Dr. Werbos:

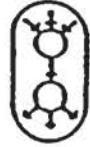
In accordance with the IEEE/INNS Agreement and IEEE Policies, all major conferences must have an audit completed by a major accounting firm and any surplus funds dispersed within six months of the completion of the conference. The Seattle IJCNN ended on July 12, 1991. Please send a copy of the audit and the IEEE share of the surplus funds to the Treasurer of the IEEE Neural Networks Council, Dr. Roy Nutter, by January 12, 1991.

Very truly yours,

Russell C. Eberhart
Russell C. Eberhart



NEURAL NETWORKS COUNCIL



B

Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

January 8, 1991

Dr. Paul Werbos, President
International Neural Network Society
1250 24th Street, N.W., Suite 600
Washington, DC 20037

Dear Dr. Werbos:

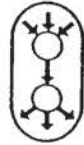
In accordance with the IEEE/INNS Agreement and IEEE Policies, all major conferences must have an audit completed by a major accounting firm and any surplus funds dispersed within six months of the completion of the conference. The Seattle IJCNN ended on July 12, 1991. Please send a copy of the audit and the IEEE share of the surplus funds to the Treasurer of the IEEE Neural Networks Council, Dr. Roy Nutter, by January 12, 1991.

Very truly yours,

Russell C. Eberhart
Russell C. Eberhart



NEURAL NETWORKS COUNCIL



Roy S. Nutter, Jr.
Chair, Meetings Committee

PLEASE REPLY TO:
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506 USA
Tel: (304) 293-6371, ext 23
FAX: (304) 293-5024
e-mail: rsn@a.coe.wvu.wvnet.edu

MEMORANDUM

To: Robert Marks, Chairman
NNC Executive Committee

From: Roy Nutter *Ry Nutter*
IOC Chairman 1991

Subject: IJCNN Beijing
(Discussions held in Singapore)

Date: December 20, 1991

On Tuesday, November 19, 1991, at the IJCNN-Singapore Conference, as Chairman of the INNS/IEEE InterOperating Committee (IOC), I asked Prof. Zong Sha, of the IEEE Beijing Section and Mr. Morgan Downey, Executive Director of INNS, to meet with me to discuss the details of the IJCNN to be held in Beijing, China. The meeting commenced at 1:15 pm with the following people present:

Professor Sha Zong,	IEEE Beijing Section Senior Advisor
Professor. Zhou Mengqi,	IEEE Beijing Section Chief for Intl. Activities
Mr. Morgan Downey,	Executive Director of INNS
Mr. Greg Talley,	Talley Management
Ms. Sylvia C VanLear,	Talley Management
and Myself (Roy Nutter),	IOC Chairman.

1. Mr. Downey reviewed his law firm's relationship with INNS. He noted that the Board of INNS is looking at conferences and internal politics and recommended that Talley Management be hired to work all meetings of INNS.
2. Mr. Talley and Ms. VanLear then described their negotiations with the China World Hotel in Beijing for the IJCNN. They estimated attendance at 800 to 1000 with an additional 200-300 Chinese. (I expressed my concern that this estimate was far too large in my opinion.) They then continued:

RE: Sheraton Great Wall

They noted that the Sheraton Great Wall will be under major renovation next year. It also has only 150 sleeping rooms possible. Poster session would then have to be at the Landmark Hotel. The room rate would be \$55 per night.

3. Professor Sha Zong and Professor Zhou Mengqi then noted that they had also been pursuing additional arrangements for conference accommodations.

RE: China World

INNS had originally proposed this hotel. Professor Sha Zong noted that "this is one of the most expensive hotels in China at \$85 per night." This rate and the lack of walking distance from lower price hotels would prevent the Chinese from participating in the conference.

RE: Traders

This hotel charges \$55 per night.

4. Mr. Talley then continued that they had contacted 21st Century Hotel and were "negotiating" a contract.

RE: 21st Century

This hotel was \$50 per night [for Americans] and was 5 minutes from the Great Wall. It has 500 rooms with 40 conference rooms seating 150 persons each and a theater that seats 1700 people. There are 800 rooms across the street. He noted that INNS had not signed a contract yet so can still change. There are 800 rooms across the street.

5. Professor Sha Zong then noted that the negotiations for a hotel would be better left to the Chinese since the hotels would all inflate their prices when they must work with a foreign group. He felt that the INNS would get a better deal if they would let the Chinese talk to the Chinese hotels. He indicated that the Chinese delegates would be looking for rooms in the \$15-\$20 per night range and would NOT stay nor even be able to attend if such rates were not available. He indicated that only foreign delegates could afford \$50 per night.
6. Discussion then was held concerning who has what meeting responsibilities. It was noted that this is covered in the IOC agreement between INNS and IEEE. It states that "the General Chair has primary responsibility for all aspects of the meeting and is accountable to the lead society (AdCom of the NNC; Executive Committee of the INNS) with respect to the discharge of that responsibility. It is the responsibility of the President of the lead society to ensure that the General Chair is made aware of all relevant guidelines for the conference, including financial reimbursements. The General Chair shall appoint, may dismiss and is ultimately responsible for the duties of the other members of the Organizing Committee." Several proposals were then made between Mr. Downey of INNS and Professor Sha Zong. Some of these are listed below.
 - A. Prof. Zhou Mengqi told Mr. Downey that if INNS could attract 500 foreign visitors it would guarantee \$10,000 surplus for each participant (INNS, IEEE-NNC, and Chinese.) Discussion then ensued and Prof. Zhou noted that the problem is that the conference success must have the cooperation of the Chinese government and the Chinese attendees. Prof. Zhou noted as an example that the 21st Century quoted \$28 per night to the Chinese Beijing Section of the IEEE for

the conference. When the 21st Century was contacted by INNS, the quote was \$45 per night and that when Talley contacted them, it went to \$50 per night.

- B. Mr. Downey noted that this proposal was vastly different from the agreement that he felt had been reached at the Seattle IJCNN between the Chinese and INNS. He noted that the following would be the INNS responsibilities:

INNS: All outside China arrangements
All invited speakers
Meeting place contract
Pay all Banquet, coffee, etc. costs
Pay CNNC \$10/registrant
(Chinese Neural Network Council)
CNNC: All inside travel and arrangements
All inside speakers
Print the proceedings
Technical tours

It was then discussed that all expenses should be shared with all 3 groups.

- C. Mr. Downey then proposed that they had put in \$50,000 seed money and would be willing to:

INNS: Do all arrangements outside China
CNNC: Do all arrangements inside China

- D. Professor Sha Zong then expressed through Prof. Zhou that he would guarantee \$10,000 surplus each to IEEE-NNC and INNS if 500 foreigners participate. If more than 500 foreigners participate and fees were \$325 per person then he would return \$150/ person. The INNS would then assume ALL Chinese registrants as guests. The Chinese would provide all meeting rooms, banquet, coffee breaks, and a one day technical tour to Chinese Research Facilities independent of the number of registrants.

Roy Nutter asked the INNS for the status of the audit for IJCNN-Seattle. Mr. Downey said that he was still waiting on the audit from the University of Washington.

Prof. Zhou then proposed that the Chinese Neural Network Council would do ALL inside China work and use an inside team for conference management and assure government support.

- E. Mr. Downey was not satisfied with this proposal.
- F. Professor Sha Zong proposed through Prof. Zhou that the Chinese would return \$200 per person if INNS does the tutorials.

- G. General agreement follows. (Note that a signed final agreement is attached.)
- INNS: All promotional activities
 - All credit card and bank fees
 - All Processing of papers
 - All auditing expenses
 - Organize tutorials
 - Get tutorial speakers, pay fees, etc
 - All tours outside china
 - (noted need for approx 250 non-Chinese registrants)
 - CNNC: Pay Chinese committee expenses
 - Pay tutorial and plenary expenses for Chinese speakers
 - All tours inside China

Meeting adjourned for Mr. Downey to contact his Board members to discuss the proposal.

Note: A Final Agreement was agreed to the next day. A copy is attached.

Enc: IJCNN Agreement
Offer from CNNC
Letter from Morgan Downey
Letter of Understanding

cc: Russ Eberhardt
Pat Simpson
Jim Bezdek

November 19, 1991

Offer from CNNC :

1. CNNC does all logistical work inside China and be recognized as the "Organizer".
2. INNS will retain \$200 US per non-Chinese registrant (based on early/member rate) and retain all tutorial income. INNS be responsible for travel of speakers and facilities. CNNC will make arrangements with logistics for tutorials. INNS will collect registration fee from non-Chinese registrants and transfer at least one month before conference.

Registration based on \$325 member/early rate.

INNS keep 1/3 of student registration fee.

3. INNS will perform the following functions :
 1. Non-Chinese promotion.
 2. Non-Chinese abstract and manuscript processing.
 3. Non-Chinese pre-registration processing.
 4. Plan and Organize tutorial program to be finalized by August 30, 1992.
 5. Handle non-Chinese credit and card fees, bank fees and audit expenses, and,
 6. Assume non-Chinese committee expenses.
 7. INNS will provide camera ready copy before conference. ~~at August 1992~~ ~~SA~~ July 31/92
 8. CNNC responsible for in China tour and accompanying persons program.
 9. CNNC provide 100 copies of proceedings for post-conference sale if 200 non-Chinese participants.
4. Subject to approval of INNS and IEEE.

IJCNN Beijing Agreement between
Morgan Downey, INNS
Zhang Shaw, CNNC

11/19/91
8:55 pm
R.S. Nutter

Offer from CNNC:

1. CNNC does all logistical work inside China and is recognized as the "Organizer."
2. INNS will retain \$200 US per non-Chinese registrant (based on early/member rate) and retain all tutorial income. [\$325 early/non-member; \$375 on-site; \$??? month before conference.
3. INNS will perform the following functions:
 - 1) Non-Chinese promotion
 - 2) Non-Chinese abstract and manuscript processing
 - 3) Non-Chinese pre-registration processing
 - 4) Plan and Organize tutorial program to be finalized by August 30, 1992
 - 5) Handle non-Chinese credit card fees, bank fees and audit expenses, and
 - 6) Assume non-Chinese committee expenses.

4. Subject to approval of INNS and IEEE

INNS responsible for speakers costs, facilities of tutorials, & committee expenses
INNS will turn over camera ready full text
INNS will collect all fees from non-Chinese
INNS will keep 1/3 of student registration fees
Re Tours: outside China--INNS/inside China--CNNC

CNNC recommends 21st Century Hotel
CNNC will be responsible for accompanying person program

If less than 200 participants, 100 copies of proceedings @ cost
If more than 200 participants, 100 copies of proceedings free

CNNC will make hotel arrangements for tutorials.

Agreed subject to approval by IEEE NNC & INNS

D

INTERNATIONAL NEURAL NETWORK SOCIETY

1250 24th Street, N.W.
Suite 600
Washington, DC 20037
Telephone: (202) INN-INNS
Fax: (202) 466-3079

*Karen
copy this to
Bob Marks
Russ Eberhart
Pat Simpson
Jim Bezdak
Jules
RFM*

December 12, 1991

OFFICERS:

President
Paul Werbos
National Science Foundation

Vice President
Judith Dayhoff
University of Maryland

Secretary
James Anderson
Brown University

Treasurer
Harold Szu
Naval Surface Warfare Center

BOARD OF GOVERNORS:

Shun-ichi Amari
University of Tokyo

Richard Andersen
Massachusetts Institute of Technology

Gail Carpenter
Boston University

Leon Cooper
Brown University

Walter Freeman
University of California
Tadahiko Fukushima
Osaka University

Lee Giles
NEC Research Institute

Stephen Grossberg
Boston University

Morris Hirsch
University of California

Christof Koch
California Institute of Technology

Bart Kosko
University of Southern California

Christoph von der Malsburg
University of Southern California

Demetri Psaltis
California Institute of Technology

David Rumelhart
Stanford University

Terrence Sejnowski
Salk Institute for Biological Studies

Bernard Widrow
Stanford University

Roy Nutter
Chair
Meetings Committee
Neural Network Council
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

Dear Roy:

Attached is a copy of the agreement we reached with the China Neural Network Council. I presume from our discussions in Singapore that it is acceptable to IEEE Neural Network Council. If this is incorrect, please let me know as soon as possible.

We are revising the budget as per this agreement.

Sincerely,

Morgan Downey
Executive Director

MD:dch

Enclosure

*Jlc
12/31/91
18*

EXECUTIVE OFFICE:

Executive Director
Morgan Downey
General Counsel
Lawrence S. Hoffheimer

MEMBERSHIP OFFICE

P.O. Box 491166
Fort Washington, MD 20744
(301) 839-2114

LETTER OF UNDERSTANDING

1. This letter of understanding reflects an agreement between the International Neural Network Society (INNS), the lead of society for the Beijing-92-IICNN, and the China Neural Network Council. (CNNC).

2. It is agreed that CNNC is responsible for all logistical work inside China and shall be identified as the "Organizer" of the IICNN and that the "Co-Sponsors" of the meeting are:

International Neural Network Society (INNS)
IEEE Neural Network Council
SIGINNS CHINA
IEEE Beijing Section

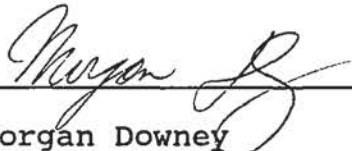
3. INNS will be responsible for the performance of the following functions occurring outside China:
 - (a) Promotion
 - (b) Abstract and Manuscript processing,
 - (c) Pre-registration processing, including travel,
 - (d) Planning and organizing the tutorial program (to be finalized by August 30, 1992)
 - (e) Handling credit card fees, bank fees and audit expenses,
 - (f) Providing camera-ready copy to CNNC no later than July 30, 1992, and,
 - (g) Travel of non-Chinese committee member (as of November 14, 1991 but not including the International Advisory Committee).

4. CNNC will be responsible, in addition to all other arrangements inside China, for:
 - (a) In-China tours,
 - (b) Accompanying persons program,
 - (c) Providing INNS with 100 copies of Proceeding/ tutorials for post-conference sale, provided that there are at least 200 non-Chinese registrants, and,
 - (d) Handling logistical arrangements for tutorials.

5. INNS will process all non-Chinese registrations. It will retain an amount equal to \$200US vis a vis the early / member fee, all tutorial income and 1/3 of the student registration. The balance shall be transferred to the Chinese Institute of Electronic account at the Bank of China, City Branch not later than one month before the commencement of the conference.

6. The agreement, differing significantly from the agreement existing between INNS and IEEE is subject to approval of other organizations. IEEE Neural Network Council approval was indicated in Singapore on November 20-21, 1991.

Agreed to on the 26th day of November, 1991 in Beijing, China.



Morgan Downey
Executive Director
International Neural
Network Society

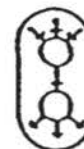


Zong Sha,
Chairman
China Neural Network Council

Harold Szu
Treasurer
International Neural
Network Society



NEURAL NETWORKS COUNCIL



Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.tti.org

December 30, 1991

Prof. Robert Marks, President
Neural Networks Council
Electrical Engineering Dept., FT-10
University of Washington
Seattle, WA 98195

Dear Bob,

I am concerned about the relationship between the IEEE Neural Networks Council (NNC) and the International Neural Network Society (INNS). In particular, I am concerned about events related to the IJCNN planned for Beijing, China, in November 1992. The purpose of this letter is to record my perceptions of some of those events.

Shortly after we arrived in Singapore for the IJCNN held there, we learned that Morgan Downey, working with Talley Management, had negotiated a contract with the China World Hotel in Beijing for the Beijing IJCNN. A conversation with Prof. Sha Zong, Beijing IJCNN Conference Chair and Secretary General for the IEEE Beijing Section, and Mr. Zhou Mengqi, Chief for International Activities, revealed that they were completely unaware of the contract. Sha and Zhou had not been involved; indeed, they had not even been informed. They were upset to learn of the Talley/Downey activities.

The understanding we had been working with was that the Chinese were responsible for everything inside China, and the INNS responsible for everything outside China. (Although this is somewhat an oversimplification, it is accurate for purposes of the issues being discussed here.)

Sha and Zhou informed us that they had been negotiating with other hotels, including the Beijing Continental Grand Hotel and the 21st Century Hotel. They had found that the costs at the China World Hotel were substantially higher than at those with which they were negotiating. In fact, the costs at the China World Hotel were so high that very few, if any, of the Chinese participants could afford to stay there, thus rendering the hotel unacceptable for the IJCNN. We of the NNC supported their conclusion.

A series of meetings was held in Singapore, with Dr. Roy Nutter, Chairman of the IJCNN Oversight Committee (IOC) acting as facilitator. In addition to Dr. Nutter, participants included Sha, Zhou, Downey, and Talley representatives. After two days of negotiations, an agreement was reached that essentially re-affirmed the previous one: it was agreed that the Chinese would be in charge of everything inside China, and the INNS in charge of everything outside of China.

It was learned that Downey and the Talley representatives were travelling from Singapore to Beijing, to join Harold Szu, who was coming to Beijing via Japan. In a response to our question regarding the necessity to send so large a delegation to Singapore and Beijing, they said that their expenses would not be charged to the Beijing IJCNN. It is still unclear to me why so many INNS-related representatives were needed in Singapore and Beijing.

I travelled to Beijing on November 26, arriving at about 2:00 p.m. The next evening, November 27, a dinner was hosted by Prof. Sha at the Beijing Hotel. Dr. Szu attended. Hotel negotiations were discussed, and it was stated that they were still ongoing, with a decision yet to be made. It seemed clear to me, however, that Sha and Zhou were in charge of the negotiations for the hotel. It also seemed clear to me that Szu was fully in accord with their actions.

I next met Prof. Sha in Nanjing on December 3, at the 2nd Chinese National Conference on Neural Networks. We spoke on several occasions. On the evening of the 3rd, for instance, Profs. Sha and Wu came to my hotel to discuss the IJCNN. It was stated at that time that the choice was between the 21st Century Hotel and the Beijing Continental Grand Hotel (a four-star hotel by international standards). I understood that a choice would be made by Prof. Sha within a few weeks.

I returned to the United States on December 8. December 13 was my last day of work at the Johns Hopkins University Applied Physics Laboratory. On December 14, my family and I moved to North Carolina, and on the 16th, I started work as the Director of Biomedical Engineering at Research Triangle Institute.

On December 24th, I received a copy of a letter written by Morgan Downey to Prof. Sha. It was dated December 18, 1991. A copy of the letter is enclosed as Enclosure (1). Downey's letter concerns me for two main reasons. First is the content of the letter. Second is its tone.

The content of the letter clearly indicates that, again, Downey is trying to control the selection of the IJCNN Beijing Conference Hotel, a decision that is the responsibility of Prof. Sha. Reading Downey's letter makes it seem to me that he is disregarding the essence of what he agreed to in Singapore.

The tone of the letter is, in my opinion, condescending and nasty. If

he had been paid to emulate an "Ugly American" he could not, in my opinion, have done a better job. For example, he characterized one of the hotels under consideration by the Chinese as "oppressive, utilitarian". And Downey gave the Chinese until "close of business December 19, 1991" to acquiesce to his edict that the hotel selection be the China World Hotel. If Downey's command wasn't followed, he said, he would "feel compelled to inform the Board of Directors [of the INNS] of the status of the proposed meeting in Beijing and to recommend transferring the meeting to Hong Kong."

It was, of course, impossible and improper for Prof. Sha to comply with Downey's ultimatum. Sha, not Downey, is responsible for the hotel selection. So, Downey, true to his threat, sent an email ballot to all members of the Board of Directors of the INNS, asking their support to move the meeting to Hong Kong. Prof. Amari informed the Chinese of the ballot, and let them know he opposed the proposed move.

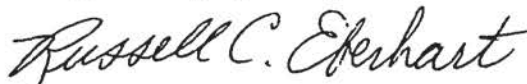
I received a letter from Prof. Sha, dated December 25. A copy of the letter is enclosed as Enclosure (2). Attached to Enclosure (2) are a letter from Prof. Amari to Prof. Sha, and a copy of Prof. Amari's email response to Downey's ballot. Prof. Sha's letter states his position clearly. I support it completely. Prof. Amari's letter and email state his position clearly. I also support Prof. Amari.

Again and again, Downey has acted so as to undermine Prof. Sha and the other Chinese organizers of the Beijing IJCNN. Again and again, continuing on with other instances in the past, INNS representatives have, in my opinion, acted in violation of the IEEE/INNS agreement on co-sponsoring conferences.

Professor Sha and his colleagues have been conscientious and efficient in their efforts to locate the Beijing IJCNN at the best possible location. They have negotiated room rates that are significantly less expensive, both for Chinese and foreigners, keeping the goal of the conference clearly in mind, as stated by Prof. Sha in his letter: "To promote and stimulate the mutual understanding and exchanges between the Chinese scientists and the scientists the world over is our only aim and sincere hope."

Unless control of Beijing IJCNN conference arrangements and activities is decisively returned in writing by January 15, 1992, to General Chairman Professor Sha Zong in accordance with the IEEE/INNS Agreement and IEEE policies, I will recommend to the IEEE Neural Networks Council AdCom that the Agreement be terminated immediately.

Very truly yours,



Russell C. Eberhart

INTERNATIONAL NEURAL NETWORK SOCIETY

E1

1250 24th Street, N.W.
Suite 600
Washington, DC 20037
Telephone: (202) INN-INNS
Fax: (202) 466-3079

December 18, 1991

OFFICERS:

President
Paul Werbos
National Science Foundation

Vice President
Judith Dayhoff
University of Maryland

Secretary
James Anderson
Brown University

Treasurer
Harold Szu
Naval Surface Warfare Center

BOARD OF GOVERNORS:

Shun-ichi Amari
University of Tokyo

Richard Andersen
Massachusetts Institute of Technology

Gail Carpenter
Boston University

Leon Cooper
Brown University
or Freeman
University of California

Kunihiko Fukushima
Osaka University

Lee Giles
NEC Research Institute

Stephen Grossberg
Boston University

Morris Hirsch
University of California

Christof Koch
California Institute of Technology

Bart Kosko
University of Southern California

Christoph von der Malsburg
University of Southern California

Demetri Psaltis
California Institute of Technology

David Rumelhart
Stanford University

Terrence Sejnowski
Salk Institute for Biological Studies

Bernard Widrow
Stanford University

By FACSIMILE

Professor Zong Sha, Chairman
China Neural Network Council
Chinese Institute of Electronics
Nongzhanguan Nanluy 12
Room 2307
Beijing, 100026
CHINA

Dear Professor Sha:

I am extremely distressed to receive your recent communication which negated the agreement we reached in Beijing.

As you recall, Harold Szu, Sylvia van Laar, Gregg Talley and I travelled to Singapore and Beijing to specifically discuss the hotel location with you. After visiting several hotels in Beijing, including the Beijing Continental Grand Hotel, we felt strongly that only the China World Hotel met the international standards for an IJCNN. We specifically discussed the Beijing Continental Grand Hotel and pointed out that its rooms were on a par with very modest American hotels, such as the Best Western, and that it had an oppressive, utilitarian atmosphere about it. Further, it was significantly removed from the center of Beijing and its tourist attractions.

We conveyed this to you in good faith and expressed our willingness to work with you to assure that, as much as possible, the China World Hotel facility was accessible to the Chinese participants.

Our suggestions included a surcharge on the non-Chinese registration to (a) subsidize the room rate at the China World Hotel companion facility, Traders or (b) provide transportation to the China World Hotel from other locations. Our understanding provided that the China Neural Network Council would receive \$125US per non-Chinese registrant. You will recall that you accepted the need to conduct the conference at the China World Hotel. On November 27,

EXECUTIVE OFFICE:

Executive Director
Jan Downey
General Counsel
Lawrence S. Hoffheimer

MEMBERSHIP OFFICE

P.O. Box 491166
Fort Washington, MD 20744

Professor Zong Sha
December 18, 1991
Page 2

we all had breakfast hosted by China World Hotel to finalize this agreement at which time Harold Szu and I gave you the signed proposal. Needless to say, our cost and time in making these arrangements with you was very significant.

It is my understanding that, after our delegation left Beijing, you insisted that the Trader's facility had to provide a room and three meals to the Chinese registrants for \$22US per night. Not only is this requirement patently unreasonable, you indicate in your letter that you accepted \$35US per night from the hotel, Asian Games Village, which is part of the Beijing International Convention Centre. It is difficult not to conclude that you have imposed an unreasonable requirement on China World Hotel in the expectation that this would cause negotiations to break down and allow you to proceed with your first choice, the Beijing Continental Grand Hotel. It is also hard to believe that the China IEEE section cannot help to subsidize the travel of your scientists to meet with the Western scientists we had hoped to attract to Beijing.

To disregard our efforts, convene a local meeting and inform me of the results is simply unacceptable. As we discussed in Singapore, the agreement between IEEE and INNS regarding the conduct of IJCNNs is unequivocal in that the General Chair and other chairs are "accountable to the lead society."

Talley Management Group which has a vast amount of experience in conducting international scientific meetings, along with myself, share grave concerns that this recent behavior:

- a. compromises our ability to work with CNNC in conducting this meeting,
- b. will result in significantly reduced registrations from outside of China,
- c. will make it unlikely that the investment of seed money made on behalf of both IEEE and INNS by INNS will be recaptured, and,
- d. will tarnish the international reputation for high quality meetings enjoyed by the IJCNNs.

As is the case with planning such meetings, INNS has reserved back-up space in Hong Kong in the event a meeting in Beijing could not be held. I feel compelled to inform the Board of Directors of the status of the proposed meeting in Beijing and to recommend transferring the meeting to Hong Kong. In all sincerity, I do not wish to take this step, but I need an immediate assurance from

Professor Zong Sha
December 18, 1991
Page 3

you that (a) your negotiations with China World Hotel are continuing and (b) I or Sylvia van Laar at Talley Management Group will be regularly consulted regarding all similar arrangements, such as post-conference tours, etc., before similar decisions are taken. Please keep in mind that we remain extremely flexible to consider financial arrangements which will be satisfactory to both societies and are in the interest of convening an excellent meeting.

I will need such assurances by close of business December 19, 1991.

I look forward to hearing from you.

Sincerely,


Morgan Downey
Executive Director

MD:dch

cc: Dr. Paul Werbos
Dr. Shun ichi Amari
Dr. Harold Szu
Dr. Russell Eberhart
Roy Nutter

E2
Enclosure (2)



中國電子學會

CHINESE INSTITUTE OF ELECTRONICS

Nongzhanguan Nanlu No. 12, Room 2310,
Beijing 100026, China
Tel: 5001144 Ext. 2310
Telex: 210431 CIE CN.

Dec. 25, 1991,

ATT: PROF/ DR. RUSSELL C. EBERHART
DIRECTOR, BIOMEDICAL ENGINEERING PROGRAM
PO BOX 12194 REESEARH TRIANGLE PARK, NC 27709-2194
AND GENERAL CO-CHAIR
IJCNN'92-BEIJING, CHINA

DEAR PROF/DR. EBERHART,

MERRY CHRISTMAS,

I BELIEVE THAT YOU RECEIVED MY LETTER ADDRESSED TO MR MORGAN DOWNEY ON DEC. 12. NOW I ENCLOSED THE FAX I RECEIVED FROM PROF AMARI AND THE FAX FROM MR MORGAN DOWNEY FOR YOUR REFERENCE.

ACTUALLY, THE PROBLEM IS NOT COMPLEX, BUT VERY SIMPLE. THE ONLY DIVERGENCE BETWEEN MR. MORGAN DOWNEY AND ME, NOT BETWEEN INNS AND CNNC, IS TO HOLD THE IJCNN'92 IN THE CHINA WORLD HOTEL WHICH DOWNEY PREFERRED OR IN BEIJING CONTINENTAL GRAND HOTEL WHERE THE 11TH ASIAN GAME TAKEN PLACE IN 1990, WHICH I STUDIED THE BEST FOR IJCNN'92. ON NOV. 26, WE HAD BREAFAST TOGETHER WITH MR. DOWNEY AND PROF. SZU IN A HARMONIOUS ATMOSPHERE AND REACHED A AGREEMENT THAT THE CHINA WORLD HOTEL IS OUR FIRST CHOICE IF THE HOTEL CAN ACCOMODATE THE CHINESE PARTICIPANTS AT THE ACCEPTABLE PRICE. PROF. SZU AND MR DOWNEY AGREED WITH US AT THIS POINT. TO PROMOTE AND STIMULATE THE MUTUAL UNDERSTANDING AND EXCHANGES BETWEEN THE CHINESE SCIENTISTS AND THE SCIENTISTS THE WORLD OVER IS OUR ONLY AIM AND SINCERE HOPES. THUS, OUR PRINCIPLE OF HOTEL SELECTION IS WHERE THE HOTEL CAN ACCOMODATE BOTH THE CHINESE AND FOREIGN PARTICIPANTS TOGETHER WITH AN ACCEPTABLE PRICES. WE HAVE NO OTHER AIM.

AFTER MR. DOWNEY LEFT BEIJING ON NOV. 26, WE NEGOTIATED WITH CHINA WORLD HOTEL, THEIR FINAL ROOM QUATATION IS HIGH AND WHAT IS MORE THAT THEY CAN NOT ACCOMODATE THE 300 CHINESE PARTICIPANTS. CONTRARY, THE BEIJING CONTINENTAL GRAND HOTEL, A 4-STAR INTERNATIONAL STANDARD HOTEL JUST COULD ACCOMODATE BOTH THE CHINESE AND THE FOREIGN PARTICIPANTS TOGETHER AT A PRICE OF 65 US DOLLARS PER ROOM. I FAXED MR DOWNEY ABOUT THE PRESENT SITUATION AND MADE A COPY FOR YOUR REFERENCE. THE FOLLOWING ADVANTAGES ARE WHY WE SELECTED THE BEIJING CONTINENTAL GRAND HOTEL:

1, BOTH THE CHINESE AND FOREGIN SCIENTISTS CAN STAY AND DINE IN THE SAME HOTEL, EASY FOR EXCHANGE IDEAS

PAGE 2-1



中國電子學會

CHINESE INSTITUTE OF ELECTRONICS

Nongzhanguan Nanlu No. 12, Room 2310,
Beijing 100026, China
Tel: 5001144 Ext. 2310
Telex: 210431 CIE CN.

2, THE HOTEL HAS A MODERN AND INTERNATIONAL STANDARD FACILITIES FOR CONFERENCES, THE INTERNATIONAL CONVENTION CENTRE WITH SPECIAL STRUCTURE FOR INTERNATIONAL CONFERENCES WHERE ALL CONFERENCES OF THE 11TH ASIAN GAMES HELD HERE AND HAD GOOD RESULT. MANY INTERNATIONAL ACTIVITIES ALSO TAKEN PLACE HERE.

3, THERE ARE 5-STAR HOTELS AROUND LIKE THE GREAT-WALL SHERATON AND KUN LUN HOTEL WITH EASY TO REACH DISTANCE AND SHUTTLE BUSES ARE FREE. 3-STAR HOTELS ARE ALSO AVAILABLE AROUND. I DO NOT THINK ALL FOREIGN SCIENTISTS WANT TO SELECT A 5-STAR HOTEL. SO HERE, WE PROVIDE A WIDE RANGE OF HOTEL SELECTION, THAT WILL PROMOTE MORE PARTICIPATION.

I DO NOT QUITE UNDERSTANT THE PROBLEM UP TO TODAY, WHY THE SELECTION OF THE CONFERENCE VENUE, A VERY SIMPLE AND A DEFINITE PROBLEM WHICH SHOULD BE DICIDED BY THE LOCAL ORGANIZATION, CAUSED SUCH STRONG NEGATIVE REACTION FROM MR. DOWNEY? THE REACTION IS SO STRONG AND SO UN-UNDERSTANDABLE THAT HE HIMSELF ASK AGREE FROM THE GOVERNING BOARD OF INNS TO MOVE THE CONFERENCE OUT OF CHINA, THAT WILL TEAR UP ALL THE WIRTREN AND ORAL AGREEMENT AMONG THE THREEE WORLD LEARNED SOCIESTIES OF THE IEEE, INNS AND CNNC. IT IS REALY UN-UNDERSTANDABLE, I DO NOT WANT TO SEE IT WILL HAPPEN.

ON THE OTHER HAND, WE RESUMED THE NEGOTIATION WITH CHINA WORLD HOTEL AFTER WE RECEIVED MR DOWNEY'S FAX ON DEC 18, AND I FAXED HIM AGAIN ON DEC. 23 REPORTING THE INFORMATION ABOUT OUR NEGOTIATION WITH CWH. AND THE NEGOTIATION IS STILL GOING ON, NOT TERMINATED YET. JUST UNDER THIS STAGE MR. DOWNEY REQUESTED US TO DO, HE HASTILY DISTRIBUTED THE BALLOT FORM TO THE INNS GOVERNING BOARD TO VOTE, I DO NOT THINK THIS ACTION IS USUAL.

ON BEHALF OF THE CNNC, I WOULD LIKE TO EXPRESS OUR HOPE THAT YOU WILL KINDLY CONVEY OUR STAND TO THE GOVERNERS OF IEEE NEURAL NETWORK COUNCIL, LET THEM KNOW WHAT HAPPENED AND MAKE A CORRECT DECISION.

WE ARE DETERMINED TO HOLD AN INTERNATIONAL CONFERENCE ON NEURAL NETWORK IN 1992 IN BEIJING NO MATTER WHAT DECISION INNS WILL MAKE OUT.

LOOKING FORWARD TO HEARING FROM YOU SOON

WITH BEST REGARDS AND MERRY CHRISTMAS

YOURS SINCERELY
ZONG SHA 
VICE CHAIRMAN AND SECRETARY GENERAL, CNNC

DEPUTY SECRETARY GENERAL
CHINESE INSTITUTE OF ELECTORNICS
IEEE BEIJING SECTION

Telephone: (03) 3812-2111
Telex: 2722111 FEUTJ
Telefax: 3-5689-5752
e-mail:
amari@sat.t.u-tokyo.ac.jp

University of Tokyo
Faculty of Engineering
Department of Mathematical Engineering and Information Physics
Bunkyo-ku, Tokyo 113, Japan

December 20, 1991

Prof. Zong Sha
Chinese Institute of Electronics
Nongzhanguan Nanlu 12,
Room 2307
Beijing 100026,
China

Dear Professor Sha :

I have received a very bad news and a ballot form through electric mail addressed to the governing board of INNS. The ballot asked us "yes" or "no" to the motion that we authorize Szu and Downey to move the site of the IJCNN'92. I answered "no".

I do not like the American way of business. I have expressed my view to the governing board, which I will send for your information. I hope we can resolve these difficulties.

Have a nice new year, with warmest wishes,



Shun-ichi Amari

1991 12 19 14:58:21 X 03 5689 5752 1991 12 19 14:58:21

From amari Thu Dec 19 14:58:21 1991
Received: by sat.t.u-tokyo.ac.jp (4.1/6.4J.6)
id AA22980: Thu. 19 Dec 91 14:58:12 JST
Date: Thu, 19 Dec 91 14:58:12 JST
From: amari (Shun-ichi Amari)
Message-Id: <9112190558.AA22980@sat.t.u-tokyo.ac.jp>
To: 70712.3265@compuserve.com, Diana@park.bu.edu, amari,
amari@sat.t.u-tokyo.ac.jp, andersen@MITWCCF@NSF.GOV,
anderson@browncoq.bitnet, btelfe@bagheera.nswc.navy.mil,
dayhoff@era.src.umd.edu, der@psych.stanford.edu, giles@research.nec.com,
hirsch@math.berkeley.edu, koch@hamlet.caltech.edu, kosko@sipi.usc.edu,
malsburg@yorick.usc.edu, mth9ivn@buacca.bitnet,
ph706009@brownvm.bitnet, psaltis@sunoptics@cscvax.cs.caltech.edu,
pwerbos@NSF.GOV, tsejnowski@ucsd.edu, wfreeman@garnet.berkeley.edu,
widrow@isl.stanford.edu
Subject: bad news and need ballot

My vote is "no".

Since I do not know well about the situation, I cannot simply say yes.

I would like to express my general opinion here. It was clear from the beginning that an IJCNN-China is not profitable. If we would think an IJCNN as such, it is an extremely bad choice to have one in Beijing.

I like the way as "Do in Roma as the Romans do". I do not want to stay in a gorgeous American-style hotel in China. I would like to see present China as it is, as well as to enjoy another style traditional culture of China, from which Japanese culture has been influenced a lot as well as from the Western culture.

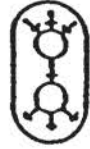
I think we can hold an IJCNN in this style: All the local arrangements would be operated by Chinese people in their style; We are responsible only for academic subjects. For example, we do not support any traveling expenses and accommodation expenses; we do not prepare any posters but do publicize the meeting only through our Journal "Neural Networks", IEEE journals and others. Tutorials are organized on the volunteer basis. We can minimize our costs in this way, and we have no deficit and no profit.

I am afraid that I have stated too much an idealistic opinion. One point I would like to comment is that Hong-Kong or Taiwan IJCNN does never become profitable, although we can enjoy gorgeous American style IJCNN.

As a person who took the first contact with Chinese researchers, I am relying on them and I hope to go well with them under these difficult circumstances.



NEURAL NETWORKS COUNCIL



F

Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.ti.org

January 3, 1991

Dr. Paul Werbos, President
International Neural Network Society
1250 24th Street, N.W., Suite 600
Washington, DC 20037

Dear Dr. Werbos:

Unless control of Beijing IJCNN conference arrangements and activities is returned, in writing, by January 17, 1992, to General Chairman Professor Sha Zong in accordance with the IEEE/INNS Agreement and IEEE policies, I will recommend to the IEEE Neural Networks Council Executive Committee and AdCom that the Agreement be terminated immediately.

Very truly yours,

A handwritten signature in cursive script that reads "Russell C. Eberhart".

Russell C. Eberhart

INTERNATIONAL NEURAL NETWORK SOCIETY

G

1250 24th Street, N.W.
Suite 600
Washington, DC 20037
Telephone: (202) INN-INNS
Fax: (202) 466-3079

January 9, 1992

OFFICERS:

President
Paul Werbos
National Science Foundation

Vice President
Judith Dayhoff
University of Maryland

Secretary
James Anderson
Brown University

Treasurer
Harold Szu
Naval Surface Warfare Center

BOARD OF GOVERNORS:

Shun-ichi Amari
University of Tokyo

Richard Andersen
Massachusetts Institute of Technology

Gail Carpenter
Boston University

Leon Cooper
Brown University

or Freeman
University of California

Kunihiko Fukushima
Osaka University

Lee Giles
NEC Research Institute

Stephen Grossberg
Boston University

Morris Hirsch
University of California

Christof Koch
California Institute of Technology

Bart Kosko
University of Southern California

Christoph von der Malsburg
University of Southern California

Demetri Psaltis
California Institute of Technology

David Rumelhart
Stanford University

Terrence Sejnowski
Salk Institute for Biological Studies

Bernard Widrow
Stanford University

Russell C. Eberhart
Director, Biomedical Engineering
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709-2194

Dear Mr. Eberhart:

Paul Werbos has asked me to respond to your e-mail message of January 3, 1992 to him.

Your letter demands that "control of Beijing IJCNN conference arrangements and activities" be "returned to Professor Sha Zong".

The agreement between INNS and IEEE Neural Networks Council dated January 31, 1991 states:

"(3) Primary responsibility for operation of each conference shall alternate between the two organizations. The organization with responsibility for a particular conference shall be known as the "lead society"."

"(4) The lead society shall appoint the General Chair with the advice and consent of the President of the other organization. The lead society guarantees the other society complete access to the financial records of the conference at any time."

"(15) The General Chair has primarily responsibility for all aspects of the meeting and is accountable to the lead society with respect to the discharge of that responsibility." (Emphasis added)

As you know the INNS Board of Governors has delegated this responsibility to Harold Szu and myself.

EXECUTIVE OFFICE:

Executive Director
Jan Downey
General Counsel
Lawrence S. Hoffheimer

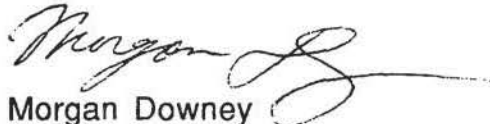
MEMBERSHIP OFFICE

P.O. Box 491166
Fort Washington, MD 20744
(301) 839-2114

Under the terms of this agreement INNS has and will remain as the lead society for the meeting scheduled for November 1992 in China. We intend to fulfill our obligations to both the INNS and IEEE to assure a high quality scientific conference and to work within the agreed upon budgets.

Therefore grounds do not exist for the termination of the agreement between IEEE Neural Network Council and the INNS. However, if the IEEE Neural Network Council takes this action, please advise me immediately so that INNS can make an appropriate response.

Sincerely,



Morgan Downey
Executive Director

cc: Dr. Paul Werbos
Dr. Harold Szu
Professor Shun-ichi Amari

CALL FOR PAPERS

**IJCNN '92
Beijing**

**1992 International Joint Conference
on Neural Networks
Beijing, China
November 3-6, 1992**

General Chair
Dr. Zong Sha
Chinese Institute of Electronics
Beijing, China

Sponsored by:
The IEEE Neural Networks Council
The China Neural Networks Council
The International Neural Network Society (INNS)
The IEEE Beijing Section

The International Joint Conference on Neural Networks (IJCNN '92-Beijing) will be held November 3-6, 1992 (Tutorials on November 1-2), in Beijing, China. This conference is intended to provide a forum for dissemination of the latest scientific and technical information in the various fields of Neural Networks. All persons interested in the field of Neural Networks are invited to submit papers to this conference.

TOPICS OF INTEREST

Papers may be submitted for consideration as oral or poster presentations in the following areas:

- | | | |
|-------------------------------|---------------------------|------------------------------|
| Applications | Associative Memory | Biological Models |
| Biomedical Applications | Bio-Molecular Electronics | Electrical Neurocomputers |
| Financial Applications | Fuzzy Logic | Image Processing |
| Mathematical Models & Methods | Hybrid Systems | Optical Neurocomputers |
| Optimization | Neurodynamics & Chaos | Self Organization |
| Vision & Hearing | Robotics & Control | Sensorimotor Control Systems |

Send Papers to:

(In China)
Prof. Yi Zin Zhong
IJCNN '92 Beijing
Beijing Univ. of Posts & Telecom.
Beijing 100088, China
Tel: 201-3388 ext. 2203
Telex: 210431 CIE CN
Fax: 500-5233

(Outside China)
Dr. Russell C. Eberhart, Director
Biomedical Engineering
Research Triangle Institute
PO Box 12194
Research Triangle Park NC 27709 USA
Phone: 919-541-7123, Fax: 919-541-8746
E-mail: rce@rti.rti.org

General Information:

Complete program, registration and travel information will be mailed in January 1992. For further details you may write or fax:
Dr. Russell C. Eberhart, Director
Biomedical Engineering
Research Triangle Institute
PO Box 12194
Research Triangle Park NC 27709 USA
Phone: 919-541-7123, Fax: 919-541-8746
E-mail: rce@rti.rti.org

PAPERS MUST BE RECEIVED BY FEBRUARY 29, 1992.

All submissions will be acknowledged by mail, and accepted papers will be published as submitted.

All papers accepted for presentation will be published in full in the Conference Proceedings, which is expected to be available at the Conference for distribution to all regular Conference registrants. Oral presentations will be given from 8 a.m. to 12N and from 5p.m. to 9 p.m. Afternoons are devoted to poster sessions and exhibits.

Four (4) copies (one original and three copies) of the paper are required for submission. Do not fold or staple the original camera-ready copy. Only complete papers will be considered. Papers must be submitted camera-ready on 8 1/2" x 11" white paper with one inch margins on all four sides. They should be prepared by typewriter or letter-quality printer in one-column format, single-spaced, in Times or similar type style of 10 points or larger, and printed on one side of the page only. (This text is 10 point Times.) All text, figures, captions, and references must be clean, sharp, readable, and high contrast.

FAX submissions are *not* acceptable. There will be a charge for papers exceeding six pages.

Centered at the top of the first page should be the complete title, author name(s), affiliation(s), and mailing address(s). This is followed by a blank space and then the abstract, up to 15 lines, followed by the text. In the accompanying letter, the following information must be included:

- Full Title of the Paper
- Corresponding Author Name
- Mailing Address
- Telephone and FAX Numbers
- Technical Session 1st and 2nd choices
- Presentation Preferred- Oral or Poster
- Presenter Name, Mailing Address Telephone and FAX Numbers
- Audio Visual Requirements

**IEEE****EDUCATIONAL ACTIVITIES DEPARTMENT**

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (908) 981-0060 TELEX 833233 FAX (908) 981-1686

January 13, 1992

To: Mohamed El-Shawkari

Fr: Peter Wiesner *mw*cc: Robert Marks
Russel Eberhardt
Jim Bezdek

Attached is a draft of a proposal to record video tutorials on fuzzy logic.

What I am seeking at this point is an endorsement of the project by the Neural Nets Council and, additionally, financial involvement.

Please let me know what you think.

draft 1/13/92

PROPOSAL FOR FUZZY LOGIC TUTORIALS

The IEEE Educational Activities Dept. proposes to record up to six presenters, many of whom will be presenting tutorials at Fuzz-IEEE 92.

Following the arrangement with Neural Nets Council to record the Pioneer lecturers, we would like to interest the Neural Nets Council to participate in the recording of video tutorials on Fuzzy Logic.

Jim Bezdek, University of West Florida, would identify and invite the presenters. He would be responsible for making sure that the presentations are coordinated for distribution as a series. There is a possibility that the presentations would be recorded in a studio situation in conjunction with Fuzz-IEEE 92 this March in San Diego.

The agreement between IEEE Educational Activities Board and Neural Nets Council would include the following provisions:

1. IEEE Educational Activities Department (EAD) would:

* develop an agreement with the presenters, indicating payment of a \$1,000 honorarium (no royalties) plus out-of-pocket expenses incurred because of videotape arrangements made by IEEE Education.

* videotape the presentatations under studio conditions, such as those available at a university or corporation.

* coordinate the production with a local production unit (university or private company) capable of delivering a professional product. This would involve a contract between IEEE Educational Activities and the produciton entity.

* coordinate the pre-production work of the presenters, such as the preparation of graphics.

* evaluate the production quality of the videotape presentation.

* promote programs through direct mail and appropriate advertisement.

2. The Neural Nets Council would:

* invest up to \$3,000 per program.

* provide technical reviewers for the tape, assuring quality of content.

* assist in promoting videotape through listings in its publications.

3. Royalties based on cost and level of investment

We propose to allow the Neural Nets Council to recover its investment through royalties. The arrangement we propose assumes that Educational Activities is producing and distributing video tutorials as a membership service, seeking to recoup its investment. We are proposing a royalty scheme based on our past sales history and costs. Assuming 175 copies sold (which would take place over a two-year period based on sales of similar programs), we anticipate the average cost of a single program to include:

- \$ 3,500 TV recording and editing
- 1,000 honorarium for presenter
- 800 accompanying print materials
- 1,500 promotion
- 2,000 producer fee

- \$ 8,800 production (subtotal)

- 3,750 duplication, 175 release copies
- 4,500 salaries and overhead, distribution

\$17,050/ program total project cost

Assuming we sell 200 titles (our set break-even point, given our pricing), EAD would charge 99.00/ member and \$119.00 for non-member (most sales are to members), and thereby recover our costs when that many titles are sold. Given these projections, we invite the Neural Nets Council to invest funds in accordance with the the following royalty schedule, enabling the Council to recover costs when 200 copies are sold and to generate surplus revenue thereafter. What follows are some options:

Amount invested by Neural Nets Council per title	Royalties (first 200 copies sold)	Royalties (each additional copy)
\$1,500	\$ 7.50/copy	\$4.00/copy
\$3,000	\$15.00/copy	\$ 8.00/copy

If the Neural Nets Council decides to market the tapes through promotion, forwarding orders to IEEE Education, EAD will pay 10% rebate of the amount collected. Hence, the Council could generate as much as \$24.90 per tape sold at \$99 for the combined royalty and rebate.

Discussion of Troy Nagle as possible historian so that the technology and politics not be lost. Other possible candidates were Wes Snyder, Karen Haines, Ed Rosenfeld, Derek Stubbs.

Past President Bob Marks will chair committee members to be Kartalopolis, Wes Snyder, Jim Bezdek.

- Local Chapters: many requests are being received

MOTION: Provide \$1000 for reimbursement of speaker expenses for the regional interest group for neural networks to Rick Alan of TRW, Mesa, AZ, with the condition that the local section provide support, to begin implementation of the Council's Distinguished Lecture program.

Approved.

- **Secretary's Report - none provided**

- **Meetings**

- Workshop Cluster

Forum on Applications [TAB 16] of Artificial Neural Network Technology of Electromagnetic Inverse Problem and Remote Sensing requests delay to March 15-18, 1993.

MOTION: Approve delay for above forum. March 15-18, 1993.

- * **NEW BUSINESS**

- Council Structure [TAB 24] (*insert new 1992 names & put copy in minutes*)

Agenda for March - Newsletter Publication Russ
(see attached costs estimates) see Attachment #2

- **Meetings**

- San Diego Section

Accepted \$5000 check. Will try to do a better job on FUZZ-IEEE-92. Martin McNeil will be liaison to section (also local arrangements). job = local publicity, volunteers, spouse activities, then section will receive 10% of surplus for FUZZ-92

- Baltimore IJCNN

Approved budget for Clifford Lau
Baltimore Section is cooperating for (5%?)

MOTION Reduce to \$2500 the advance plus split 50/50 on above form.

ACTION: RSN write letter [TAB 16]

- **Workshop Cluster** Refer to Meetings Committee

MOTION Accept the appended audit for June 1990 meeting. This must now be submitted

ACTION: Marks mail TAB 9 audit to IEEE

- **IJCNN-Singapore**
Attendance approximately 600 as of Monday 11/18/91

- **Rostov-on-Don Symposium**

ACTION: Budget to Meetings Committee

- **FUZZ-IEEE-93**

ACTION: Budget to Meetings Committee

ACTION: 1) Logo looks like a problem because Stanford
2) 92,000 for promotion is too much
recommend 50,000
3) line 18 seems too high and need detail

MOTION \$10,000 for publicity (Nutter write Ruspini) and miscellaneous items for FUZZ-IEEE-93 will be debited against the conference advance.

Approved.

- **IJCNN-Beijing '92**

INNS has booked China World Hotel contrary to IOC agreement at \$200 US per night.

INNS has taken away from the Chinese organizers the responsibility for the local arrangements.

INNS has not submitted a budget to the Oversight Committee for Beijing-92

Russ suggests that a letter be written to Paul Werbos, INNS President to terminate the agreement for this meeting unless INNS unconditionally returns control to Dr. Zhang Sha, the General Chairman. Dr. Sha has control of all conference officers and all financial arrangements. Neither Dr. Sha nor Dr. Yuan (apparent financial appointment) were consulted in this contract and

Idota head of Japanese technology transfer

Motion: Roy Nutter will meet with Mr. Downey and Dr. Sha to attempt resolution of Beijing problem. This will be returned to special meeting of ExCom @ Singapore this week. Outcome should be that conference management be returned to Conference Chairman.

Approved

• **Treasurer's Report**

- Trademark Status: Bill Hagen moving forward on application for NNC, ICNN, World Congress names.

ACTION: Newsletter editor will handle trademark with Bill Hagen with IEEE office. Pat will contact Wes Snyder

- IEEE logo size on the newsletter will be corrected per Russ Eberhart
- 1992 Budget
\$168,000 in back (\$268,000 last year at this time. No data received on IJCNN-Seattle from INNS. Bob Marks received verbal word from George Landaris that conference made a small surplus. Most of the difference is in encumbrances for future meetings.
- Note [TAB 7] investments
- Entitlement Tax [TAB 8] on NNC of \$2004. Check from Transactions will be \$2004 less than normal tax

- Attendance of Chinese and Japanese will make or break the conference

- Nagoya

Toshio Fukuda submitted preliminary preliminary budget. Discussion was the deficit was too high. Toshi will include industry contribution as income in next preliminary budget.

- Power Forum 93 [TAB 17]

ACTION: Remanded to Meetings Committee

- Signal Processing Forum [TAB 18]

ACTION: Remanded to Meetings Committee

Discussion of Problems: cannot use "International" in title
Bob Marks will write letter to Singapore section

- Technical Co-Sponsorship [TAB 19] information
- Meeting Management Contract [TAB 20]
IEEE has reviewed & approved.

ACTION: Referred to Meetings Committee

- **Publications**

- Transactions on Fuzzy Systems
Jim Bezdek was tentatively appointed as Editor of Transactions of Fuzzy Systems

ACTION: Russ prepare IEEE Trans. of Fuzzy System report to Presidents Forum.

- Transactions on Neural Networks
1000th paper just submitted

Bob Marks requesting: that a Xerox machine be purchased for the Editor equipment be depreciated at rate as follows:

30% 1st year
25% 2nd year
15% 3rd year
15% 4th year
15% 5th year

ACTION: Add to agenda for March AdCom

- Newsletter
TAB Publications Council approved
TAB Periodicals Council & TAB Publication Board approved

- **Standards: No report**
Next meeting in February at Auburn

- **Other Reports**

- Committee on Man and Radiation, Pat Simpson
- Video Tutorials
3 pioneers have agreed to make tapes as NNC Pioneer Video Lecture Series

- Distinguished Lectures [TAB 23]

* **OLD BUSINESS**

• **Towards a Society**

Need a Constitution Committee

Need an action of AdCom

Need a name acceptable to TAB

ACTION: Refer to next AdCom meeting

Adjourned temporarily at 6:15 pm

*ExCom reconvened 11/19/91 3:30 pm @ Westin Singapore
insert Nagoya notes from Russ*

- **Re: Marks needs a copier for Transactions**
Russ needs a computer

ACTION: Refer to AdCom

- **Council Structure:**

Russ is reorganizing (see Attachment)

- **Stationary Ordering**

Russ will send letter authorizing stationary

- **IJCNN Seattle Audit:**

U of Washington has not provided audit to INNS as yet. The contract specified 90 days.

- **Advertising in Newsletter**

NNC will charge for advertising conference

- **IEEE Workshop on Neuro-Fuzzy Control requested by Toshi Fukuda**

ACTION: Refer to Meetings Committee

Adjourn to Executive Session at 6:00 pm

Return from Executive Session at 5:53 pm

- **Move to approve signing Sheraton Contract dated Oct. 24, 1991.**

- **FUZZ-IEEE-92**

Present count 375 papers submitted 275-300

Special issue of Transactions of Neural Networks will use really good papers

Leftover papers will be kept for Transactions on Fuzzy Systems

Exhibitors: "Everyone from Japan will be

FLSI, OMRON,

Believes heavy and through participation from Japan but with registration being probably at the last minutes

Estimating 800-900 attendees

- **FUZZ-IEEE-93** Program

- **FUZZ-IEEE-94** Piero Bonosani, General Chair

- **FUZZ-IEEE-95** Recommend that be held in Japan

Recommend hold World Congress every 3 years and individual conferences.

MOVED: Addition \$10,000 be loaned to FUZZ-IEEE-92 for additional mailing.

PR: Pat will handle PR to be sure Approved unanimously

ACTION: Consider Pierro Bonosani, GE, for Chairman of [Jim Bezdek] FUZZ-IEEE-94

Zong
(Zhang Sha and _____ joined the meeting at 2:00 pm)

4

Duties of Meetings Chair

1. Maintain current Meeting Matrix

Be sure that conferences are placed on the NNC meeting matrix and that all IEEE required key dates and key budgeting dates are met.

2. Correspond with IEEE Service Center, 445 Hoes Lane, PO Box 1331, Piscataway, NJ, 08855-1331, so they can send each conference & forum chair a copy of the IEEE Conference Planning guide.

3. Correspond with each conference organizing chairman to frequently remind him of budgeting due dates to NNC.

4. Maintain Minutes Book for NNC Meetings Committee

5. All actions by Meetings Committee are "recommendations" to NNC Administrative Committee (AdCom)

Method: Discuss openly and at length all meetings related business in Meetings Committee. Then take conclusion to AdCom in form of a "formal motion."

6. Work through IOC (InterOperating Committee: consists of 3 members from IEEE NNC and 3 members from INNS. See IOC document for method of operation.) Chair of IOC alternates between IEEE and INNS (IEEE in odd numbered years).

7. Forums: Meetings Committee will:

Review and approve NNC related forums that are in the best interest
Keep matrix of received/approval status.

8. Send meetings listings and updates to IEEE TAG for listing in TAG meetings book.

From 70712.3265@compuserve.com to the Marks II Library Archive 1991
 Received: from ihb.compuserve.com by milton.u.washington.edu
 (5.65/UW-NDC Revision: 2.1) id AA24494; Thu, 10 Oct 91 12:00:13 -0700
 Received: by ihb.compuserve.com (5.65/5.910516)
 id AA00076; Thu, 10 Oct 91 15:00:20 -0400
 Date: 10 Oct 91 14:49:23 EDT
 From: Rick Gilmore <70712.3265@CompuServe.COM>
 To: bradley <bradley@ivy.princeton.edu>,
 Deb <deb%virginia.bitnet@cunyvms.cuny.edu>,
 Etzanako <etzanako@elbereth.rutgers.edu>,
 Farhat <farhat@pender.ee.upen.edu>,
 JMTien <jmtien%rpitsmts.bitnet@cunyvms.cuny.edu>,
 Karplus <karplus@cs.ucla.edu>, kris <kris@boulder.colorado.edu>,
 Kuh <kuh@wiliki.eng.hawaii.edu>, les <les@uw-isdl.ee.washington.edu>,
 MARKS <marks@milton.u.washington.edu>,
 t miller <t_miller@unhh.uhn.edu>, mwr <mwr@aplcomm.jhuapl.edu>,
 NAGOYA <d43131a@nucc.nagoya-u.ac.jp>,
 newcomb <newcomb@eneevax.eng.umd.edu>,
 rcel <rcel%aplvm.bitnet@cunyvms.cuny.edu>, rpl <rpl@sst.11.mit.edu>,
 rsn <rsn@coe.wvu.wvnet.edu>, sanchez <sanchez@ee.tamu.edu>,
 wer <wer@piedmont.mthcsc.wfu.edu>, wes <wes@mrips.bgsm.wfu.edu>,
 wes <wes2@milton.u.washington.edu>
 Subject: communications
 Message-Id: <911010184923_70712.3265_EHD63-1@CompuServe.COM>
 Status: RO

TO: Members of IEEE Neural Network Council
 FROM: Morgan Downey, Executive Director, International Neural Network Society
 RE: Interorganizational communication

Recent communications between the INNS and the IEEE have involved a number of different persons and various messages. It has been determined by INNS that the easiest way to facilitate accurate communications between our two organizations is if the IEEE Neural Networks Council would direct proposals or ideas to this office as they relate to interaction between the two organizations. I will then consult with the INNS leadership and relay a response.

We believe that this arrangement will maximize communications and enhance the dialogue between our respective organizations. In addition, it should relieve our voluntary leaders from time spent in routine communications.

Please feel to reach me via e-mail (70712.3265@compuserve.com), by phone (202) INN-INNS or fax (202) 466-3079. Thank you for your cooperation.

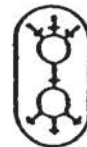
Distribution:

bradley >Internet:bradley@ivy.princeton.edu
 Deb >INTERNET:deb%virginia.bitnet@cunyvms.cuny.edu
 Etzanako >INTERNET:etzanako@elbereth.rutgers.edu
 Farhat >INTERNET:farhat@pender.ee.upen.edu
 JMTien >INTERNET:jmtien%rpitsmts.bitnet@cunyvms.cuny.edu
 Karplus >INTERNET:karplus@cs.ucla.edu
 kris >INTERNET:kris@boulder.colorado.edu
 Kuh >INTERNET:kuh@wiliki.eng.hawaii.edu
 les >INTERNET:les@uw-isdl.ee.washington.edu
 MARKS >INTERNET:marks@milton.u.washington.edu
 t miller >INTERNET:t_miller@unhh.uhn.edu
 mwr >INTERNET:mwr@aplcomm.jhuapl.edu
 NAGOYA >INTERNET:d43131a@nucc.nagoya-u.ac.jp
 newcomb >INTERNET:newcomb@eneevax.eng.umd.edu
 rcel >INTERNET:rcel%aplvm.bitnet@cunyvms.cuny.edu
 rpl >INTERNET:rpl@sst.11.mit.edu



IEEE

NEURAL NETWORKS COUNCIL



Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

September 20, 1991

Mr. Morgan Downey
International Neural Network Society
1250 24th Street, N.W., Suite 600
Washington, D. C. 20037

Dear Mr. Downey:

Your letter of September 19, 1991, a copy of which is enclosed as Appendix A, contains inaccuracies that should be addressed.

In the first paragraph of your letter, you state that "... this matter was referred to IEEE legal staff." That is not true. The matter was discussed with Dr. Irving Engelson, Director of Technical Activities at the IEEE, and was not (and has not been, as of today) referred to IEEE legal staff.

In your second paragraph, you "suggest that the appropriate IEEE legal counsel contact INNS General Counsel, Lawrence Hoffheimer, for further continuance of this discussion." Since IEEE legal counsel has not been involved in this matter, and we do not at this time intend to involve them, please do not expect any contact from them.

In your third paragraph, you refer to "... IEEE's threatened legal action against INNS and its President, Paul Werbos, ...". There is no legal action threatened by the IEEE against the INNS or Paul Werbos at this time.

The purpose of my telephone call to you yesterday was to alert you to the existence of several inaccuracies in widely distributed email from the President of the INNS, Dr. Paul Werbos.

I feel that the responsibility of professional societies in the neural network field is to serve their members and facilitate the development of the field. In this spirit, I trust that unrestricted oral and written communications among IEEE and INNS officers and members will continue.

Very truly yours,

A handwritten signature in cursive script that reads "Russell C. Eberhart".

Russell C. Eberhart

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

INTERNATIONAL NEURAL NETWORK SOCIETY

1250 24th Street, N.W.

Suite 600

Washington, DC 20037

Telephone: (202) INN-INNS

Fax: (202) 466-3079

September 19, 1991

OFFICERS:

President
Paul Werbos
National Science Foundation

Vice President
Judith Dayhoff
University of Maryland

Secretary
James Anderson
Brown University

Treasurer
Harold Szu
Naval Surface Warfare Center

BOARD OF GOVERNORS:

Shun-ichi Amari
University of Tokyo

Richard Andersen
Massachusetts Institute
of Technology

Gail Carpenter
Boston University

Leon Cooper
Brown University

Walter Freeman
University of California

Yihiko Fukushima
Osaka University

Lee Giles
NEC Research Institute

Stephen Grossberg
Boston University

Morris Hirsch
University of California

Christof Koch
California Institute of Technology

Bart Kosko
University of Southern California

Christoph von der Malsburg
University of Southern California

Demetri Psaltis
California Institute of Technology

David Rumelhart
Stanford University

Terrence Sejnowski
Salk Institute for
Biological Studies

Bernard Widrow
Stanford University

EXECUTIVE OFFICE:

Executive Director
Morgan Downey
General Counsel
Terrence S. Hoffheimer

MEMBERSHIP OFFICE

P.O. Box 491166
Fort Washington, MD 20744
(301) 839-2114

VIA Federal Express

Russell C. Eberhart
Program Manager
Biomedical Programs Office
The John Hopkins University
Applied Physics Laboratory
Johns Hopkins Road
Laurel, Maryland 20707

Dear Mr. Eberhart:

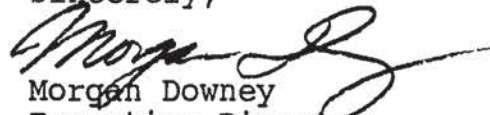
On September 19, 1991 you contacted me regarding an E-mail transmission by the President of INNS which you felt contained a number of misstatements. You indicated that you and/or Robert J. Marks, III had taken these concerns to the Institute of Electrical and Electronics Engineering, Inc. (IEEE) and that this matter was referred to the IEEE legal staff.

On advise of INNS General Counsel I was asked to inform you that any future discussions regarding this matter should be handled exclusively by legal counsel for the two organizations. I suggest that the appropriate IEEE legal counsel contact INNS General Counsel, Lawrence Hoffheimer, for further continuance of this discussion.

Additionally, I was advised to inform you that IEEE's threatened legal action against INNS and its President, Paul Werbos, has resulted in instructions to me and the INNS Board to cease any further direct discussions with officials at IEEE and its Neural Networks Council officers except as those communications relate to previously approved IJCNNs.

When this matter is resolved, which I personally hope is soon, we can resume our inter-organizational dialogue which is vitally important to the field.

Sincerely,


Morgan Downey
Executive Director

cc: Dr. Paul Werbos
Robert J. Marks, III

Trademark search

NNC Treasury Summary

Letter regarding surplus for Seattle IJCNN

IEEE Investment Asset Analysis

Neural Networks Transactions Editor's Report

July 1991 IOC meeting minutes



IEEE SERVICE CENTER

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, USA TEL. (908) 981-0060 TELEX 833233 FAX: (908) 981-0027

DIRECT NUMBER (908) 5623966

November 15, 1991

Prof. James C. Bezdek
University of West Florida
Computer Science Department
Pensacola, FL 32514

Dear Prof. Bezdek:

As Manager of IEEE Copyrights and Trademarks, I am charged with the responsibility for registering each new IEEE publication title. Since *IEEE Transactions on Fuzzy Systems* has recently been approved for publication, I thought now would be a good time to send you the enclosed title registration memo and form.

After you have read the memo, would you (or the appropriately authorized person) please complete the form and return it to me at your earliest convenience? Since we are interested in registering a new title, you only need to fill in parts 1, 2a, 3c, and 4-6. The enclosed memo should provide sufficient information, but please do not hesitate to call me at the above number if you should have any questions on this.

I look forward to hearing from you in the near future.

Sincerely yours,

A handwritten signature in cursive that reads "William J. Hagen".

William J. Hagen, Manager
Copyrights and Trademarks

Bob Marks:
I believe you need
to execute this and
return it to Hagen.
Jim Boydel
11/25/91



IEEE SERVICE CENTER

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, USA TEL. (908) 981-0060 TELEX 833233 FAX: (908) 981-0027

DIRECT NUMBER (908) 562-3966

MEMORANDUM

TO: IEEE Entities Interested in Registering Titles or Logos
FROM: William J. Hagen, Manager, IEEE Copyrights and Trademarks
SUBJECT: Title and Logo Registration

Registration is a legal means of asserting ownership of a mark which has **provably been in use "in commerce"** and of providing protection for that mark. While use is a prerequisite to obtaining a registration, it is **not** a prerequisite to filing a trademark application. In order to file an application, a party need only have a *bona fide* intent to use the mark in interstate commerce. However, a registration will not issue until such use takes place. The benefit of filing an intent to use application is that the applicant's filing date serves as its priority date, not the subsequent date of first use.

In the context of IEEE, the "mark" usually is a publication and/or conference title, an abbreviation or a special identifying design like the diamond-shaped IEEE logo at the top of this page. Unlike copyright registration -- a relatively simple process handled by this office and the U.S. Copyright Office -- a registration of a mark is a rather lengthy process handled by this office via our copyright and trademark attorneys Kenyon & Kenyon for a minimum of \$900. Registration via our attorneys includes filing an intent-to-use application (if appropriate) and a search to assure that the mark - or something confusingly similar - is not already in use.

IS REGISTRATION WORTH THE BOTHER? - For some conference and publication titles, especially those in fast moving and competitive areas, every kind of protection should probably be pursued. Registration presumably is a deterrent to the misuse of a mark and certainly provides significant defense if legal action against an infringer becomes necessary. Similarly, such registration will uncover any potential problems and avoid costly litigation.

ARE ALL TITLES REGISTERABLE? - No. Many IEEE titles are made up of what our attorneys call "words of art." This means words or phrases so commonly used in a particular discipline that they have descriptive value only and usually can't be uniquely owned.

WHAT ABOUT ABBREVIATIONS? - An abbreviation may be registerable even if a full title isn't. Registration of an abbreviation doesn't protect the words which have been abbreviated and it locks the sponsor into an obligation to use the registered abbreviation if the sponsor wishes to maintain the benefits of registration, although this does not preclude the sponsor from all use of the full title.

WHAT ABOUT LOGOS? - Logos may be used and registered as trademarks or service marks if they are not likely to cause confusion with any other mark. Like all other marks, a logo must be provably used or a party must have a *bona fide* intent to make such use before an application to register the logo may be filed.

HOW LONG DOES IT TAKE? - At least six months from the filing date. A search (possibly with complications) prior to filing can add two-three weeks.

ARE OTHER FORMS OF PROTECTION AVAILABLE? - Yes. For example: 1) Common law protects titles and logos which are in use, even if they are not registered. 2) The longer continuous and unchanged use can be proved, the stronger the protection. 3) The use of "IEEE" in the title of a conference and on the conference publication offers excellent protection. The stronger the tie to IEEE, the greater the protection. 4) Especially for those conferences seeking extra protection, a signed document is recommended in which the volunteers in charge of a conference and/or publication agree formally that they recognize IEEE's ownership of the conference and/or publication. (For assistance on wording such an agreement, please call me at the above number. There will be careful coordination with TAB or other departments whenever appropriate.)

WHAT ELSE IS IMPORTANT? - Close cooperation between Publishing Services and the sponsor of the mark is essential. Specific information on the type of use and first date of use will be required from the sponsor as will samples of the mark and, in the case of a design, an original drawing. Because of the information and material required and the time and money involved, we will need a signed agreement for each item to be registered. (See attached.) Also, because the registration process is lengthy and can require a number of go/no go decisions along the way, we will also need one authorized (and willing!) contact to speak for each entity. Publishing Services will reciprocate by providing efficient and courteous service, by maintaining careful records and files, and by being available for help and advice should it be needed in the future.

RECOMMENDED PROCEDURE

1. Invite all involved in making the decision on what or how to register to read both this memo and the attached form. (Copies will be sent on request to anyone you specify.)
2. If you would like a preliminary decision as to whether or not something is registerable, call or write this office and we will get a reading from our attorneys.
3. Note that, in addition to the financial commitment you will be making on behalf of your entity, registration also results in an obligation to use the registered mark continuously, carefully and without substantial change if you wish to obtain the full legal benefit of a registration.
4. When you know precisely what you want to register, which of the two registration procedures best suits your needs, have agreed upon a contact Publishing Services can reliably call on when necessary and have whatever information and samples are needed, fill out the form and send it to this office along with appropriate attachments.
5. We will acknowledge receipt and from that point will keep the contact (and any others specified) informed of the progress of the application.
6. All accounting will normally be handled internally with filing fees and attorneys bills charged against the appropriate account of the sponsoring entity. Let us know if further details will be needed and, if so, by whom.
7. When registration has been completed, all who need to know will be advised and information will be given on the future use of the mark.

REGISTRATION AGREEMENT PROCEDURE: The IEEE entity wishing to federally register a mark is asked to read the IEEE Publishing Services memo on Title and Logo Registration and to fill out the form below and on the reverse of this sheet inserting appropriate information and attaching appropriate material. The completed agreement, signed by someone authorized to commit funds, should then be returned to William J. Hagen, Manager, Copyrights and Trademarks, IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331. Telephone: (908) 562-3966. Mr. Hagen will also sign a copy and return it to both the person signing and the person designated as Publishing Services' contact.

REGISTRATION AGREEMENT BETWEEN

The Institute of Electrical and Electronics Engineers, Inc.

and

1. _____
(please print/type the name of the IEEE sponsoring entity)

2. The above named IEEE ENTITY, having been informed by IEEE Publishing Services on the cost, time and procedures involved in the registration process, wishes to register the mark noted or described below:

a. The mark (in its entirety as used or intended to be used) printed below:

OR

b. The design described below and depicted in the **attached** black on white drawing (submitted flat on 8.5 x 11 sheet). (Please check first with Mr. Hagen if a particular color or colors are to be an integral part of the design.)

(please describe the design)

3. a. If the mark has been used, the approximate date of the first use and the approximate date of first use in interstate commerce, and manner of use of this mark were:

(approximate date of first use and date of first use in commerce)

(manner of use)

b. A brief description of the continuous (UNCHANGED) use from "first use" to the present follows and a reproducible sample of the current use on a specimen (in the form of a tag, label, etc.) is attached. If the mark is used in connection with a service, a brochure, newsletter, flyer, etc. depicting this use is attached. (Please advise if help is needed.)

(please describe continuous use)

c. If the mark has not been used, an application may be filed if the IEEE ENTITY has a *bona fide* intention to use the mark in interstate commerce. Please initial here if this is the case: _____

4. A brief description of the goods and/or services in connection with which the mark has been or is intended to be used follows:

(please describe goods and/or services)

The method by which Publishing Services will pursue registration is via IEEE attorneys at a minimum cost of \$900. This includes application fees, the search fee, registration fees, and attorney's fees.

5. The IEEE ENTITY has authorized the person whose name, address and phone number appear below to act on its behalf throughout the registration process as Publishing Services' contact and has obtained this person's agreement to act as contact:

(name, address and phone no. of authorized contact)

6. The authorized signature on behalf of the IEEE ENTITY will be understood as an agreement that the entity: a) has all necessary approvals to authorize this registration; b) will pay all appropriate bills; c) assures appropriate cooperation with Publishing Services via authorized contact; and d) will follow carefully the protocols of registration once registration has been achieved.

AUTHORIZED SIGNATURE ON BEHALF OF IEEE ENTITY

(signature)

(printed name)

(IEEE title)

(date)

7. The authorized signature on behalf of IEEE PUBLISHING SERVICES will be understood as an agreement that Publishing Services will: a) follow carefully the reasonable instructions of the ENTITY and its contact; b) check with that contact on each step of the registration process for possible go/no go decisions; c) follow carefully any instructions from IEEE attorneys; d) maintain careful logs and files; and e) assure that help and advice will be available should registration questions or problems arise in the future.

AUTHORIZED SIGNATURE ON BEHALF OF IEEE PUBLISHING SERVICES

(signature)

(printed name)

(IEEE title)

(date)

**IEEE SERVICE CENTER**

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, USA TEL. (908) 981-0060 TELEX 833233 FAX: (908) 981-0

DIRECT NUMBER (908) 5623966

January 27, 1992

Mr. Patrick K. Simpson
Accurate Automation
1548 B Riverside Drive
Chattanooga, TN 37406

SUBJECT: International Conference on Fuzzy Systems

Dear Mr. Simpson:

A trademark search on the above title has been completed and the results have just now been received at my office. I have attached a copy of our attorney's cover letter which accompanied the search results. Basically, what he is saying is that, while no similar title has been registered previously (and we can, therefore, use the title without fear of inadvertently infringing on someone else's registered title), it is doubtful the Patent and Trademark examiner would allow the registration of such a descriptive or general title.

Our attorney would be happy to pursue this to the very end, even while admitting at the outset that it will probably all be for naught (except for him -- his fee would still have to be paid). The question is: Does NNC want to pursue the registration of this title, as well as the International Conference on Neural Networks, if there is a strong legal opinion predicting an unsatisfactory outcome? Allow me to remind you that attorney's fees for the registration of a trademark is about \$1000 for each title.

I look forward to hearing from you at your earliest possible convenience. Please feel free to call at the above phone or fax me a message at 908/981-8062. As always, I am

Sincerely yours,

William J. Hagen, Manager
Copyrights and Trademarks

LAW OFFICES OF
KENYON & KENYON
 ONE BROADWAY
 NEW YORK, N. Y. 10004
 (212) 425-7200

FACSIMILE (212) 425-5288
 DOMESTIC TELEX 422141
 INTERNATIONAL TELEX 428719
 CABLE: AMAXIA

WASHINGTON, D. C. OFFICE
 1025 CONNECTICUT AVENUE, N.W.
 WASHINGTON, D. C. 20036
 TELEPHONE (202) 429-1770

January 22, 1992

PHILIP G. HAMPTON, II*
 JOHN J. KELLY, JR.
 LYNN DARGY

PHILIPPE BENNETT
 WALTER SCOTT
 RICHARD S. GRESALFI
 RICHARD M. ROBATI
 STEVEN J. LEE
 HOWARD J. SHIRE
 MICHAEL D. LOUGHNANE
 FELIX L. D'ARIENZO, JR.
 STUART D. BENDER
 WILLIAM A. TANENBAUM
 JOHN E. TSAYARIS, II
 ANDREA H. SCHEIDT
 FRANK PIETRANTONIO*
 ALLEN J. BADEN
 THOMAS F. MEAGHER
 JEAN BARISH
 SUSAN M. SCHMITT
 CHARLES W. CALKINS*
 VICTOR F. SCUTO
 C. SCOTT TALBOT*
 JOHN FLOCK
 SCOTT A. BROWN*

ROBERT F. PERRY
 CHRISTINE H. TSAI
 DONNA M. PRAISE
 THOMAS J. MELORO
 WAYNE M. KENNARD
 MONICA V. FRANKLIN
 KAREN J. KRAMER
 ROBERT J. RANDO
 FREDERICK H. REIN
 JAMES E. GERINGER
 JOSEPH F. NICHOLSON
 PAUL R. MORICO
 RICHARD L. HAHN
 GERARD A. MESSINA
 DANIELLE B. LAIBOWITZ
 DONNA L. ANGOTTI
 JAMES PRIZANT*
 LORA A. NOFFATT
 PATRICK J. FAY
 BRENDAN M. MULSHIN
 SUEANNE M. PARKER*
 MARIA L. PALMERE

FRANCIS T. CARR
 HUGH A. CHAPIN
 RICHARD A. HUETTNER
 EDWARD W. GREASON
 WILLIAM T. BOLAND, JR.
 ROBERT D. FIER
 CHARLES R. BRAINARD
 KENNETH E. MADSEN
 RICHARD L. MAYER
 RICHARD G. KLING*
 DOUGLAS G. BRACE
 EDWARD J. HANDLER, III
 ROBERT T. TOBIN
 PAUL LEMPEL
 ALAN T. BOWEN
 PAUL M. NELLER
 THOMAS L. CREEL

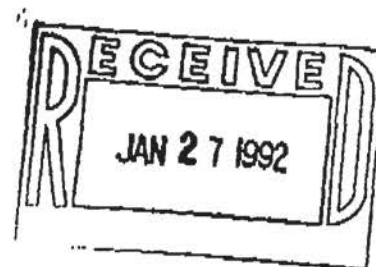
ARTHUR D. GRAY
 ALBERT J. BREISEISEN
 STUART J. BINDER
 GEORGE E. BADENCOCH
 JOHN C. ALTHILLER*
 MICHAEL J. LENNON
 PHILIP J. McCABE*
 JAMES GALBRAITH
 WALTER E. HANLEY, JR.
 RICHARD L. DELUCIA
 JAMES E. ROSINI
 EDWARD T. COLBERT*
 WILLIAM K. WELLS, JR.*
 JONATHAN D. REICHMAN
 SCOTT A. WISSER
 PATRICK J. BIRDE

CHARLES B. SPENCER
 CHARLES E. HEPNER
 JOHN M. ROMMEL*
 OF COUNSEL

DONALD K. DUVALL*
 COUNSEL

*RESIDENT, WASHINGTON OFFICE

William J. Hagen, Manager
 Copyrights and Trademarks
 Service Center
 The Institute of Electrical
 and Electronic Engineers, Inc.
 445 Hoes Lane, P.O. Box 1331
 Piscataway, New Jersey 08855-1331



Re: INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS

Dear Bill:

In accordance with your request, we have had a search made to determine if the above identified mark is available. I am enclosing a copy of the search results for your files.

After reviewing the results of the search, it appears that the proposed title is available for use by the Neural Networks Council.

We are not sure that the Patent and Trademark Office will accept the title for registration. We point out the results of the Common Law Library Report indicate that "Fuzzy Systems" is a term which is in widespread use as a descriptive or generic term. The addition of the generic words "International Conference" would not create a distinctive title which would be accepted for registration.

The material used to promote the conference appears to use "Fuzzy Systems" in a descriptive manner. In reviewing the material, the element that may be accepted for registration is "FUZZ-IEEE".

KENYON & KENYON

January 22, 1992
Page 2

After you have had a chance to consider the above,
please let me have your thoughts.

Very truly yours,

William T Boland Jr
William T. Boland, Jr.

NY1-L:\WTB\GE02\39327

12/31/91 NNC Cas Russ Eberhart Advance IJ Travel/Presid -5,594.4

NNC Treasury Summary
 1/ 1/91 Through 2/24/92

NNC-92-All Accounts
 2/24/92

Page

Date	Acct	Num	Description	Memo	Category	Clr	Amount
12/31/91	NNC Cas		Pat Simpson	Advance	Travel/Vice P		-1,200.0
12/31/91	NNC Cas		Stamatis Karto	Advance	Travel/AdComm		-600.0
12/31/91	NNC Cas		Roy Nutter	Advance IJ	Travel/Treasu X		-1,500.0
12/31/91	NNC Cas		Evangelia Tsana	Advance	Travel/AdComm		-1,500.0
12/31/91	NNC Cas		Robert MARKS	Advance IJ	Travel/AdComm		-3,000.0
1/13/92	NNC Tre		Robert Marks	Travel IEE	Travel/AdComm		-757.2
1/21/92	NNC Tre		Roy Nutter	Travel Exc	Travel/Treasu		-652.2
1/21/92	NNC Tre		Bernard Widrow	Pioneer Aw	Travel/Awards		-551.8
1/21/92	NNC Tre		Stephen Grossbe	Pioneer Aw	Travel/Awards		-1,519.0
1/28/92	NNC Tre		Pat Simpson	Excom Meet	Travel/Vice P		-549.9
2/ 4/92	NNC Tre		Russ Eberhart	TAB Financ	Travel/Presid		-376.0
2/11/92	NNC Tre		Russ Eberhart	Travel + I	Travel/Presid		-3,932.9
Total Travel for IEEE NNC							-21,734.9
Various Copying etc							
1/21/92	NNC Tre		Robert Marks	Expenses f other/Trans N			-216.3
Total Various Copying etc							-216.3
Expenses - Other							
12/31/91	NNC Tre		Opening Balance				0.0
Total Expenses - Other							0.0
TOTAL EXPENSES							-139,493.4
TOTAL INCOME/EXPENSE							-82,783.4
BALANCE FORWARD							
NNC Cash Assets							
12/31/91	NNC Cas		Opening Balance		[NNC Cash Ass		253,450.0
Total NNC Cash Assets							253,450.0
TOTAL BALANCE FORWARD							253,450.0
OVERALL TOTAL							170,666.0

NNC Treasury Summary
1/ 1/91 Through 2/24/92

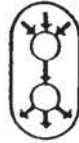
NNC-92-All Accounts
2/24/92

Page

Date	Acct	Num	Description	Memo	Category	Clr	Amount
INCOME/EXPENSE							
INCOME							
Advertising Income							
2/ 5/92	NNC	Tre	Elsevier Scienc	Half Page	Advertising/N		600.
2/ 5/92	NNC	Tre	Rose-Hulman Ins	Half Pg Ad	Advertising/N		600.
2/ 5/92	NNC	Tre	Fraklin Spier I	Half Pg Ad	Advertising/N		510.
Total Advertising Income							1,710.
Surplus Distribution							
2/ 4/92	NNC	Tre	IJCNN-91-Seattl	Preliminar	Surplus		55,000.
Total Surplus Distribution							55,000.
TOTAL INCOME							56,710.
EXPENSES							
Conference Advance							
12/31/91	NNC	Cas	FUZZ-IEEE-92 -8		Advance/FUZZ-		-30,000.
12/31/91	NNC	Cas	IJCNN-91-Singap		Advance/IJCNN		-20,000.
12/31/91	NNC	Cas	IJCNN-92-Baltim		Advance/IJCNN		-50,000.
2/11/92	NNC	Tre	FUZZ-IEEE-93	Preliminar	Advance/FUZZ-		-10,000.
Total Conference Advance							-110,000.
Long Distance Telephone							
2/ 6/92	NNC	Tre	Russ Eberhart	Phone Call	Telephone/Pre		-137.
Total Long Distance Telephone							-137.
Secretarial Support							
1/13/92	NNC	Tre	Robert Marks	Secretaria	Secretary/Pre		-5,905.
Total Secretarial Support							-5,905.
Travel Expense Advance							
1/13/92	NNC	Tre	Stamatios V. Ka	Advance fo	Travel Advanc		-1,000.
1/28/92	NNC	Tre	Robert Marks	Advance t	Travel Advanc		-500.
Total Travel Expense Advance							-1,500.
Travel for IEEE NNC							



NEURAL NETWORKS COUNCIL



Roy S. Nutter, Jr.
~~Chair, Meetings Committee~~
Treasurer

PLEASE REPLY TO:
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506 USA
Tel: (304) 293-6371, ext 23 510
FAX: (304) 293-5024
e-mail: rsn@a.coe.wvu.wvnet.edu

February 4, 1992

Marilyn Prusan
Finance Administrator
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Ms. Prusan:

Enclosed you will find check no. 146 for \$55,000 for preliminary distribution of the proceeds from the IJCNN-91 Seattle conference. Please credit this money to this conference.

If you have any comments or questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Roy S. Nutter".

Roy S. Nutter,
IEEE NNC Treasurer '92

RSN/ksrg
Encs.

cc: ✓ Russ Eberhart, NNC President
Pat Simpson, NNC Vice President
Robert Marks, NNC Past President

P.O. Box 751, Portland, OR 97207-0751

*Rec'd
2/3/92
R.J. Marks
CK #146*

January 21, 1992

Dr. Roy Nutter, Treasurer
IEEE Council on Neural Networks
821 Electrical Engineering
West Virginia University
P.O. Box 6101
Morgantown, West Virginia 26506

Dear Roy,

As you have no doubt been informed by Russ Eberhart, I am finally in a position to make a preliminary distribution of the proceeds from the IJCNN-91 Seattle conference.

As you can see, the conference ended up doing VERY WELL. The estimated profit is about \$125,000+. I won't know for sure until I get a final report and the balance of the funds from the University of Washington. I am now distributing \$55,000 to you and to INNS, plus returning the \$50,000 seed money to INNS.

I will forward a financial report when the final accounting is completed.

I'll see you in Baltimore in June (or perhaps in San Diego in March, if you are going to the FUZZ-IEEE meeting).

Sincerely,

George Lendaris
George G. Lendaris
Finance Chair, IJCNN-91 Seattle

IJCNN-91-SEATTLE		146
C/O GEORGE LENDARIS, FINANCE CHR, SYSC PO BOX 751 503 725-4988 PORTLAND, OR 97207		Jan. 20 1992 24-12/1230
<i>Pay to the order of</i> IEEE		\$ 55,000⁰⁰
<i>Fifty five thousand & NO/100</i>		<i>Dollars</i>
First Interstate Bank	First Interstate Bank of Oregon, N.A. Fifth and College Branch P.O. Box 229 Portland, Oregon 97207-0229	<i>First Rate Account</i>
<i>memo Prelim Profit Distribution</i>	<i>George Lendaris</i>	
⑆ 123000123⑆ 105 009106 5⑈ 146		

Rocky Mountain Bank Note



IEEE SERVICE CENTER

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, USA TEL. (201) 981-0060 TELEX 833233 FAX: (201) 981-0027

MEMORANDUM

TO Tab Finance Committee, Division Directors,
Society and Council Treasurers & Presidents

FROM Michael J. Sosa

DATE: 10-23-91

SUBJECT: IEEE SOCIETY/COUNCIL INVESTMENT ASSET ANALYSIS REPORT

Attached please find the Society/Council Investment Analysis Report for the month ended September 30, 1991.

We are enclosing a detail cash balance and net worth report for each Society and Council Treasurer and President.

If you have any questions, please do not hesitate to contact me.

MJS/bp

cc:

T. W. Bartlett
M. Prusan
T. Skrinnikov
T. M. Elliott
I. Engelson
E. Herz
B. Van Der Vort
C. Lof

Mike

H. Strickholm
T. Hissey
B. Wangemann
E. Rosenberg
D. Sethi
F. Aldana, TAB V.P.
H. Goldberg, TAB Treasurer
H. van de Vaart

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

IEEE SOCIETY ASSETS ANALYSIS AS OF 09/30/91

DATE: 10/14/91

DIVISION	CASH TOTAL	LOAN REC.	A/R MISC.	PREPAID EXPENSES	FIXED ASSETS	LOAN RET.	LONG TERM INVESTMENT	ASSET POSITION	SEPTEMBER OPEN CASH	SEPTEMBER CLOSE CASH	SEPTEMBER AVG. CASH	TREAS. BILL INT.	NOTES
TAB RESERVES (085)	581700	76300	180200	0	0	0	2705870	3544070	580100	581700	580900	2546	
CIRCUITS & DEVICES DIVISION:													
CIRCUITS AND SYSTEMS (004)													
COMPONENTS, HYBRIDS, & MANUFACTURING TECHNOLOGY (021)	595860	131400	40300	0	2200	0	202900	972660	654760	595860	625310	2741	ASSET POSIT
ELECTRON DEVICES (015)	43130	42800	69600	0	0	0	0	155330	85130	43130	64130	281	MONTH'S CLC
LASERS AND ELECTRO-OPTICS (036)	423540	239400	113800	0	2500	0	736050	1515290	517040	423540	470290	2061	LOANS, A/R.
SOLID-STATE CIRCUITS (037)	271580	0	114400	0	0	138200	307010	831190	454080	271580	362830	1590	
	428790	192300	15500	0	5900	0	333770	976160	527890	428790	478340	2097	NEGATIVE CH- WILL BE ASE PRIME PLUS
COMMUNICATIONS TECH DIVISION:													
BROADCAST TECHNOLOGY (002)													
CONSUMER ELECTRONICS (008)	204450	4000	0	0	0	0	0	208480	204480	204480	204480	896	
COMMUNICATIONS (019)	243240	40000	100	0	0	0	33320	316660	241340	243240	242290	1062	TOTAL CASH
VEHICULAR TECHNOLOGY (006)	1754220	221800	31400	14000	8600	184300	133470	2347890	1928820	1754320	1841570	8072	ON AVEFACE
	224820	22300	5400	1200	0	92100	33320	379140	182120	224820	203470	892	MONTH.
COMPUTER DIVISION:													
COMPUTERS (016)													
	219560	0	42500	0	0	0	0	262060	812460	219560	516010	2262	THE *ACTUAL RATE USED I CALCULATIO.
ELECTROMAGNETICS & RADIATION DIVISION:													
ANTENNAS & PROPAGATION (003)													
ELECTROMAGNETIC COMPATIBILITY (027)	358130	51200	43800	0	0	0	268960	720090	351030	358130	354580	1354	
MAGNETICS (033)	131280	22100	5300	0	1700	0	200280	360660	133680	131280	132480	381	
MICROWAVE THEORY & TECHNIQUES (017)	589210	33400	2800	0	0	0	200280	925890	709510	689210	694860	3046	
NUCLEAR & PLASMA SCIENCES (005)	455290	91500	50800	0	7000	138200	440840	1183630	538090	455290	496690	2177	
	773280	139500	25800	0	3000	0	135290	1076870	731180	773280	752230	3297	
ENGINEERING & HUMAN ENVIRONMENT DIVISION:													
EDUCATION (025)													
ENGINEERING MANAGEMENT (014)	(1160)	4500	3500	0	0	0	28970	35810	6540	(1160)	2690	12	
PROFESSIONAL COMMUNICATION (026)	163370	31800	100	2800	0	46600	60070	306740	190470	163370	177920	780	
RELIABILITY (007)	43220	9500	8000	900	0	0	90090	151710	49820	43220	46520	204	
SOCIAL IMPLICATIONS OF TECHNOLOGY (030)	56890	22500	0	1800	0	0	113470	70880	(54990)	(66890)	(60940)	0	
	38790	2500	0	0	0	0	41290	39990	38790	39390	39390	173	
INDUSTRIAL APPLICATIONS DIVISION:													
DIELECTRICS AND ELECTRICAL INSULATION (032)													
INDUSTRY APPLICATIONS (034)	26260	14100	19400	0	16100	46100	66790	188750	60460	26260	43360	190	
INSTRUMENTATION & MEASUREMENT (009)	544750	88000	47700	0	1700	92100	123420	897670	536150	544750	540450	2369	
POWER ELECTRONICS (035)	80030	55000	5600	0	1700	46100	230960	419390	102130	80030	91080	389	
	204840	113400	20700	0	1700	0	0	340440	208340	204840	206490	905	
ENERGY AND POWER ENGINEERING DIVISION:													
POWER ENGINEERING (031)													
	789200	65700	137900	0	0	460700	1003610	2457140	909430	789230	849330	3723	
SIGNALS & APPLICATIONS DIVISION:													
SIGNAL PROCESSING (001)													
AEROSPACE & ELECTRONIC SYSTEMS (010)	515170	53800	26600	0	3500	0	200280	799350	538470	515170	526820	2309	
GEOSCIENCE & REMOTE SENSING (029)	(115550)	14300	11000	0	0	0	309770	219510	(64160)	(115560)	(89660)	0	
OCEANIC ENGINEERING (022)	156590	37200	20700	1160	200	0	0	215700	186400	156500	171450	752	
ULTRASONICS, FERROELECTRICS, & FREQUENCY CONTROL (20)	167140	125100	48400	0	0	0	0	340640	116540	167140	141840	622	
	292570	51000	25900	0	0	92100	0	451570	324770	282570	303670	1331	
SYSTEMS & CONTROL DIVISION:													
CONTROL SYSTEMS (023)													
ENGINEERING IN MEDICINE & BIOLOGY (018)	517190	51000	13600	0	0	46100	534910	1162800	571390	517190	544290	2386	
INDUSTRIAL ELECTRONICS (013)	64760	155500	36400	0	3400	0	504290	766350	94860	64760	79810	350	
INFORMATION THEORY (012)	191020	22200	2200	0	0	0	0	215430	209130	191030	200080	877	
SYSTEMS, MAN, & CYBERNETICS (028)	189880	36500	20200	1700	2700	0	316580	563560	203480	185880	194680	853	
ROBOTICS & AUTOMATION (024)	168870	46000	4300	0	0	184300	200280	603750	180070	168870	174470	765	
NEURAL NETWORKS (011)	49340	2200	63000	0	4800	0	0	563440	503840	49340	498640	2184	
	166250	104100	1300	0	0	0	0	271650	165450	166250	175850	771	
SOCIETY TOTALS													
TREASURY BILL RATE 5.26% EFFECTIVE RATE 5.39%	12015690	2414100	1258200	23500	68600	1566900	9512650	26859840	13741290	12015690	12878450	57112	

1992 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

IEEE NEURAL NETWORKS (011)
CASH BALANCE AND NET WORTH POSITION
DURING THE PERIOD JANUARY 1, 1991 THROUGH SEPTEMBER 30, 1991
(IN THOUSANDS)

MONTH	NET WORTH JAN.1	PLUS CUMULATIVE		MONTH END NET WORTH	PLUS ACCOUNTS PAYABLE	PLUS DEFERRED INCOME	LESS ACCOUNTS RECEIVABLE	LESS LOANS RECEIVABLE	LESS PREPAID EXPENSES	LESS FIXED ASSETS	LESS LOAN RETIREMENT	LESS LONG-TERM INVESTMENTS	MONTH END CASH BALANCE
		REPORTED PROFIT & (LOSS)	INTER OFFICE TRANSFERS										
January	255.45	153.20	.00	408.65	.00	.000	.30	25.70	.00	.00	100.00	.00	282.65
February		124.40	.00	379.85	.00	.000	.00	24.70	.00	.00	100.00	.00	255.15
March		129.80	.00	385.25	.00	.000	.00	54.30	.00	.00	.00	.00	330.95
April		116.30	.00	371.75	.00	.000	3.90	104.30	.00	.00	.00	.00	263.55
May		95.00	.00	350.45	.00	.000	5.30	107.10	.00	.00	.00	.00	238.05
June		70.30	.00	325.75	.00	.000	2.10	108.80	.00	.00	.00	.00	214.85
July		60.30	.00	315.75	.00	.000	1.20	112.10	.00	.00	.00	.00	202.45
August		40.80	.00	296.25	.00	.000	1.30	109.50	.00	.00	.00	.00	185.45
September		16.20	.00	271.65	.00	.000	1.30	104.10	.00	.00	.00	.00	166.25
October													
November													
December													

IEEE NEURAL NETWORKS (011)
INVESTMENT ASSETS ANALYSIS
COMPARATIVE REPORT
(IN THOUSANDS)

MONTH	OPENING CASH	CLOSING CASH	AVERAGE CASH	T-BILL RATE (%)	NET ASSET VALUE PER SHARE (ACTUAL)	NUMBER OF SHARES (ACTUAL)	LONG TERM INVESTMENT VALUE
February 28	282.65	255.15	268.90	6.06	13.70	.000	.00
March 31	355.15	330.95	343.05	6.04	13.62	.000	.00
April 30	330.95	263.55	297.25	5.80	13.36	.000	.00
May 31	263.55	238.05	250.80	5.29	13.57	.000	.00
June 30	238.05	214.85	226.45	5.38	13.24	.000	.00
July 31	214.85	202.45	208.65	5.45	13.45	.000	.00
August 31	202.45	185.45	193.95	5.53	13.79	.000	.00
September 30	185.45	166.25	175.85	5.26	13.79	.000	.00
October 31							
November 30							
December 31							

LONG TERM INVESTMENT HISTORY:

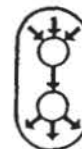
NONE



IEEE

TRANSACTIONS ON NEURAL NETWORKS

NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief
Transactions on Neural Networks

February 5, 1992

To: NNC AdCom Members
Subject: Statistics for the *IEEE Transactions on Neural Networks*,
September 1, 1991 to January 31, 1992.

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

◆ Submissions received	154
◆ Number of papers handled	307
◆ Accepted	
Papers*	45
Book Reviews	5
◆ Rejects	38
◆ In various stages of review	188
◆ In various stages of revision	29
◆ Geographical	
Australia	4
Belguim	4
Canada	17
China	5
France	3
Finland	1
Germany	3
Greece	5
Hong Kong	3
Korea	2
India	7
Israel	10
Italy	5
Japan	17
Mexico	1
Netherlands	6
Norway	1
Portugal	1
Singapore	3
Spain	2
Sweden	1
Switzerland	2
South Africa	6
Tiawan	9
Turkey	2
United Kingdom	15
United States	170
Yugoslavia	2

◆ Over 1100 Papers received since Transaction's introduction in 1990.

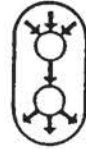
① Troy
② Rec. for Assoc. Editor

Robert J. Marks, Editor-in-Chief
IEEE Transactions on Neural Networks

* Including those in the May special issue on Hardware.



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief
Transactions on Neural Networks

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

February 3, 1992

To: NNC AdCom Members
Subject: **Conflict of Interest Policy**

1. Referee Requests

Authors may request that their paper's review not be coordinated by specific Associate Editors and that their papers not be reviewed by specified individuals. The Editor-in-Chief and Associate Editors will comply with all such requests deemed reasonable.

2. Papers by the Associate Editors & NNC AdCom Members

The Associate Editors of the *IEEE Transactions on Neural Networks* and members of the NNC AdCom are, by design, some of the world's premier researchers in the field of neural networks. It is therefore desirable and appropriate that they publish in the Transactions. In order to assure fair disinterested reviews of papers submitted by Associate Editors and AdCom members, the Editor-in-Chief will delegate review coordination and acceptance decision of papers submitted by Associate Editors to a third party whose identity will not be made known to the Associate Editor or AdCom member author. The third party will be responsible for coordination of the review and decision for suitability for publication.

3. Papers by Colleagues of Associate Editor & Referees

Associate Editors and Referees will immediately disqualify themselves from review of papers in which there exists the appearance or fact of a conflict of interest. This includes, but is not limited to, manuscripts authored by previous students, current or pending funding agents, advisors and members of their own institutions.

4. Papers by the Editor-in-Chief

Papers co-authored by the Editor-in-Chief will be submitted to an Associate Editor. The Associate Editor will assign editorial responsibility of the paper to a third party who, for that paper, will be responsible for coordination of the review and decision for suitability for publication. The identity of the third party will remain unknown to the Editor-in-Chief.

A large, stylized handwritten signature in black ink, appearing to read 'R.J. Marks II'.

R.J. Marks II, Editor-in-Chief
IEEE Transactions on Neural Networks

Minutes of the IOC Meeting held July 7, 1991, 2 PM at the Washington State Convention Center, Seattle, Washington

Present

IEEE

Roy Nutter*, Chair
Russ Eberhart
Irving Engelson
Toshio Fukuda
Karen Haines - ISSNNET
Walter J. Karplus*
Stamatios V. Kartalopoulos
Tong-Heng Lee - IJCNN Singapore
Robert Marks
Robert W. Newcomb*
Patrick K. Simpson
Ruth Wagner - Minutes recorder

INNS

Jim Anderson*
Judith Dayhoff*
Morgan Downey
Paul Werbos*

*denotes IOC member

The meeting was called to order at 2 PM by Roy Nutter, Chair. The attached agenda presented was adopted with the addition of a statement by ISSNNET entered as Item 7A.

The following corrections were made to the minutes of June 26, 1990: Simpson was present in a non-voting capacity, Rumelhart is spelled with one m. The following corrections were made to the minutes of January 25, 1991: The bottom of the chart was INNS Members (not NNC); while Bernie Widrow had made himself available by phone, the phones were not working; Jim Anderson, Lee Giles, and Don Brown were not present; Nick DeClaris, Toshio Fukuda were present; voting members for IEEE were Nutter, Karplus, Newcomb, and for INNS were Werbos, Dayhoff, Downey. **MOTION:** by Marks, seconded, to approve minutes as amended PASSED.

Note that attachment 4 to agenda (Agreement between IEEE and INNS) and attachment 5 to agenda (Dissolution of Agreement between IEEE and INNS) are for information.

Attachment 6 to agenda is a table for the coordination for IJCNNs, the primary purpose for this meeting.

IJCNN-89 - Chaired by Dr. Wes Snyder; Finance Chair, Nick DeClaris. Status report by Simpson: Audit closed out, copy sent to IEEE headquarters. Engelson reported that the outstanding \$2,000+ was received by IEEE. The audit shows that the total for the conference was split and this remaining money was due in total to IEEE.

ACTION ITEM: Simpson is to send copies of '89 audit and accompanying letters to Downey. This conference report is now closed.

IJCNN-90-DC: INNS lead. Simpson and Downey are working together to determine if 50K seed money was taken out of original expenses or post expenses. When that is determined there will be a distribution of between \$10 and \$35,000. To answer question of "was conference audited," Grant Thornton was responsible for financial review. There is a letter of statement from Thornton reflecting review of 70% of expenditures and disbursements in kind.

ACTION ITEM: IEEE (through Simpson) to receive a copy of final records - expenses deemed by Grant Thornton to confirm accounting procedures.

FUTURE AGENDA ITEM: Report on above.

IJCNN-90-San Diego: After the books for the conference were closed in December a letter was received from Prof. White of Berkeley requesting \$500 for slide copying and use of copyrighted material. It was an IEEE-led conference; therefore, Nutter suggested the matter be brought before the IEEE meetings committee.

IJCNN-91-Seattle: Projected attendance? Question of spending \$100,000 on advertising - was it worth it? Werbos has heard attendance is expected to be 1,100 to 1,200 and spoke to the difficulty of how to measure the impact of advertising in a situation like this and also the way money is spent, i.e. the style. In this case there was a large expenditure for an "unapproved" poster. He understands that registration was low when only 300 papers were accepted and that accepting more poster papers did increase the attendance. Simpson commented that the '90 conference spent \$45,000 for advertising and yet had similar number of papers.

IJCNN-91 (con't) Budget submitted for Seattle meeting, two subsequent requests for addenda to the budget. First was approved at AdCom Baltimore, the second was made in March or early April and letter 4/22 to Werbos specifically addresses this request which was made by electronic mail concern the fact that for the 400 rejected papers FAX was going to be sent out saying submit them as poster papers. This was the addenda to the budget requested. It was rejected by ExCom. Were these items addressed implemented in the IJCNN? Is an additional publishing budget of \$6,000-\$8,000 being advanced for the publication of the abstracts? Is the Meeting Management going to cost from \$2,500 to \$5,000 more? And will we be paying \$600 for poster boards and if so, how does this body propose to reconcile this in the budget?

Werbos reply: Deepest concern is about the advertising and how that related to financial accountability in our agreement and the rejection of all the 400 papers. "I would like it to be very firm and on the record and in the minutes that I completely agree with your concerns. In fact there are aspects in the management of this conference that, from my point of view are totally out of control because the management was set up before I even became President so we didn't have firm contracts. I believe some of these people were aware of the agreement. I know that Dave Rumelhart is aware of it because he had the agreement in his hand and he voted on it so the information was transmitted. The problem is that we didn't have a good enough enforcement mechanism... future IJCNN chairs will have to sign a contract and there are provisions for a tighter financial control. In terms of the 300 acceptance I also think that was a mistake for any number of reasons. That is the origin for an expanded budget. I do remember sending e-mail to Lendaris and Rumelhart saying you do need IEEE, they do seem to want publication, here are things you might do and I got an e-mail back saying we've already done this." Werbos asked how it was done - "we found a way to do the additional papers at no additional cost. They can be done within the printed budget." Urged Rumelhart to be cooperative in discussing cost of third volume and the additional posters and said... the Oversight Committee could override him. "That was the last I heard."

Abstracts are in the Proceedings. Extensive discussion on creating first class and second class papers; having some posters published, some not; (Motion on the floor) Eberhart commented that in his history there have never been financial constraints on publishing and there have been swings from 30 to 90 per cent. Usually a published paper has someone register to present the paper. Lendaris contacted the IEEE press and worked backwards from their costs to

the budget to how many papers could be published. Abstracts frustrate many because it's difficult to get a full paper most times.

Werbos: "In principle the idea of publishing more papers is one I would accept. My only reservation is specific economics which may have to be worked out on a case to case basis to try to get it straight. If we can put it together so the economics are favorable to publication, then I'm all in favor of publishing."

Suggestion: Can papers not sent to publishers be kept by the some organization so that if Abstracts are published than people could send to one place to get a copy of the paper.

MOTION: All papers accepted for presentation at IJCNNs be published in full.
Seconded.

Discussion followed: if you publish everything, you publish nothing as there is no screening and people wont' bother to read it. IEEE is currently indexing all papers for reference so there is concern that what is listed is worth being researched. Mistakes and copyright problems have to be filtered out if possible. INNS - no; IEEE (NNC) - yes. **MOTION FAILED**

Returning to item 3 in agenda re seed money - is it taken out by INNS before the surplus of a conference is determined?

Comment made that a paper trail should be left by having a check issued, deposited into the main account, then a check issued to the new conference. Werbos reconfirmed that the surplus seed money will be distributed in the surplus of the IJCNN. IJCNN-91 Singapore - AdCom delegated budget approval to ExCom. ExCom approved it with the tutorial budget in.

ACTION: Werbos and Downey need copies of the budget with the tutorials addendum.

Statement of concern was expressed by Marks about the parity of publicity in INNS publications and IEEE. INNS is not granting an equal amount of copy space. Camera ready copy was sent to Grossberg in Boston on March 23 by Lee.

FUTURE AGENDA ITEM: Werbos is requested to respond at the next IOC meeting.

ACTION ITEM: Budget approved by INNS.

Newcomb expressed concern that the past IJCNN Singapore conference did not notify authors when their papers would be presented in time to allow the authors to take advantage of cheaper air fares or when there were sufficient seats to allow flexible scheduling.

IJCNN-Baltimore - the initial budget was redone by Lau. Registration fees are lower than Seattle. For the record INNS Governing Board has approved the budget subject to the members registration fee being less than \$200. By consensus it was agreed to use 1400 as "best guess estimate" of attendance.

Haines pointed out that what students get at each conference with registration is inconsistent. Speaking for the students, they basically want proceedings with registration with no social events.

MOTION: All student registrants at IJCNNs shall receive the proceedings.
INNS - yes; IEEE (NNC) - yes. **MOTION PASSED**

There is also inconsistency about the way the expenses for the volunteer coordinator are

handled - at times reimbursement is easily handled, other times it is necessary to "scrounge" for reimbursement.

MOTION: That we direct to all future Finance Chairs of IJCNNs that volunteer activity be included as a line item in the conference budget. Discussion on defining volunteer and student concluded that they are not the same. INNS - yes; IEEE - yes. MOTION PASSED

Haines concerned about the issue that volunteer participant fees cannot be waived. Can it be worked out between INNS and IEEE? Nutter wants to take it to the IEEE NNC Meetings committee first.

IJCNN-Beijing - scheduled for November, 1992. Amari went to Beijing and the Chinese are now listing three general co-chairs and 3 general program chairs. Sha is calling himself Organizing Chair, we call him General Chair. Wu and Amari are co-equal conference chairs; Zhong and Szu are co-equal program chairs. Isui is being listed with Zha. Eberhart is being listed as a co-general chair. Eberhart will meet with Sha to resolve these issues and that Sha alone be listed as General Chair. In China (and Russia) for every non-Chinese (or non-Russian fee), a portion goes into the Beijing custodial account and a portion into the conference account (a guarantee surplus account) in IEEE. With IJCNN probably providing seed money, the use of these accounts needs to be understood. The custodial account will accumulate funds for the Chinese to use for travel to future conferences.

IJCNN-93-Portland. An INNS lead. George Lendaris is chair. Two-year lead time, budget is needed now.

IJCNN-93-Nagoya. Fukuda reported: The original date of October 18-22 has a car race scheduled in Nagoya so the date was changed to October 25-29, 1993. Prof. Amari is Organizing Committee Chair; Fukuda is Steering Committee Chair; Fukushima (from Osaka) is Program Chair and (USA) is co-chair for continuity. The finance chair is yet to be named but will probably be a woman. The preliminary budget has been drawn up for 1,250; 1,500; 1,750; and 2,000 with a hope for 1,500 registrants. In the modest case (1,250) the income would be \$600,000 with a surplus of \$20,000 or for 1,500 the surplus would be \$60,000. A detailed budget will be presented in Singapore. (Preliminary budget attached)

Check on table:

IJCNN-89-Washington - Downey to receive copies of '89 audit and accompanying letters

IJCNN-90-DC - IEEE needs copy of document;

IJCNN-90-San Diego - complete

IJCNN-91-Seattle - preliminary audit 90 days after conference

IJCNN-91-Singapore - IEEE needs to approve new budget; need to include amendment passed in this meeting - Eberhart needs to send Tutorial addendum to INNS

IJCNN-92-Baltimore - IEEE 1,400 best guess estimate

IJCNN-92-Beijing - need some sort of written document specifying what is going to happen to that - INNS/Russ

IJCNN-93-Portland - we have no budget as yet - needed now

IJCNN-93-Nagoya- they need to provide an operating budget by October 1992

NEW BUSINESS

Marks: Letter dated 3/1/91 re International Conference on Artificial Neural Networks in Engineering to be held Nov. 10-12 in St. Louis from Marks to Werbos. Date is within 30 days of IJCNN (18-21). Agreement with INNS says activities will be 30 days apart for sponsoring. What is violated is second sentence "Both Societies must agree to cooperate on involvement in any major neural network conference activities held within 30 days of an IJCNN." Submit to Oversight Committee as a violation of our agreement. Ask INNS what has been done about withdrawing their sponsorship.

Werbos reply: Both IEEE and INNS heard about this through the publicity. INNS has many special interest groups; they frequently overestimate attendance ... "Since becoming President I have not authorized the co-sponsorship by INNS of any meeting" ... What happened in this case there was a local special interest group decided to act on its own. The question is can we set up legal procedures so that special interest groups are not allowed to hold local meetings - I tend to believe that a local special interest is something less than an international meeting. (Pointed out that the meeting is called International.)... "It is important to INNS to retain local special interest groups. INNS will need to make a point to communicate a schedule for the IJCNNs and the society obligations under those guidelines. The dissolution agreement specifies that the above is applicable when the projected attendance is 400."

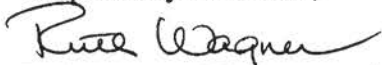
Point being made is that we don't want to schedule conferences when is held. Can't tell at local level what will happen. Also local and national events should not be advertised as international. Minutes should reflect that there is a concern that no major conferences be held within 30 days of an IJCNN.

The chair will turn over to INNS on January 1, 1992. Next meeting will be planned for Singapore.

Action Item: Werbos will need a letter of invitation to go to Singapore.

The meeting was adjourned at 5 PM.

Respectfully submitted,



Ruth Wagner, Minute recorder

Awards approval by TAB

Video Tutorial Committee report

1992 Baltimore IJCNN budget

FuzzIEEE '93 budget

FuzzIEEE '93 Meeting Management contract

World Congress '94 Meeting Management contract

Publications committee items:

- Advertising policy
- Conflict of interest
- Photocopy machine
- Stationery for Assoc. Eds.

Rostov-on-Don Symposium

Region 9 meetings

Nominations for 1993 NNC officers

Committee on Man and Radiation report

CD RomComCon report

List of duties for Chair of Meetings Committee



IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

(908) 562-

January 29, 1992

Dr. Russell C. Eberhart
Research Triangle Institute
PO Box 12194
Research Triangle Park, NC 27709

Dear Dr. Eberhart:

I am pleased to advise you that, at its November 1991 meeting, the IEEE Executive Committee approved the following proposals regarding your Society's awards:

Proposed Establishment of IEEE Neural Networks Council Pioneer Award
Proposal to establish award consisting of medallion and travel grant for honoree and companion to attend awards ceremony

Proposed Establishment of IEEE Neural Networks Council IEEE *Transactions on Neural Networks*
Outstanding Paper Award
Proposal to establish award consisting of certificate and \$500

This is the final step in the approval process. Additionally, as a result of revisions to IEEE Bylaws and Policies and Procedures, the Technical Activities Board now has authority to approve establishment of new awards and revisions to existing awards within established limitations in accordance with policy established by the Board of Directors. This will simplify the process for the future.

Sincerely,

David W. Braudaway
Chairman, TABARC

cc: R.J. Marks, II
B. Dickinson
M. Tickman
M. Kowalczyk



UNIVERSITY OF WASHINGTON

DEPARTMENT OF ELECTRICAL ENGINEERING, FT-10
SEATTLE, WASHINGTON 98195

*Mohamed A. El-Sharkawi, Professor
Energy Research Laboratory*

Telephone: (206) 685-2286
FAX Number: (206) 543-3842
Electronic Mail: elsharkawi@ee.washington.

Date: February 24, 1992

To: IEEE NN Ad. Com.

Subject: Video Tutorial Committee Report

The Video Tutorial Committee of the IEEE Neural Networks Council was formed in 1991. The main objective of the committee is to ensure that all tutorials sponsored by the Council are of the highest quality in terms of technical contents and video production. To achieve this objective, the following guidelines were established:

1. Tutorial speakers must be selected from among the most knowledgeable and talented in their field of research.
2. Material for the video tutorials will reflect pioneer research work, advanced concepts, or applications. Instructional tutorials are also an important component of our activities. The topics of the tutorials include neural networks, pattern recognition, fuzzy systems and control, and genetic algorithms.
3. The presentation material must be prepared professionally to ensure legibility and clarity.
4. Taping the tutorials will be done in a studio environment, and will be recorded and produced by professionals.

Mr. Peter Wiesner of the IEEE Educational Activities Board is in charge of coordinating the logistics of the video tutorials. The board will also be in charge of marketing the tapes.

The NN Council has budgeted up to five tutorials per year. The following is a summary of the 1991/1992 activities.

1. The three recipients of the IEEE Neural Networks Council Pioneer Awards (Stephen Grossberg, Teuvo Kohonen and Bernard Widrow) have been invited to participate. They all agree to make one tape each on the topic of their award. These video tutorials are currently in various stages of taping. We are planning to market these tutorials before the summer of 1992.
2. James Bezdek is coordinating a series of tutorials on "The theory and Applications of Fuzzy Logic." A copy of his proposal to Peter Wiesner is attached. This series on fuzzy logic is expected to be of high quality. I have approved the financing of three of the six tutorial lectures from Council funds. Two are debited to the 1991 budget, and one from the 1992 allocation. The other three are being financed by the IEEE Educational Activities Board.

Submitted by

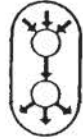
A handwritten signature in black ink, appearing to read "M. El-Sharkawi".

Mohamed A. El-Sharkawi

cc. Peter Wiesner
James Bezdek



NEURAL NETWORKS COUNCIL



Patrick K. Simpson
Treasurer

PLEASE REPLY TO:
General Dynamics, Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128 USA
Tel: (619) 573-2417
FAX: (619) 573-7400

August 30, 1991

Mary Ann DeWald
IEEE Conference Services
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Ms. DeWald:

The approval of the attached modification to the budget of the 1992 International Joint Conference on Neural Networks, being held in Baltimore, MD June 7-11, 1992 (see attached letter).

I hereby approve the modification of this budget.

If you have any questions or comments, please do not hesitate to contact me.

Sincerely,

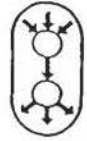
A handwritten signature in black ink, appearing to be 'PKS', with a horizontal line extending to the right.

Patrick K. Simpson

Attachments: Letter from R.J. Marks II (delegation of authority)
Letter and Revised Budget from C. Lau, IJCNN 92 General Chair

CC: Clifford Lau, ONR, IJCNN 92 General Chair
Patrick Shoemaker, NOSC, IJCNN 92 Finance Chair
R.J. Marks II, IEEE NNC President ←
R.C. Eberhart, IEEE NNC President-Elect
Paul Werbos, NSF, INNS President
Harold Szu, NSWC, INNS Treasurer
Morgan Downey, INNS Executive Director

PKS-90-91



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

August 20, 1991

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
17436 Ashburton Road
San Diego, Ca 92128

Dear Pat:

I delegate the authority to you to approve the attached revised budget. If approved, please forward to Mary Ann DeWald at IEEE Conference Services.

Sincerely,

A handwritten signature in cursive that reads "Bob Marks" with a small "II" below the name.

Robert J. Marks II, President
Neural Networks Council

Enclosure

c: R. Eberhart, NNC VP-elect
R. S. Nutter, NNC Treasurer-elect

August 6, 1991

Prof. Robert J. Marks
President, IEEE NNC
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dr. Paul Werbos
President of INNS
Div. of Electrical and Communication Systems
National Science Foundation, Room 1151
Washington, D. C. 20550

Gentlemen:

Enclosed for your consideration is a revised IJCNN'92 budget to reflect the guidance given to me by the IEEE and INNS during July. The changes include a line item (\$5,000) for the volunteers committee and a much lower Proceedings sales due to the fact that students will be given a copy. But I neglect to raise the cost of printing the Proceedings when all papers are printed including the posters.

With this budget, we will be barely breaking even with 1,200 attendance. Since the purpose of the Conference is to encourage communication and education in neural networks, and not to make a profit, I think the budget is workable although we may have to be very frugal on the dinner and reception.

Since these are minor changes in terms of the policy guidance from IEEE and INNS, I presume this revised budget would be approved as submitted, unless told otherwise.

Sincerely yours,



Clifford Lau
IJCNN'92 Baltimore
General Chair

IJCNN'92 Baltimore Preliminary Incomes

	A	B	C	D	E	F	G
1			Member	Non-member	Student		
2	Before April 20, 1992		\$245	\$285	\$75		
3	After April 20, 1992		\$295	\$335	\$90		
4	One day		\$100	\$120			
5	Tutorials -one	\$125					
6	-two	\$235					
7	- three	\$330					
8	Exhibitors (per booth)	\$950					
9	Publisher (per booth)	\$650					
10	Proceeding sales	\$80					
11							
12	Estimated attendees		1,200	1,400	1,600	1,800	2,000
13							
14	Early - member (25%)		\$73,500	\$85,750	\$98,000	\$110,250	\$122,500
15	Early - nonmember (10%)		\$34,200	\$39,900	\$45,600	\$51,300	\$57,000
16	Early - student (10%)		\$9,000	\$10,500	\$12,000	\$13,500	\$15,000
17	Late - member (25%)		\$88,500	\$103,250	\$118,000	\$132,750	\$147,500
18	Late - nonmember (20%)		\$80,400	\$93,800	\$107,200	\$120,600	\$134,000
19	Late - student (10%)		\$10,800	\$12,600	\$14,400	\$16,200	\$18,000
20							
21	Registration income		\$296,400	\$345,800	\$395,200	\$444,600	\$494,000
22							
23	One day income	4%	\$4,800	\$5,600	\$6,400	\$7,200	\$8,000
24							
25	Tutorial income - ave 2 ea	35% attar	\$98,700	\$115,150	\$131,600	\$148,050	\$164,500
26							
27	Exhibit income	40 booth	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
28							
29	Publisher income	10 booths	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
30							
31	Proceeding sales	500 cps	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
32							
33	Other Income (Int., etc.)		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
34							
35							
36	Total income		\$488,400	\$555,050	\$621,700	\$688,350	\$755,000

rec'd 8/12/91

IJCNN'92 Baltimore Preliminary Expenses Budget

	A	B	C	D	E	F	G
1	Estimated attendees		1,200	1,400	1,600	1,800	2,000
2	Marketing/promotion						
3	Poster printing		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
4	Brochure printing (75,000)		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
5	Two mailings		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
6	Advertisements		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
7	Public Relations		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
8							
9	Total Marketing		\$72,000	\$72,000	\$72,000	\$72,000	\$72,000
10	Social functions						
11	Sunday evening reception	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
12	Coffee breaks	\$20	\$24,000	\$28,000	\$32,000	\$36,000	\$40,000
13	Dinner banquet	\$50	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
14	Others (Press, etc)	\$2	\$2,400	\$2,800	\$3,200	\$3,600	\$4,000
15							
16	Total Social		\$98,400	\$114,800	\$131,200	\$147,600	\$164,000
17	Publications						
18	Review processing/ mailing		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
19	Proceedings (2000+attend)	\$30	\$96,000	\$102,000	\$108,000	\$114,000	\$120,000
20	Abstracts	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
21	Programs and tote bag etc.	\$13	\$15,600	\$18,200	\$20,800	\$23,400	\$26,000
22							
23	Total Publications		\$128,600	\$139,200	\$149,800	\$160,400	\$171,000
24	Meeting management exp.						
25	Management		\$39,000	\$39,000	\$41,200	\$45,600	\$50,000
26	Insurance/bonding		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
27	Security/guards		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
28	Administration and supplies		\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
29	Auditing		\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
30							
31	Total Management		\$67,000	\$67,000	\$69,200	\$73,600	\$78,000
32	Facilities/equipment						
33	Convention center rental		\$12,700	\$12,700	\$12,700	\$12,700	\$12,700
34	Exhibit management		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
35	Exhibit marketing		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
36	Audio/visual		\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
37							
38	Total Facilities		\$44,700	\$44,700	\$44,700	\$44,700	\$44,700
39	Committee expenses						
40	Tutorial speaker travel	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
41	Tutorial speaker fees	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
42	Tutorial books and supplies		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000
43	Tutorial audio/visual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
44	Tutorial coffee breaks		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
45	Plenary speaker travel	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
46	Contingency		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
47	Committee travel		\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
48	Volunteers Committee		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
49	Total Committee/tutorial		\$77,000	\$77,000	\$77,000	\$77,000	\$77,000
50							
51	Total Conf. Expenses		\$487,700	\$514,700	\$543,900	\$575,300	\$606,700

Rec'd 8/12/91

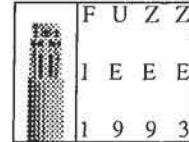
IJCNN'92 Baltimore Preliminary Budget

	A	B	C	D	E	F
1	Estimated Attendees	1,200	1,400	1,600	1,800	2,000
2						
3	Conf. Income	\$488,400	\$555,050	\$621,700	\$688,350	\$755,000
4	IEEE Seed Money	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
5						
6	Total income	\$538,400	\$605,050	\$671,700	\$738,350	\$805,000
7						
8	Conf. Expenses	\$487,700	\$514,700	\$543,900	\$575,300	\$606,700
9	Reimbursement to IEEE	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
10						
11	Total Expenses	\$537,700	\$564,700	\$593,900	\$625,300	\$656,700
12						
13	Net (income - expenses)	\$700	\$40,350	\$77,800	\$113,050	\$148,300

rec'd 8/12/91



SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
SAN FRANCISCO, CALIFORNIA, MARCH 28 - APRIL 1, 1993



Dr. Enrique H. Ruspini
General Chairman

PLEASE REPLY TO:
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park CA 94025
Tel.: [415] 859-2314
Fax: [415] 859-3735
E. Mail: ruspini@ai.sri.com

October 29, 1991

Prof. Robert J. Marks II
President, IEEE Neural Networks Council
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle WA 98295

Dear Bob,

I am enclosing herewith, for your examination and approval, the preliminary budget and other IEEE required documentation for the Second International Conference on Fuzzy Systems, planned to take place in San Francisco, California, from March 28 to April 1, 1993.

Although these documentation has not yet been formally submitted to the IEEE Technical Services Office, pending completion of certain documentation requirements (mandated by California banking laws) by that office, it is expected that such formalities will be completed within the next few days.

I am aware that you intend to present this information at the next scheduled meeting of the Executive Committee of the IEEE Neural Networks Council. Should you have any questions regarding these matters, please feel free to contact me at my office or, from November 8 to November 20, 1991, at the Hyatt Century Hotel, Tokyo, Japan.

Sincerely yours,


Enrique H. Ruspini
General Chairman, FUZZ-IEEE'93

Encl.: Copies of IEEE Conference Forms, Attachments

THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE INFORMATION SCHEDULE

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS

2. Dates of Conference MARCH 28 - APRIL 1, 1993

3. Location of Conference (full name and address) HYATT REGENCY SAN FRANCISCO, FIVE EMBARCADERO CENTER, SAN FRANCISCO, CA 94111

4. Estimated Attendance 720

5. Exhibits Yes No

6. Will there be a Conference publication? Yes No If yes, check one box below.
 Conference Record Other (explain)

IEEE ENTITY INVOLVEMENT

7. If IEEE entity involvement is either Sponsorship or Cosponsorship as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and their percent of financial share.

Entity IEEE NEURAL NETWORKS COUNCIL % 100

Entity _____ % _____

Entity _____ % _____

Entity _____ % _____

8. If IEEE entity involvement is either Participating or Cooperating as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and indicate the involvement of each.

Entity	Type of Involvement	
	Participating	Cooperating
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>
Entity <u>PLEASE SEE ATTACHED LIST</u>	<input type="checkbox"/>	<input type="checkbox"/>
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>

9. Has the Section within whose geographical boundaries the Conference is being held been notified? Yes No
If yes, who was contacted? LETTER SENT TO ROBERT FEIN, CHAIRMAN, S.F. SAN AREA COUNCIL

10. Has IEEE Conference Insurance form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telephone number.

CONFERENCE CHAIRMAN ENRIQUE A. RUSPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025

INFORMATION CONTACT NOHI FELDMAN Tel. No. (619) 453-6222
 Address MEETING MANAGEMENT, 5665 OBERLIN DRIVE, SUITE 110, SAN DIEGO, CA 92121

COMMITTEE MEMBERS

If available, please attach to this form a complete list of Conference Committee members, their titles, addresses and telephone numbers.

SUBMITTED BY:

Name ENRIQUE A. RUSPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025
 Conference Position GENERAL CHAIRMAN

SIGNATURE Enrique Ruspini Date 10-28-91

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART I: INCOME

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All income items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
 Dates of Conference MARCH 28 - APRIL 1, 1993

INCOME

REGISTRATION FEES	Quantity	Fee	=	Budget	Interim Report	Final Report
In Advance - Members	_____	x _____	=	\$ _____	\$ _____	\$ _____
In Advance - Nonmembers	_____	x _____	=	_____	_____	_____
In Advance - Reduced Rate	_____	x _____	=	_____	_____	_____
At Conference - Members	_____	x _____	=	_____	_____	_____
At Conference - Nonmembers	_____	x _____	=	_____	_____	_____
At Conference - Reduced Rate	_____	x _____	=	_____	_____	_____
Total Registrants	_____	Total	=	\$ _____	\$ _____	\$ _____

(SEE ATTACHED ITEMIZATION)

CONFERENCE PUBLICATION SALES	Quantity	Fee	=	Budget	Interim Report	Final Report
To Members	_____	x _____	=	\$ _____	\$ _____	\$ _____
To Nonmembers	_____	x _____	=	_____	_____	_____
To IEEE Hq.	_____	x _____	=	_____	_____	_____
Total Copies	_____	Total	=	\$ _____	\$ _____	\$ _____

EXHIBITS	Quantity	Fee	=	Budget	Interim Report	Final Report
Tables	_____	x _____	=	\$ _____	\$ _____	\$ _____
Booths	_____	x _____	=	_____	_____	_____
Booths	_____	x _____	=	_____	_____	_____
_____	_____	x _____	=	_____	_____	_____
Total	_____	Total	=	\$ _____	\$ _____	\$ _____

SOCIAL FUNCTIONS	Quantity	Fee	=	Budget	Interim Report	Final Report
(Itemize by event on separate sheets.)	_____	x _____	=	\$ _____	\$ _____	\$ _____
Total	_____	Total	=	\$ _____	\$ _____	\$ _____

ALL OTHER (List here or attach details.)	Quantity	Fee	=	Budget	Interim Report	Final Report
_____	_____	x _____	=	\$ _____	\$ _____	\$ _____
_____	_____	x _____	=	_____	_____	_____
_____	_____	x _____	=	_____	_____	_____
Total	_____	Total	=	\$ _____	\$ _____	\$ _____
TOTAL INCOME	_____	Total	=	\$ _____	\$ _____	\$ _____

NOTE: BE SURE TO ATTACH THIS FORM TO "PART II: EXPENSE" AND MAIL BOTH FORMS TOGETHER.

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART II: EXPENSE

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All expense items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS Dates of Conference MARCH 28 - APRIL 1, 1993

	Budget	Interim Report	Final Report
PROMOTION			
Printing / Call for Papers	\$ _____	\$ _____	\$ _____
Printing / Advance Program	_____	_____	_____
Printing / Final Program	_____	_____	_____
Mailing Lists / Labels	_____	_____	_____
Postage	_____	_____	_____
Other _____	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
CONFERENCE PUBLICATION			
Conference Record / Digest Printing	\$ _____	\$ _____	\$ _____
Author Kits Printing	_____	_____	_____
Shipping to Site and IEEE Hq.	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)	Total \$ _____	\$ _____	\$ _____
SOCIAL FUNCTIONS (Itemize event on separate sheets.)	Total \$ _____	\$ _____	\$ _____
ADMINISTRATION			
Insurance & Bonding	\$ _____	\$ _____	\$ _____
Security & Guard Service	_____	_____	_____
Projection Equip. Rent & Operator	_____	_____	_____
Management, Secretarial Services	_____	_____	_____
Office Equip. Rental	_____	_____	_____
Printing forms, Tickets, Stationery, Etc.	_____	_____	_____
Posters, Signs, Badges, Etc.	_____	_____	_____
Telephone	_____	_____	_____
Transportation	_____	_____	_____
Gratuities, Etc. (Attach details)	_____	\$ _____	\$ _____
Total	\$ _____	\$ _____	\$ _____
ALL OTHER			
Committee Expenses	\$ _____	\$ _____	\$ _____
Other (Attach Details)	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
TOTAL EXPENSES	\$ _____	\$ _____	\$ _____

(SEE ATTACHED ITEMIZATION)

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: U.S. DOLLARS

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars – at the current conversion rate – when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name ENRIQUE A. RUPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025
 Conference Position GENERAL CHAIRMAN

SIGNATURE [Signature] Date 10-28-91

NOTE: BE SURE TO ATTACH THIS FORM TO "PART I: INCOME" AND MAIL BOTH FORMS TOGETHER

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.



IEEE TECHNICAL ACTIVITIES
SUMMARY FINANCIAL REPORT FOR IEEE SPONSORED OR COSPONSORED CONFERENCES

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
 2. Dates of Conference MARCH 28 - APRIL 1, 1993
 3. Location of Conference (full name and address) HYATT REGENCY HOTEL, FIVE EMBARCADERO CENTER, SAN FRANCISCO, CA 94111

TYPE OF REPORT / CURRENCY USED

4. Indicate type of report by checking one box:
 Budget Interim Report Final Report

5. All income and expense figures below must be in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.

Local currency: U.S. \$ Conversion rate: _____ Date of conversion rate: _____

INCOME

	Budget	Interim Report	Final Report
6. Registration Fees	\$ _____	\$ _____	\$ _____
7. Conference Publication Sales	_____	_____	_____
8. Exhibits	_____	_____	_____
9. Social Functions	_____	_____	_____
10. All Other Conference Receipts	_____	_____	_____
11. Total Conference Income	_____	_____	_____
12. Advance Loans	_____	_____	_____
13. Total Receipts	\$ _____	\$ _____	\$ _____

(SEE ATTACHED ITEMIZATION)

EXPENSE

	Budget	Interim Report	Final Report
14. Promotion	\$ _____	\$ _____	\$ _____
Conference Publications	_____	_____	_____
15. Exhibits	_____	_____	_____
17. Social Functions	_____	_____	_____
18. Administration	_____	_____	_____
19. All Other Conference Expenses	_____	_____	_____
20. Total Conference Expense	_____	_____	_____
21. Loan Repayments	_____	_____	_____
22. Total Outlays	\$ _____	\$ _____	\$ _____

SURPLUS / (LOSS)

23. Total Receipts (13) \$ _____ 24. Total Outlays (22) \$ _____
 25. Surplus (Loss) - (Item 23 less Item 24) \$ _____

POST CONFERENCE DISTRIBUTION

Surplus (Loss) in Item 25 to be distributed as follows:

Cosponsor Entity	% Share	\$ Distributed
a. <u>IEEE NEURAL NETWORKS COUNCIL</u>	<u>100</u>	_____
b. _____	_____	_____
c. _____	_____	_____
d. _____	_____	_____
Surplus (Loss) \$		_____

CONFERENCE FINANCIAL INSTITUTION

Name of Bank _____
 Address _____
 Conference Account Title _____ Account No. _____
 Have you requested IEEE Conference Insurance? Yes No

SUBMITTED BY:

Name ENRIQUE A. RUSPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025
 Conference Position GENERAL CHAIRMAN

SIGNATURE

(Handwritten Signature)

Date 10-28-91

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

1992 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive
IEEE TECHNICAL ACTIVITIES



**IEEE CONFERENCE SERVICES DEPARTMENT
CONFERENCE PUBLICATION FORM.**

See reverse side for instructions on how to complete this form.

PLEASE NOTE: THIS INFORMATION IS REQUIRED IN ORDER TO INCLUDE THIS CONFERENCE RECORD IN THE IEEE BOOK BROKER PROGRAM FOR POST CONFERENCE SALES.

Parts A and B should be completed by the Conference Publications Chairman and returned no later than six (6) months prior to the conference to:

**IEEE CONFERENCE SERVICES, 445 HOES LANE, PISCATAWAY, NJ 08854
PHONE: (908) 562-3878 FAX: (908) 562-1571**

Please allow 4 weeks to obtain appropriate catalog & identification numbers from IEEE Headquarters.

Part A CONFERENCE PUBLICATION INFORMATION

1. Full Title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
2. Dates of Conference MARCH 28-APRIL 1, 1993
3. Location of Conference (full name & address) HYATT REGENCY, FIVE EMBARCADERO CENTER,
4. Financial Sponsors IEEE NEURAL NETWORKS COUNCIL / SAN FRANCISCO, CA
5. Non-financial IEEE Entities COMMUNICATIONS SOC., INDUST. ELECT. SOC., LASER & ELECTROOPT. SOC
6. Full Name of Publication as it Will Appear on Title Page SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS, SAN FRANCISCO, CA 1993 / INDUSTRIAL APPL. Soc
7. Scheduled Date of Publication 3/91
8. Est. Shipping Date to IEEE 3/91
9. Est. Pages 1300
10. Paper size 8.5 x 11
11. Volumes 2
12. Copyright: IEEE Other _____
13. Name & Address of Other Entity Holding Copyright N/A

Part B PRODUCTION/PRINTING/PAYMENT INFORMATION

1. Name & Address of Printer TBD
2. Tele. No. (area code) _____
3. Contact Person _____
4. Estimated Print Run: A _____ + B _____ = C _____
(A) Conference Registration + (B) Book Broker Purchase = (C) Total
5. IEEE PAYMENT FOR CONFERENCE PUBLICATION SHOULD BE SENT TO:
Name _____
Address _____
6. Publication Chairman _____
7. Address _____
8. Tele. No. (area code) _____
FAX No. (area code) _____
9. Date _____
10. Signature _____

Part C TO BE COMPLETED BY IEEE - DO NOT COMPLETE - INTEROFFICE USE ONLY

1. LC Cat. No. _____
2. IEEE Cat. No. _____
3. ISBN (soft) _____ (case) _____ (fiche) _____
4. ISSN _____
5. Copies Ordered _____
6. Copies Rec'd _____

Please keep a copy for your records



REQUEST FOR CONFERENCE INSURANCE

Regions 1-6
(Conference Held in USA)

Conference Insurance Office
IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 981-0060 Ext. 5404

The following coverage is in effect for the conference dates listed below. The form must be completed in full and received by the Conference Insurance Office with a list of the conference officers and committee members at least 90 days prior to the start of the conference.

Conference Name SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
Conference Dates MARCH 28 - APRIL 1, 1993
Conference Hotel or Center HYATT REGENCY, FIVE EMBARCADERO CENTER
Conference Location (City, State & Zip Code) SAN FRANCISCO, CA 94111
CONFERENCE IS FINANCIALLY CO-SPONSORED: Yes No

Co-Sponsor Name(s): _____

The coverage listed below (except In and Out Robbery) will be furnished to the conference at no direct charge except where additional coverage is requested.

BONDING: \$1,000,000 (\$2500 Deductible)
If more than \$1,000,000 is required, specify amount and attach explanation \$ _____

RENTAL OF EQUIPMENT: \$25,000 (\$250 Deductible)
If more than \$25,000 is required, specify amount and attach explanation \$ _____

LIABILITY & PROPERTY DAMAGE: \$1,000,000 and \$7,000,000 (No Deductible) umbrella liability.

LIMITED VOLUNTEER PERSONAL LIABILITY: \$1,000,000

A list of officer and committee members must accompany Request for Conference Insurance.

IN & OUT ROBBERY: (Optional - check box if desired): \$25,000 (\$2500 Deductible)

Note: There will be an approximate \$100 charge billed directly to the conference.

CONFERENCE WILL CHARTER: Bus Other (explain) N/A

See special note regarding transportation rental.

CERTIFICATE OF INSURANCE

You may be required to furnish evidence of IEEE Insurance to a third party. If so, indicate name and address of third party and their requirements. (Please type or print)

CONFERENCE CHAIRPERSON OR TREASURER - Please type or print the following information and sign this form.

Name ENRIQUE H. RUSPINI

Conference Title GENERAL CHAIRMAN

Address ARTIFICIAL INTELLIGENCE CENTER

SRI INTERNATIONAL

333 RAVENSWOOD AVE., MENLO PARK, CA 94025

Phone No. (415) 959-2314

Signature Enrique Ruspin

Date 10-28-91

FOR OFFICIAL USE ONLY

CONF DATE

Mo.	Date	Yr.

Date Rec'd _____

Date Ack _____

Off&Ctm List _____

Charter Cert _____

IN & OUT ROBBERY

- A&A Inv. Req. _____

- Inv. to Conf. _____

- Check to A&A _____

INSURANCE CLAIM

FILE COMPLETE

(PLEASE MAKE A PHOTOCOPY AND RETAIN FOR YOUR RECORDS)

IEEE Financial Report

Second IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'93)

March 28-April 1, 1993

Hyatt Regency Hotel , Five Embarcadero Center, San Francisco, California

Part I: INCOME

REGISTRATION FEES

MEMBERS

Registered before 11/2/92 120 \$295.00 \$35,400.00

Registered before 1/4/93 120 \$345.00 \$41,400.00

Registered at Conference 240 \$395.00 \$94,800.00

NONMEMBERS

Registered before 11/2/92 60 \$395.00 \$23,700.00

Registered before 1/4/93 30 \$445.00 \$13,350.00

Registered at Conference 30 \$495.00 \$14,850.00

STUDENTS

Registered before 11/2/92 30 \$75.00 \$2,250.00

Registered before 1/4/93 30 \$85.00 \$2,550.00

Registered at Conference 60 \$95.00 \$5,700.00

TOTAL REGISTRATION

720 **Total** \$234,000.00

CONFERENCE SALES

To members 30 \$50.00 \$1,500.00

To non-members 30 \$75.00 \$2,250.00

To IEEE Headquarters 450 \$30.00 \$13,500.00

TOTAL CONF. SALES

510 **Total** \$17,250.00

EXHIBITS

Booths/Publishers 5 \$750.00 \$3,750.00

Booths/All others 30 \$1,095.00 \$32,850.00

Total \$36,600.00

SOCIAL FUNCTIONS

Optional Tours (1)

TOTAL SOCIAL FUNCTIONS

\$0.00

ALL OTHER

Tutorial, one only 70 \$225.00 \$15,750.00

Tutorial 240 \$325.00 \$78,000.00

TOTAL OTHER INCOME

\$93,750.00

SEED MONEY ADVANCE

\$40,000.00

TOTAL INCOME:

\$421,600.00

	Qty.	Fee	Budget	Int Rept	Final Rept
REGISTRATION FEES					
MEMBERS					
Registered before 11/2/92	120	\$295.00	\$35,400.00		
Registered before 1/4/93	120	\$345.00	\$41,400.00		
Registered at Conference	240	\$395.00	\$94,800.00		
NONMEMBERS					
Registered before 11/2/92	60	\$395.00	\$23,700.00		
Registered before 1/4/93	30	\$445.00	\$13,350.00		
Registered at Conference	30	\$495.00	\$14,850.00		
STUDENTS					
Registered before 11/2/92	30	\$75.00	\$2,250.00		
Registered before 1/4/93	30	\$85.00	\$2,550.00		
Registered at Conference	60	\$95.00	\$5,700.00		
TOTAL REGISTRATION	720	Total	\$234,000.00		
CONFERENCE SALES					
To members	30	\$50.00	\$1,500.00		
To non-members	30	\$75.00	\$2,250.00		
To IEEE Headquarters	450	\$30.00	\$13,500.00		
TOTAL CONF. SALES	510	Total	\$17,250.00		
EXHIBITS					
Booths/Publishers	5	\$750.00	\$3,750.00		
Booths/All others	30	\$1,095.00	\$32,850.00		
		Total	\$36,600.00		
SOCIAL FUNCTIONS					
Optional Tours (1)					
TOTAL SOCIAL FUNCTIONS				\$0.00	
ALL OTHER					
Tutorial, one only	70	\$225.00	\$15,750.00		
Tutorial	240	\$325.00	\$78,000.00		
TOTAL OTHER INCOME				\$93,750.00	
SEED MONEY ADVANCE				\$40,000.00	
TOTAL INCOME:				\$421,600.00	

Part II: EXPENSES

PROMOTION:

	Qty.	Fee	Budget	Int Rept	Final Rept
Brochure printing			\$22,000.00		
Program/prod and printing			\$5,500.00		
Mailing lists and labels			\$5,500.00		
Postage			\$25,000.00		
Mailing house			\$7,000.00		
Advertising			\$16,500.00		
Conference Posters			\$2,500.00		
Other/Souvenir Items			\$8,500.00		

TOTAL PROMOTION \$92,500.00

CONF. PUBLICATION

Proceedings Printing (2)	1300	\$23.00	\$29,900.00		
Comm. w./auth./sess. chairs			\$3,000.00		
Shipping(Conference/IEEE)			\$1,100.00		

TOTAL PUBLICATIONS \$34,000.00

EXHIBITS

Signage			\$1,650.00		
Prospectus and Contract			\$1,100.00		
Furniture			\$3,000.00		
Comm. w. Exhibitors			\$1,100.00		

TOTAL EXHIBITS \$6,850.00

SOCIAL FUNCTIONS

Optional Tours (1)					
Org. Committee Breakfast			\$1,500.00		
Coffee Breaks/Tutorials			\$3,500.00		
Coffee Breaks/Committee			\$1,600.00		
Coffee Breaks/Conference			\$32,000.00		
Opening Reception			\$8,300.00		
Reception			\$23,500.00		

TOTAL SOC. FCTN. EXP. \$70,400.00

ADMINISTRATION

Insurance and bonding			\$100.00		
Security and guard service			\$8,000.00		
Audio-video rental and op.			\$7,500.00		
Mgt. Fee (Sliding Scale)			\$30,000.00		
Office Equipment Rental			\$2,000.00		
Pr.forms tickets, stat., etc.			\$1,400.00		
Signs, badges, etc.			\$3,000.00		
Telephone, FAX, Copying			\$2,500.00		
Regist. help / Bookkeeping			\$11,000.00		

Second IEEE International Conference on Fuzzy Systems

Registration supplies	\$800.00	
Contingency Fee Provision	\$10,000.00	
Prog. Committee Travel	\$12,000.00	
Chairman's Discr. Budget	\$15,000.00	
TOTAL ADMINISTRATION	\$103,300.00	
<u>ALL OTHER</u>		
Tutorials/Signage	\$1,650.00	
Tutorials/Notebooks (2)	\$7,300.00	
Tutorials/Audiovisual	\$1,500.00	
Tutorials/Honor./ Expenses	\$11,000.00	
Invited Speakers Expenses	\$10,000.00	
Audit	\$5,000.00	
Voluntary Help Expenses	\$5,000.00	
TOTAL OTHER EXPENSES	\$41,450.00	
<u>TOTAL EXPENSES</u>	\$348,500.00	
<u>LOAN REPAYMENT</u>	\$40,000.00	
<u>TOTAL OUTLAYS</u>	\$388,500.00	
<u>SURPLUS (LOSS)</u>	\$33,100.00	

NOTES:

- (1) Nonbudget item (To be offered separately)
- (2) IEEE Press Estimate (Ann Burgmeier)

Part III: SUMMARY**INCOME**

6. Registration Fees
 7. Conf. Pub. Sales
 8. Exhibits
 9. Social Functions
 10. All other conf. receipts

 11. Total conference income
 12. Advance loans
 13. Total receipts

Budget	Int Rept	Final Rept
\$234,000.00		
\$17,250.00		
\$36,600.00		
\$0.00		
\$93,750.00		
\$381,600.00		
\$40,000.00		
\$421,600.00		

EXPENSE

14. Promotion
 15. Conference Publications
 16. Exhibits
 17. Social functions
 18. Administration
 19. All other conf. expenses

 20. Total Conference Expenses
 21. Loan Repayments
 22. Total outlays

 23. Total receipts
 24. Total outlays

\$92,500.00		
\$34,000.00		
\$6,850.00		
\$70,400.00		
\$103,300.00		
\$41,450.00		
\$348,500.00		
\$40,000.00		
\$388,500.00		
\$421,600.00		
\$388,500.00		

25. SURPLUS(LOSS)

\$33,100.00		
-------------	--	--

Second IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'93)

Participating Societies:

Letters requesting involvement at the cooperating level have been sent to officers of the following societies:

IEEE Communications Society
IEEE Industrial Electronics Society
IEEE Control Society
IEEE Laser and Electro-Optics Society
IEEE Industrial Applications Society
IEEE Computer Society
IEEE Systems, Man, and Cybernetics Society
International Fuzzy Systems Association
North American Fuzzy Information Processing Society
Japan Society for Fuzzy Theory and Systems
IEEE San Francisco Bay Area Council

**Second International Conference on Fuzzy Systems
San Francisco, California, March 28 – April 1, 1993**

Conference Organizing Committee

General Chairman:

Dr. Enrique H. Ruspini
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park CA 94025
Tel.: [415] 859-2314 FAX: [415] 859-3735
E-Mail: ruspini@ai.sri.com

Technical Program Chairman:

Dr. Piero P. Bonissone
General Electric Corporate Research and Development
Building K-1, Room 5C32A
1 River Road
Schenectady NY 12301
Tel.: [518] 387-5155 FAX: [518] 387-6845
E-Mail: bonissone@crd.ge.com

Finance Committee:

Dr. Richard Tong (Chairman)
Advanced Decision Systems
1500 Plymouth Street
Mountain View CA 94043-1230
Tel.: [415] 960-7300 FAX: [415] 960-7500
E-Mail: rtong@ads.com

Prof. Roy S. Nutter
821 Electrical Engineering
University of West Virginia
Morgantown WV 26506
Tel.: [304] 293-6371 X510 FAX: [304] 293-5024
E-Mail: rsn@a.coe.wvu.wvnet.edu

Publicity Committee:

Dr. Hamid Berenji (Chairman)
Artificial Intelligence Research Branch
NASA Ames Research Center
MS 244-17
Moffet Field CA 94035
Tel.: [415] 604-6070
E-Mail: berenji@ptolemy.arc.nasa.gov

Prof. Bruce D'Ambrosio
Department of Computer Science
Oregon State University
Corvallis OR 97331
E-Mail: dambrosio@cs.orst.edu

Prof. Ramón López de Mántaras
Centro de Estudios Avanzados
CSIC
Cami de Santa Bàrbara
17300 Blanes, Girona, SPAIN
Tel.: [34] 72- 33 61 01
E-Mail: mantaras@ceab.es

Tutorials Committee:

Prof. James C. Bezdek (Chairman)
Computer Science Department
University of West Florida
Pensacola FL 32514
Tel.: [904] 474-2784
E-Mail: jbezdek@uwf.bitnet

Dr. Hamid Berenji
Artificial Intelligence Research Branch
NASA Ames Research Center
MS 244-17
Moffet Field CA 94035
Tel.: [415] 604-6070
E-Mail: berenji@ptolemy.arc.nasa.gov

Prof. Hiroyuki Watanabe
Department of Computer Science
University of North Carolina
CB # 3175 - Sitterson Hall
Chapell Hill NC 27599
Tel.: [919] 962-1817 FAX: [919] 962-1799

Exhibits Committee:

Dr. Masaki Togai (Cochairman)
Togai Infraclogic
5 Vanderbilt
Irvine CA 92718
Tel.: [714] 975-8522

Dr. Wei Xu (Cochairman)
Apronix Inc.
2150 North First Street, Suite 300
San Jose CA 95131
Tel.: [408] 428-1888 FAX: [408] 428-1884

Prof. Takeshi Yamakawa (Cochairman)
Faculty of Computer Science and Systems Engineering
Kyushu Institute of Technology
Kawazu 680-4
Iizuka, Fukuoka, JAPAN
Tel.: [81] 948-27-7712 FAX: [81] 948-28-5582

Prof. Llorenç Valverde (Cochairman)
Departamento de Matemática e Informática
Universitat de les Illes Balears
Ctra. de Valldemossa, Km. 7.5
07071 PALMA - MALLORCA, SPAIN
Tel.: [34] 17 32 44
E-Mail: dmilvg@cc.uib.es

Local Arrangements Committee:

Prof. Sergei Ovchinnikov
Department of Mathematics
San Francisco State University
San Francisco CA
Tel.: [415] 469-1387

5665 oberlin drive
suite 110
san diego
california
92121

(619)
453-6222
fax (619)
535-3880

February 5, 1992

SERVICES PROVIDED BY MEETING MANAGEMENT
FOR THE
FUZZ-IEEE '93 CONFERENCE

The following services will be provided by Meeting Management for the FUZZ-IEEE '93 Conference to be held March 29-31, 1993, in San Francisco, California.

A. Advance Planning

- (1) Work with Program Chair to develop timetable of dates and deadlines.
- (2) Work with the Program Chair to develop the meeting program format, its timing for publication and promotion and coordinate the proposed program with the available facilities.

B. Site Selection

- (1) Select best available hotel for the Conference, with particular attention to meeting space, sleeping accommodations and comfortable ambiance.
- (2) Negotiate best possible price for Conference and for registrants.

C. Conference Headquarters

- (1) Serve as secretariat address and office for the Conference.
- (2) Act as clearing center for all correspondence, telephone inquiries, and registrations.

Page Two
FUZZ-IEEE '93

D. Printing

- (1) Arrange for typesetting, graphic design, layout, and printing of mailers. The scientific program will be provided by Chair. Non-scientific copy, related information and registration forms, et al., will be provided and arranged by Meeting Management.
- (2) Arrange for all other printing such as Proceedings, invitations, programs, tickets, etc.
- (3) Design and prepare badges and tickets for social functions, signs, special information material, conference packets, subject to approval of Chair.

E. Mailing Lists

Select best sources of mailing lists with guidance of Chair.

F. Mailings

Handle all arrangements for mailings. Supervise completion of mailings.

G. Journals

Place announcements and advertisements in relevant journals. List of journals to be provided by Chair.

H. Advance Registration

Handle all advance registration procedures, including mailing confirmation letters, maintenance of records and accounts.

Page Three
FUZZ-IEEE '93

I. Registration On-Site

- (1) Supervise registration at the Conference. Prepare signs, badges, and hand-out material.
- (2) Provide message center for the Conference.
- (3) Hire registrars for registration desks for both advance and on-site registrations.
- (4) Be on-site for duration of the Conference to handle late registrations or any problems which may arise.

J. Hotel and Conference Arrangements

- (1) Instruct hotel on designation of space for conference rooms, exhibit space, registration area, message center, etc.
- (2) Arrange for coffee breaks, reception and dinner. Give hotel necessary guarantees.
- (3) Verify that adequate number of sleeping rooms are being held by the hotel.
- (4) Supervise performance of hotel personnel during entire Conference.

K. Audio-Visual Equipment and Projectionist

Arrange for audio-visual equipment and projectionists for all scientific sessions in accordance with each speaker's requirements.

L. Technical and Scientific Exhibits

- (1) Assist Exhibit Chair with solicitation of exhibitors.
- (2) Handle all arrangements for exhibitors, including designation of space, formation of booths, decorations, drayage, et al.

Page Four
FUZZ-IEEE '93

M. Call for Papers

- (1) Prepare Proceedings for printing. Program Chairs to provide camera-ready copy, including original papers, table of contents and author index.
- (2) Select printer and publisher on basis of competitive bids. Supervise publication.

N. Social Events

- (1) Arrange for adequate space, invitations, reservations, menus and guarantees for the reception and dinner.
- (2) Coordinate spouse sight-seeing tours, if desired.

O. Fiscal Responsibility

- (1) Receive and deposit advance and new on-site registration fees.
- (2) Provide at the end of the Conference a report listing:
 - a. Number of participants registered and amount of registration fees.
 - b. Accounting of all bills paid by Meeting Management listed by category.

P. Post-Conference Activities

- (1) Maintain office address for late mail, late bills and miscellaneous problems.
- (2) Save records for use in future conferences.

Page Five
FUZZ-IEEE'93

Compensation

The fee for the services listed in this proposal shall be \$22,000 for the first 700 participants and \$24 for each participant above 700. \$5,000 shall be paid on account upon your signing of this agreement and \$5,000 to be paid by November 16, 1992, and the remainder to be paid at the conclusion of the Conference by March 29, 1993.

Agency

It is understood that the relationship created is one of agent and principal and it is not intended, nor shall it be construed, to be joint venture with respect to the Conference. As your agent, I shall be empowered to make such contractual arrangements as are required to provide the services set forth above. You will indemnify your agent and hold it harmless against any and all damages, liabilities or causes of action, including reasonable attorneys' fees, incurred or arising through or proximately resulting from the faithful performance of its duties herein.

Liabilities

All expenses and liabilities incurred in the performance of the services set forth above including, but not limited to, printing, mailings, telephone services, employee wages shall be paid by the Conference. While it is anticipated that the Conference will break even, nothing herein contained shall be construed as a guarantee. Should the expenses exceed the income, the IEEE Neural Network Council will be expected to pay the excess.

Form of Agreement

This agreement constitutes the entire agreement between the parties pertaining to the subject matter contained in it and supersedes all prior or contemporaneous agreements, representations, modifications and understandings of the parties. Any supplements, modifications or amendments of the agreement will be binding only if executed in writing by all of the parties hereto.

Terms approved and agreed to:

Enrique H. Ruspini _____ Date _____
Conference Chairman

Nomi Feldman _____ *8/5/92*
Nomi Feldman Date
Conference Coordinator

5665 oberlin drive
suite 110
san diego
california
92121

1992 IEEE Neural Networks Council Document

Robert J. Marks II Library Archive
consultants and coordinators
conventions meetings

conferences
symposia

(619)
453-6222
fax (619)
535-3880

m e e t i n g m a n a g e m e n t

September 5, 1991

Robert J. Marks, President
IEEE Neural Networks Council
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dear Dr. Marks,

The following services will be provided by Meeting Management for the **1994 World Congress on Intelligent Systems**, which will include ICNN International Conference on Neural Networks, Fuzz-IEEE and Genetic Algorithms. The Congress will be held July 16-23, 1994, in Washington, D.C.

A. Site Selection

1. Select appropriate space for the Conference, with particular attention to meeting space, exhibit and poster area, sleeping accommodations and comfortable ambiance.
2. Negotiate best possible price for Conference and for registrants.

B. Advance Planning

1. Work with Program Chairs to develop timetable of dates and deadlines.
2. Work with the Program Committees to develop the meeting program format, its timing for publication and promotion, and coordinate the groups involved with the facilities available.

C. Conference Headquarters

1. Serve as secretariat address and office for the conference, before, during and after the meeting throughout the year.
2. Act as clearing center for all correspondence, telephone inquiries, registration, income/expenses, receipts, forms, etc.

D. Travel Arrangements

Negotiate with airlines for best price and service to the destination city. Arrange for complimentary flights for the speakers, if available.

E. Program Coordination

1. Coordinate with committees on design of special room arrangements for each session.
2. Contact speakers and session chairs to determine their specific audio-visual requirements and to communicate specific program instructions.
3. Arrange for audio-visual equipment and projectionists for all scientific sessions in accordance with each speaker's requirements.

F. Design and Printing

1. Receive program copy from Program Chairs. Assist in preparation of general copy and supervise printing for preliminary mailings.
2. Arrange for typesetting, graphic design, layout and printing of announcements.
3. Prepare and print advance registration cards and hotel reservation forms to be included in mailings.
4. Assist in the preparation of general copy and supervise printing of the Final Meeting Program.
5. Design, prepare copy and print final program, exhibit program, badges, tickets for the tutorials and social functions, signs, special information material, and conference packets, subject to approval of Committee.

F. Design and Printing (continued)

6. Arrange and supervise printing of Proceedings. Camera-ready papers will be provided by presenters. Type-setting of cover, table of contents and pagination will be arranged by Meeting Management according to IEEE requirements.

G. Mailings

Handle all arrangements for mailings. Negotiate with mailing house for best price and service. Supervise completion of mailings.

H. Mailing Lists

Select best sources of mailing lists with guidance of Chairs.

I. Journals

Place announcements and advertisements in relevant journals. Send announcements to secretaries of societies. List of Journals to be provided by Chair.

J. Technical and Scientific Exhibits

1. Assist Exhibit Chair with solicitation of exhibitors.
2. Handle all arrangements for exhibitors, including designation of space, formation of booths, decorations, drayage, et al.
3. Communicate with exhibitors regarding booth location, exhibit fees, exhibitor packets, name badges and designation of representatives for attendance to conference.

K. Proceedings

1. Receive abstracts/papers and forward to Program Chair for review. Process and log papers.
2. Send abstracts/papers to reviewers as indicated by Program Chair. Coordinate the review process.
3. Receive accepted or rejected abstracts from reviewers.

K. Proceedings (continued)

4. Send letters of acceptance or rejection to authors.
5. Prepare Proceedings for printing. Provide table of contents, author index, pagination and prepare Proceedings for printing.
6. Select printer and publisher on basis of competitive bids. Supervise publication and shipping to Conference site and appropriate number to IEEE headquarters.

L. Poster Sessions

1. Notify authors of day, time and location of their presentation, and send them instructions for the format of the posters.
2. Map the poster session area and obtain appropriate numbers of poster boards.
3. Provide poster numbers and necessary supplies.
4. Monitor poster sessions throughout the meeting.

M. Advance Registration

1. Develop systems and procedures for receipt and processing of advance registration forms.
2. Maintain accurate financial records of all advance registration income.
3. Prepare receipts, badges and packets for all registrants. Issue ribbons as appropriate.
4. Respond to requests for forms and information.

N. Meeting Site Arrangements

1. Reconfirm adequate meeting space with hotel.
2. Coordinate program elements and instruct hotel staff regarding exact floor layout, anticipated attendance, audio-visual equipment, signs and all other meeting requirements.

N. Meeting Site Arrangements (continued)

3. Arrange for sleeping rooms for VIP and speakers.
4. Arrange catering functions - determine per plate costs, plan menu and coordinate all catering activities.
5. Supervise performance of hotel personnel during entire conference.

O. Registration

1. Type badge for each current registrant and insert in badge cover.
2. Prepare information packet for each attendee which will contain badge, final program, exhibit guide, city information and any other material deemed appropriate.
3. Hire registrars, cashiers and typists for registration desks to distribute Conference packets to advance registrants, all exhibitors, and to process on-site registrants.
4. Provide city information and general hospitality service to registrants.
5. Provide message center.

P. On-Site Conference Management

1. Staff registration desks during the entire period of the conference.
2. Supervise the performance of the hotel during the entire duration of the meeting and resolve any problems arising during the conferences.
3. Supervise set-up and arrangements of booth set-up for the exhibitors.
4. Serve as a coordination point for Conference personnel. Organize, maintain and administer on-site Conference office.

P. On-Site Conference Management (continued)

5. Inspect meeting room set-up daily to verify that it is properly prepared in accordance with specifications.
6. Hire security guards and supervise their activities on site.
7. Work with local tour operators on social programs, if desired.
8. Display up-to-date lists of registrants and their affiliations.

Q. Social Events

Arrange for adequate space, transportation, guest lists, invitations, reservations, menus, guarantees, flowers, decorations, ticketing, overall coordination for events as scheduled.

R. Fiscal Responsibility

1. Assist Treasurer with preparation of conference budget.
2. Receive and deposit advance, current registration fees, tutorial fees and exhibit fees in a special bank account.
3. Deposit contributions, exhibit fees and Proceedings fees.
4. Approve bills for items ordered by Meeting Management.
5. Provide final report showing:
 - a. The number of participants registered and amount of registration fees received and outstanding.
 - b. Number of participants registered for the tutorials, amount of tutorials fees received and amount outstanding.
 - c. Number of exhibitors and fees received for exhibit booths.
 - d. Detailed account of all other income.

R. Fiscal Responsibility (continued)

- e. An accounting of all bills paid by Meeting Management listed by category as indicated in the budget.

S. Post Conference Activities

1. Maintain office address on a year-round basis for late mail, inquiries, etc.
2. Save records for use for following year.

Compensation

The fee for the services listed in this proposal shall be as follows:

ICNN:

\$43,000 for the first 1500 registrants and \$24 for each registrant above 1500.

Fuzz-IEEE:

\$22,000 for the first 700 registrants and \$24 for each registrant above 700.

Genetic Algorithms:

\$12,000 for the first 300 registrants and \$24 for each registrant above 300.

These amounts will be reduced by the hotel room commissions received by Meeting Management. An advance of \$10,000 shall be paid by July 1992, and an additional \$15,000 shall be paid by July 1993 with the remainder to be paid at the conclusion of the Conference, July 1994.

Agency

It is understood that the relationship created is one of agent and principal and it is not intended, nor shall it be construed, to be joint venture with respect to the Conference. As your agent, I shall be empowered to make such contractual arrangements as are required to provide the services set forth above. You will indemnify your agent and hold it harmless against any and all damages, liabilities or causes of action, including reasonable attorneys' fees, incurred or arising through or proximately resulting from the faithful performance of its duties herein.

Liabilities

All expenses and liabilities incurred in the performance of the services set forth above including, but not limited to, printing, mailings, telephone services, employee wages shall be paid by the Conference. While it is anticipated that the Conference will break even, nothing herein contained shall be construed as a guarantee. Should the expenses exceed the income, IEEE and the Council on Neural Networks will be expected to pay the excess.

Form of Agreement

This agreement constitutes the entire agreement between the parties pertaining to the subject matter contained in it and supersedes all prior or contemporaneous agreements, representations, modifications and understandings of the parties. Any supplements, modifications or amendments of the agreement will be binding only if executed in writing by all of the parties hereto.

Terms approved and agreed to:

Robert J. Marks, II
President, IEEE Neural Networks Council

Date

Nomi Feldman

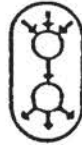
Nomi Feldman
President, Meeting Management

9/5/91

Date



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

February 1, 1992

NNC Publications Committee
Stamatios Kartalopoulos, Chair
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981

Dear Dr. Kartalopoulos,

Here is an item I request be considered at the upcoming Publications Committee meeting in San Diego.

Subject: Advertising Policy and Rates for Council Publications

Background: The Council currently has no policy concerning the placement of ads for meetings in our publications and, for Transactions, has no Advertising rates. Applicable IEEE policy is attached.

Motion:

- a. The Council newsletter will list all meetings brought to the attention of the newsletter Editor-in-Chief that deal with the *Field of Interest* statement of the Council.
- b. Council publications will carry free meetings advertisements only for conferences with which the Council has a cooperating, participating, co-sponsoring or sponsoring status. The publication Editor, with the consent of the Council President, however, may choose to charge for such advertisements.
- c. The Advertising rates of the Council's Transactions will be equal to those charged by the Council newsletter. The Council Treasurer will pursue approval of these rates by IEEE.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, Past President
IEEE Neural Networks Council

cc: Russ Eberhart, NNC President

6.7 - ADVERTISING IN IEEE PUBLICATIONS

Technical advertising is one of the major means of disseminating scientific information concerning electrical and electronics engineering and related fields. It does this by presenting for the engineering profession descriptions concerning the availability and capabilities of new or improved equipment, components, instruments and services. The presence of such advertising in a technical publication thus adds significantly to its usefulness and general attractiveness. The acceptance of advertising by journals of the IEEE and its predecessor societies and the use of the resulting income to support publication services and thereby

IEEE POLICIES AND PROCEDURES

further the dissemination of scientific information has a long tradition dating back more than half a century.

It is, therefore, entirely fitting that the IEEE should permit the inclusion of technical advertising in those of its publications where it is appropriate, as specified further below, subject to the following requirements and procedures.

The intent of these policies is to insure that the benefits afforded by such advertising are achieved within the bounds of good taste and in a manner consonant with IEEE's scientific and educational objectives. It is a further intent to establish a mechanism for maintaining and monitoring the balance among the sometimes conflicting elements of a vigorous advertising program. As a matter of policy, advertisers should not be approached to buy advertising in an Institute-wide publication from a feeling of responsibility to support the IEEE.

For the purposes of this policy statement, "advertising" is defined to mean display advertising. This statement is not intended to apply to institutional listings, which are regarded by the IEEE as acknowledgments of contributions supporting a particular publication activity rather than description of products or services.

A. All IEEE Publications (See also Policy Statement 13.3)

General Requirements:

- (1) The advertising should serve the reader of the publication. It should contain substantive technical content or be of informational usefulness to him.
- (2) The advertising should be appropriate to the publication and to the IEEE. The appearance and usefulness of the publication should not be impaired.
- (3) Advertising considerations should not be used as a criterion by the Editor or his staff in judging the merits of technical and editorial material for publication.
- (4) In the case of archival publications, the pagination should be such as to permit separation of advertising copy from bound volumes.
- (5) Authorization for an IEEE publication to carry advertising will be granted provided that, in the judgment of the Executive Committee of the IEEE, there would not result a condition that would cause an overall reduction of publication services to the IEEE membership.
- (6) When the sale of advertising requires the services of paid professional advertising salesmen, it will be handled

through the Institute staff for all publications having more than Regional distribution. Advertising may be sold through volunteer members if the advertising sales of other IEEE publications are not affected. Volunteer sales efforts should be fully coordinated with the Institute staff.

B. IEEE SPECTRUM and PROCEEDINGS OF THE IEEE

Additional Requirements: None

Procedures:

- (1) All advertising arrangements will be handled by the Institute staff.
- (2) The advertising rates will be set by the Institute staff, subject to Executive Committee approval.
- (3) The net income from advertising will revert to the general treasury of the Institute.
- (4) The Publications Board is assigned the responsibility of monitoring the suitability of the advertising and its adherence to the above requirements.

C. TRANSACTIONS, JOURNALS and NEWSLETTERS of IEEE Societies

Additional Requirements:

- (1) The potential net income from the advertising should be a significant fraction of the production cost of the publication which carries it.
- (2) For Society TRANSACTIONS and JOURNALS, advertising copy accepted should be in units such that editorial filler material is not needed.
- (3) The acceptance of advertising and Institutional listings in the same publication is permitted.

Procedures:

- (4) If advertising is to be sold through the Institute staff, the following procedures will apply:
 - (a) Society participation in the sales effort will be fully coordinated with the Institute staff.
 - (b) The advertising rates will be set by the Institute staff, in consultation with the Society Presidents concerned, subject to Executive Committee approval.

IEEE POLICIES AND PROCEDURES

- (c) The net income from advertising in a Society publication will be allocated at the discretion of the Executive Committee upon the recommendation of the Chairmen of the Technical Activities Board and Publications Board. A substantial fraction will be allocated to the Society involved for use in defraying publication costs.
- (5) If advertising is to be sold through volunteer members of a Society, the following procedures will apply:
 - (a) The Society will appoint a volunteer member to handle advertising sales, arrange for collections, coordinate advertising plans with the Institute staff, and see that publication requirements and schedules are met.
 - (b) The advertising rates and any subsequent changes thereto will be set by the Society Administrative Committee in consultation with the Institute staff, subject to Executive Committee approval.
 - (c) No advertising will be placed in a Society technical publication or newsletter unless authorized by its Administrative Committee. If a Society wishes to have advertising in its publication, it should submit for approval a proposal to the Executive Committee via the Publications Board and the Technical Activities Board. The proposal should include information on proposed advertising rates, starting date, budget, how the sales effort will be organized and operated, and the principal classes of advertisers that are anticipated.
 - (d) All advertising income will be credited to and expenses borne by the Society.
 - (e) A Society may discontinue advertising upon notifying the Publications Board and the Technical Activities Board.
 - (f) The Society shall report annually on procedures and results to the Publications Board and the Technical Activities Board.
 - (g) The Publications Board is assigned the responsibility of monitoring the suitability of the

advertising and its adherence to the above requirements.

D. Section Publications

Additional Requirements:

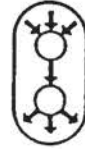
- (1) Advertising is permitted in Section publications on the basis that it provides a worthwhile service to readers in a particular geographical area and to advertisers, and that the publication's distribution and method of selling advertising is sufficiently localized so as not normally to interfere with the advertising programs of other Institute publications having more than Section distribution. However, Section publications containing advertising may be distributed to the members of more than one Section only with the approval of the other Sections involved and the IEEE Executive Committee.
- (2) An advertiser is free to buy advertising separately in two or more Section publications. However, two or more Section publications may sell advertising to the same advertiser at combination rates only with the prior approval of the IEEE Executive Committee.

Procedures:

- (3) All advertising arrangements will be handled by the Section or its designated agent. Sections may seek advice and help from the Institute staff on advertising matters.
- (4) The advertising rates will be set by the Section.
- (5) The net income from advertising will revert to the Section or its publication.
- (6) The Section Executive Committee is assigned the primary responsibility of monitoring the suitability of the advertising and its adherence to the above requirements.



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief
Transactions on Neural Networks

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

February 1, 1992

NNC Publications Committee
Stamatis Kartalopoulos, Chair
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981

Dear Dr. Kartalopoulos,

Here is an item I request be considered at the upcoming Publications Committee meeting in San Diego, and, subsequently, by AdCom.

Subject: *Resolution of Conflict of Interest*

Background: The Council provides a discretionary fund to the Editor of the *IEEE Transactions on Neural Networks* for secretarial and administrative support. Connie Lynn Marks, my wife, has been providing this service for the Transactions since September 1991. In order to avoid, in fact or appearance, a conflict of interest, financial reimbursement of relatives in volunteer activities must be approved by the Society or Council AdCom. I ask that the following motion be considered retroactive to September 1, 1991.

Motion: The *IEEE Neural Networks Council* does not construe as a conflict of interest the employment of Connie Lynn Marks in performance of administrative and secretarial duties related to the *IEEE Transactions on Neural Networks*.

Sincerely,

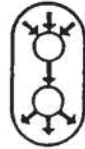
A handwritten signature in black ink, appearing to read 'Robert J. Marks II', with a stylized flourish at the end.

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks

cc: Russ Eberhart, NNC President



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief
Transactions on Neural Networks

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

February 1, 1992

NNC Publications Committee
Stamatis Kartalopoulos, Chair
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981

Dear Dr. Kartalopoulos,

Here is an item I request be considered at the upcoming Publications Committee meeting in San Diego and, subsequently, by AdCom.

Subject: *Photocopy Machine*

Background: All of the equipment I require for the running of the *IEEE Transactions on Neural Networks* has been obtained with through funds other than those of the Council. University of Washington policy prohibits, however, purchasing of photo copy machines with state controlled funds by professors. Since the Transactions is run from an office in my home, I have found it necessary to purchase a photo machine. I request reimbursement. The depreciation schedule in the motion was approved by ExCom at their November 1991 meeting.

Motion: Upon presentation of the original receipt, the Council will reimburse R.J. Marks II \$1832.90 for a Xerox photo copier (including a spare cartridges and a spare drum). Beginning on January 1, 1992, the machine will be depreciated as follows:

30%	first year
25%	second year
15%	third year
15%	fourth year
15%	fifth year

If R.J. Marks II is removed or resigns from the Editorship of the *IEEE Transactions on Neural Networks*, he agrees, at the request of the Council, to purchase the machine at the depreciated price. Alternately, the Council may choose to have the copy machine shipped, at their expense, to another center of Council activity.

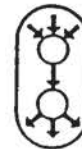
Sincerely,

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks

cc: Russ Eberhart, NNC President



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief
Transactions on Neural Networks

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

February 1, 1992

NNC Publications Committee
Stamatis Kartalopoulos, Chair
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981

Dear Dr. Kartalopoulos,

Here is an item I request be considered at the upcoming Publications Committee meeting in San Diego, and subsequently by AdCom.

Subject: *Stationary for Associate Editors*

Background: Attached is a letter from Ms. Maglori concerning stationary costs. I am requesting that the Publications Committee recommend to AdCom that each Associate Editor of the *IEEE Transactions on Neural Networks* be authorized to order 100 pages of personalized stationary each year. Currently, Associate Editors are given generic stationary on which they print their own addresses.

Motion: The Council approves supply of each Associate Editor of the *IEEE Transactions on Neural Networks* up to 100 copies of personalized stationary each calendar year.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks



IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

(908) 562-

To: Ruth Wagner
From: Elizabeth Maglori *em*
Subject: Stationery Prices
Date: January 30, 1992

Here are the charges we spoke about. The cost for printing 100 sheets of stationery is approximately \$20.00; the cost for printing 500 sheets of stationery is approximately \$39.25. The majority of the costs for printing consists basically of prep charges, and printing in larger quantities entitles you to quantity discounts. In addition to the printing charges, there will be a typesetting charge of approximately \$18.00 (for personalization).

The typesetting and printing charges combined for 500 personalized envelopes is approximately \$58.00. Unfortunately we do not provide printed/gummed labels for mailings.

I hope this answers your questions. If I can be of any other assistance, please do not hesitate to contact me.

IEEE TECHNICAL ACTIVITIES

IEEE CONFERENCE INFORMATION SCHEDULE

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full Title of Conference 1992 RNNS/IEEE Symposium on Neuroinformatics
2. Dates of Conference Oct 7 - Oct 10, 1992
3. Location of Conference (full name and address) Rostov-on-Don, Russia
4. Estimated Attendance 400 (50 from USA) 5. Exhibits Yes No
6. Will there be a Conference Publication? Yes No
- If yes, check one: Conference Record Other (explain) _____

IEEE ENTITY INVOLVEMENT

7. Enter below the names of all involved IEEE and non-IEEE entities and their percent of financial share. Identify IEI entity involvement as either Sponsor, Co-Sponsor, Participating or Cooperating as defined on the reverse side.

Entity	Type of Involvement				Percentage
	S	CS	P	C	
Entity <u>IEEE Neural Network Society</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% <u>US credits/debits handled by</u>
Entity <u>RNNS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% <u>Russian - 4-11-11-11</u>
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____

8. Has the section within whose geographical boundaries the Conference is being held been notified? Yes No
If yes, who was contacted? Juri Gulyaev - Head of Popov Society IEEE Moscow Section
Name Section
9. Has an IEEE Conference Insurance Form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telep number.

CONFERENCE CHAIRMAN Witali Dumin Borzkowski Tel.No. (8632) 280 57
Address Rostov State University, 194/1 Stachka Ave
Rostov-on-Don 344104, USSR Fax.No. (8632) 244 31

INFORMATION CONTACT Dmitry Kaplan hm Tel.No. (206) 747 5126
Address 3819 165th Pl SE
Bellevue, WA 98008-5859 Fax.No. (206) 892-9180

COMMITTEE MEMBERS

If available, please attach to this form a complete list of Conference Committee members, their titles, addresses, and telephone numbers.

SUBMITTED BY: Dmitry - see above Tel.No. _____
Address _____ Fax.No. _____

Conference Position Treasurer

SIGNATURE [Signature] - 206-392-9180 Date 2/23/92

RETURN TO: IEEE CONFERENCE SERVICES
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.
FAX: (908) 562-1571
KEEP A COPY FOR YOUR RECORDS

Committee members for 1992 RNNS/IEEE Symposium on Neuroinformatics:

Symposium Chair: Witali Dunin-Barkowski
International Chair: Robert Marks II
Program co-chairs: Alexander Frolov and Wesley Snyder
Local Committee Chair: Anatoly Kovalyov

Advisory Board: **Chair:** Jury Gulyaev
 Robert Hecht-Nielsen Robert Marks II
 Eduard Manykin Andrej Mikaelyan

Plenary Speakers:
 R. Hecht-Nielsen M. Ito
 A. Kalyaev T. Kohonen

Program committee:

A. Amit	S. Amari	J. Bezdek
R. Borisyuk	J. Bower	G. Carpenter
A. Chernavsky	R. Eckmiller	N. Farhat
T. Fukuda	A. Gorban	A. Gutman
M. Ito	M. Klenin	R. Newcomb
A. Petrov	L. Podladchikova	I. Rybak
P. Simpson	J. Taylor	S. Thomas
A. Vedenov	V. Yachno	



REQUEST FOR CONFERENCE INSURANCE

Regions 7-8-9-10
(Conferences Held Outside USA)

Conference Insurance Office
IEEE Service Center
445 Hoos Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(908) 981-0060 Ext. 5404
FAX (908) 981-0027

The following coverage is in effect for the conference dates listed below. The form must be completed in full and received by the Conference Insurance Office with a list of the conference officers and committee members at least 90 days prior to the start of the conference.

Conference Name 1992 RNNS/IEEE Symposium on Neuroinformatics
Conference Dates Oct 7 - Oct 10, 1992
Conference Hotel or Center TBA
Conference Location (City & Country) Rostov-on-Don, Russia

BONDING \$500 Deductible	\$ 100,000
RENTAL OF EQUIPMENT \$500 Deductible	\$ 5,000
MONEY & SECURITIES - IN & OUT ROBBERY \$500 Deductible	\$ 25,000
LIABILITY & PROPERTY DAMAGE	\$1,000,000
LIMITED VOLUNTEER LIABILITY Covers volunteers while acting within the scope of his duties, only for the duration of the conference.	\$1,000,000
AUTOMOBILE NON OWNERSHIP & HIRED CAR COVERAGE This will provide coverage if you hire tour buses.	\$1,000,000
UMBRELLA LIABILITY \$10,000 Deductible	\$2,000,000

CONFERENCE CHAIRPERSON OR TREASURER Please type or print the following information and sign this form.

Name Dmitry Kaplan
Conference Title Treasurer / Liaison
Address 3819 165th pl SE
Bellevue WA 98008-5859
Phone No. (206) 747-5126
Signature [Signature]
Date 2/23/92

FOR OFFICIAL USE ONLY			
CONF DATE	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Mo.	Date	Yr.
Date Rec'd	<input type="text"/>		
Date Ack	<input type="text"/>		
Off&Ctm List	<input type="text"/>		
<input type="checkbox"/>	INSURANCE CLAIM		
<input type="checkbox"/>	FILE COMPLETE		



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART II EXPENSE

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All expense items may be expressed in either U.S. Dollars or in local currency.

SEE ATTACHED

Full title of Conference 1992 RNNS / IEEE Symposium on Neuroinformatics

Dates of Conference _____

PROMOTION	Budget	Interim Report	Final Report
Printing / Call for Papers	\$ _____	\$ _____	\$ _____
Printing / Advance Program	_____	_____	_____
Printing / Final Program	_____	_____	_____
Mailing Lists / Labels	_____	_____	_____
Postage	_____	_____	_____
Other _____	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
CONFERENCE PUBLICATION			
Conference Record / Digest Printing	\$ _____	\$ _____	\$ _____
Author Kits Printing	_____	_____	_____
Shipping to Site and IEEE Hq.	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)			
Total	\$ _____	\$ _____	\$ _____
SOCIAL FUNCTIONS (Itemize event on separate sheets.)			
Total	\$ _____	\$ _____	\$ _____
ADMINISTRATION			
Insurance & Bonding	\$ _____	\$ _____	\$ _____
Security & Guard Service	_____	_____	_____
Projection Equip. Rent & Operator	_____	_____	_____
Management, Secretarial Services	_____	_____	_____
Office Equip. Rental	_____	_____	_____
Printing forms, Tickets, Stationery, Etc.	_____	_____	_____
Posters, Signs, Badges, Etc.	_____	_____	_____
Telephone	_____	_____	_____
Transportation	_____	_____	_____
Gratuities, Etc. (Attach details)	_____	\$ _____	\$ _____
Total	\$ _____	\$ _____	\$ _____
ALL OTHER			
Committee Expenses	\$ _____	\$ _____	\$ _____
Other (Attach Details)	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
TOTAL EXPENSES	\$ _____	\$ _____	\$ _____

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: _____

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars - at the current conversion rate - when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name Dmitry Kaplan Tel. No. (206) 747-5726

Address 3819 85th Ave SE

Conference Position President

SIGNATURE [Signature] Date 2/23/92

NOTE: BE SURE TO ATTACH THIS FORM TO "PART I: INCOME" AND MAIL BOTH FORMS TOGETHER

Budget 1/2

50 participants from US	Total foreign (in US\$)	Total Russian (in roubles)
ADMINISTRATIVE EXPENSES:		
transportation between airports guidance and food in Moscow	2,500.00	
Airport transport in Rostov, service in airport	500.00	1,400
Secretarial	300.00	1,000
Symp bag, pen, papers	500.00	4,000
Building and room rent	1,000.00	2,000
Equipment rent	300.00	1,000
Ship rent	500.00	1,000
Communication, mail	1,000.00	1,000
Bus rent in Rostov	640.00	2,000
Coffee	1,000.00	6,000
Abstracts printing	3,000.00	6,000
Invited speakers	7,500.00	1,000
Reserve	1,000.00	600

Subtotal:	(19,840.00)	27,000
OTHER EXPENSES:		
CONFERENCE TRAVEL	(9,000.00)	
PUBLICITY EXPENSES	(1,800.00)	
TOTAL EXPENSES	(30,640.00)	
INCOME:		
tantantive NSF support	15,000.00	
Registration	12,500.00	
TOTAL INCOME:	27,500.00	

Budget 2/1

The following are expenses that are likely to be born by conference attendees

	US\$ per person
Food	100.00
Hotel for 4 nights:	
de luxe	480.00
double for 1	320.00
single	260.00
double for 2	160.00

Date: Mon, 17 Feb 1992 17:53:25 -0500
From: htn@csl36h.csl.ncsu.edu (Dr. H. Troy Nagle Jr.)
To: faldana@ieee.org, j.aylor@ieee.org, jmf6@po.cwru.edu, o.garcia@ieee.org
pimentel@disam.upm.es, r.begun@ieee.org, r.j.jaeger@ieee.org,
r.marks@ieee.org, rce@rti.rti.org, t.hissey@ieee.org,
w.tompkins@ieee.org
Subject: TAB/Region 9 Initiative for 1994
Cc: e.arriola@ieee.org, h.fernandez@ieee.org, h.rudnick@ieee.org,
j.miguez@ieee.org, l.gandia@ieee.org, t.nagle@ieee.org

MEMORANDUM

TO:

Communications Society (Fred Andrews, Richard Jaeger)
Computer Society (James Aylor, Oscar Garcia)
Engineering in Medicine and Biology Society (Janie Fouke, Willis Tompkins)
Industrial Electronics Society (Robert Begun, Juan Pimentel)
Neural Networks Council (Russ Eberhart, Robert Marks)
Power Electronics Society (Fernando Aldana, Thomas Wilson)
Power Engineering Society (Ted Hissey, Robert Dent)

FROM:

Troy Nagle and Hugh Rudnick

DATE:

February 17, 1992

CC:

Luis Gandia, Eduardo Arriola, Hugo Fernandez-Verstegen,
and Juan Carlos Miguez

SUBJECT: Proposal for 1994 TAB/Region 9 Technical Program

In September, 1990, the IEEE Technical Activities Board and IEEE Region 9 conducted a two-week Colloquium at five different IEEE Sections in South America. The Colloquium was organized as a series of technical presentations, round-table discussions, and university and industrial visits at each site (Rio de Janeiro, San Paulo, Buenos Aires, Montevideo, and Santiago). Fourteen Technical Societies and Councils participated in the event. The sessions at each of the five sites were very successful. One of the key findings from discussions with local IEEE members is their intense desire to host IEEE Society-sponsored technical conferences. At the conclusion of the Colloquium, we (Hugh Rudnick from Region 9 and Troy Nagle from TAB) agreed to try to encourage the IEEE Societies to hold more technical meetings in Region 9, and to target 1994 as the starting date for a new program of technical conferences, short courses and tutorials, distinguished lecturer and other TAB activities in the Region. The new program will be a cooperative venture between TAB and Region 9.

During the 1990 Colloquium, seven Societies/Councils (S/Cs) were identified as being candidates for this new program (Communications, Computer, Engineering in Medicine and Biology, Industrial Electronics, Neural Networks, Power Electronics, and Power Engineering). The technical fields of interest of these S/Cs were frequently requested in the cities we visited. The purpose of this memorandum is to Initial actions within these seven S/Cs that might lead to their holding technical meetings in Region 9 in 1994. The most urgent matter is to identify potential conferences (new ones or existing ones) that could be programmed as joint Society/Region/Section/Chapter activities. Since 1994 is rapidly approaching, planning for these events should begin immediately.

Is your Society interested in increasing its activities in Region 9? Can you suggest a technical meeting (new or existing) that might be conducted somewhere in Region 9 in 1994 or thereafter? Please let us know about any possibilities within your Society. We are especially interested in the names of individuals that might be willing to serve on the Organizing Committees for the technical meetings. TAB and the Region 9 Committee will hold their next meetings in April. We would like to have your response by the end of March so that we may report to each body at its next meeting.

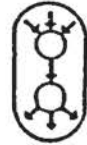
Thank you for considering this new initiative in Region 9. Please give us your ideas and suggestions for activities that might become part of this new program.

ADDRESSES:

Fred Andrews (PO Box 448, Colts Neck, NJ 07722)
Richard Jaeger (r.j.jaeger@ieee.org)
James Aylor (j.aylor@ieee.org)
Oscar Garcia (o.garcia@ieee.org)
Janie Fouke (jmf6@po.cwru.edu)
Willis Tompkins (w.tompkins@ieee.org)
Robert Begun (r.begun@ieee.org)
Juan Pimentel (pimentel@disam.upm.es)
Russ Eberhart (rce@rti.rti.org)
Robert Marks (r.marks@ieee.org)
Fernando Aldana (faldana@ieee.org)
Thomas Wilson (Elect. Eng., Duke Univ., Durham, NC 27706)
Ted Hissey (t.hissey@ieee.org)
Robert Dent (Power Authority of New York, 123 Main St., White Plains, NY)
Troy Nagle (t.nagle@ieee.org)
Hugh Rudnick (h.rudnick@ieee.org)
Luis Gandia (l.gandia@ieee.org)
Eduardo Arriola (e.arriola@ieee.org)
Hugo Fernandez-Verstegen (h.fernandez@ieee.org)
Juan Miguez (j.miguez@ieee.org)



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

February 3, 1992

To: NNC AdCom Members

Subject: Information Item on *Nominations for 1993 NNC Officers*

Background: The immediate Past President of the Council serves as the Chair of the Nominations Committee, which is a standing committee of the Council. The other members of the Committee are

Dr. H. Vincent Poor
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
(609) 258 1816
FAX: (609) 258-3745
poor@ivy.princeton.edu

Dr. Teck Seng Low
Electrical Engineering Dept.
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511
FAX 779 1103
772 2129
elelowts@nusvm.bitnet

The Officers of the Council are President, Vice-President, Treasurer and Secretary. Each of the current officers is eligible for reelection in 1993.

Nomination Procedure: Voting members of the NNC AdCom are eligible to nominate officers. All nominations must be accompanied by a second from an eligible voting member. Nominations should be sent to the Committee Chair or a Committee member by May 4, 1992. The election will take place at the AdCom meeting held in conjunction with the Baltimore IJCNN (June 7-12, 1992). The Committee will disclose all valid nominations in a report to be distributed to AdCom members prior to the meeting.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II', written in a cursive style.

Robert J. Marks II, Chair
NNC Nominations Committee

cc: Dr. Teck Seng Low
Dr. H. Vincent Poor

Applied Physics Laboratory



Robert J. Marks
Neural Networks Council
University of Washington
Seattle, WA 98195

Oct. 3, 1991

Dear Dr. Marks

The Neural Networks Council (NNC) appointed me to be a liaison member to the IEEE Committee on Man and Radiation (COMAR). The purpose of COMAR is to represent the IEEE in matters associated with health effects related to electrical and electromagnetic exposure. A major activity is to develop position statements for public dissemination.

I participated in a COMAR meeting as a new representative of NNC last July. The meeting was held in connection with the Bioelectromagnetics Society annual meeting in Salt Lake City. Membership in COMAR is listed in Attachment A.

Attachment B outlines the planned agenda for the July meeting. Some recent activities of COMAR are summarized below.

1. Position paper on research needs. The committee approved a position paper entitled "Research in the area of health effects of power frequency electric and magnetic fields". The position statement was motivated by the opinion commonly held by the scientific community that focused research is needed to define safe limits for human exposure to ELF fields.

2. Position paper on "Currents of Death". A recent book appeared by Paul Brodeur entitled "Currents of Death". The book takes the position that many in our society are exposed to dangerous levels of EM radiation due to exposure to power lines, video display terminals, and other sources. COMAR commissioned Eleanor Adair to develop a critical review of Brodeur's book. A synopsis of the 33-page review was published in the February, 1991 issue of the IEEE Power Engineering Review (Attachment C).

3. Other Activities in progress.

- Letter drafted to MACWORLD in response to several articles on health risks associated with video display terminal EM fields, including one article by Paul Brodeur (July, 1990).
- Draft report on safety of EM pulse simulators (by Howard Bassen)
- Draft report entitled "Medical Applications of EM Fields" (by C. H. Sutton et al.)
- Safety of hand-held police radar transmitters.

Interested parties may contact me for a fuller description of COMAR activities and publications.

A handwritten signature in cursive script that reads "J. Patrick Reilly".

J. Patrick Reilly

cc: R.E. Eberhart

Johns Hopkins Road, Laurel, Maryland 20723-6099

Washington (301) 953-5000 Baltimore (301) 792-5000

<u>Officers</u>	<u>Term/Officer</u>	<u>Term/Elected Member</u>
Dr. James Lin, Chairman*	1990-1991	1988-1990
Dr. John Osepchuk, Vice Chairman*	1990-1991	1988-1990

<u>Elected Members</u>	<u>Term</u>
Dr. Eleanor Adair*	1991-1993/2nd Term
Mr. Howard Bassen*	1990-1992
Dr. Thomas Budinger*	1990-1992
Dr. C.K. Chou*	1990-1992
Mr. Robert Curtis*	1990-1992
Dr. John D'Andrea	1989-1991
Dr. David N. Erwin*	1989-1991
Dr. Kenneth Foster*	1990-1992
Dr. Om Gandhi*	1989-1991
Mr. Louis Heynick	1991-1993
Dr. Bengt Knave	1990-1992
Dr. Leeka Kheifets	1991-1993
Dr. Robert Liburdy	1991-1993
Mr. Gregory Lotz	1990-1992
Dr. Sol Michaelson*	1991-1993
Dr. Kjell Mild	1990-1992
Dr. George Mine	1991-1993
Dr. John Monahan	1989-1991
Dr. Granger Morgan*	1991-1993
Dr. William F. Pickard*	1989-1991
Dr. Charles N. Rafferty	1990-1992
Dr. Lee Rosen	1991-1993
Dr. Asher Sheppard	1990-1992
Dr. Carl Sutton*	1991-1993/2nd Term
Dr. Thomas S. Tenforde	1989-1991

<u>Liaison Members</u>	<u>IEEE Representation</u>
Dr. Robert Ashley*	Instrumentation & Measurement Society
Mr. Fred Cain*	Antennas & Propagation Society
Dr. Marcus Durham*	Industrial Applications Society
Dr. Thelma Estrin*	IEEE United States Activities Board
Dr. William Feero*	Power Engineering Society
Dr. Leonard Frizzell*	Ultrasonics, Ferroelectrics and Frequency Control Society
Dr. Dennis Hjeresen*	Circuits and Systems Society
Mr. Daniel Hoolihan*	Electromagnetic Compatibility Society
Mr. John Kean*	Broadcast Technology Society
Mr. Seymour Krevsky*	Engineering Management Society
Dr. Javaid Laghari*	Dielectrics & Electrical Insulation Society
Mr. Ron Petersen*	Microwave Theory & Techniques Society
Dr. Charles Polk*	Engineering in Medicine and Biology Society
Dr. Patrick Reilly*	Neural Networks Council
Mr. William Tackaberry*	IEEE United States Activities Board
Mr. Donald W. Zipse*	Industrial Applications Society

<u>Others</u>	
Mr. Frederick Lipps	(Status Not Known)
Mr. G. Andrew Mickley	Alternate to Dave Erwin

* = IEEE members



UNITED STATES ACTIVITIES

Promoting Career and Technology Policy Interests of Electrical, Electronics & Computer Engineers

United States Activities Board

Technology Policy Council

Aerospace R&D Policy
Communications &
Information Policy
Defense R&D Policy
Energy Policy
Engineering R&D Policy
Health Care Engineering Policy
Man & Radiation

Government Activities Council

Congressional Fellows
Washington Internship for
Students of Engineering
Legislative Report
National Government Activities
State Government Activities
Technology Policy Conference
Technology Transfer
U.S. Competitiveness

Member Activities Council

Awards & Recognition
Communications
Continuing Engineering Education
Employment Assistance
IMPACT
Opinion Survey
Precollege Education
'Professional' Perspective
Salary Survey

Professional Activities Council for Engineers (PACE)

PACE Regional & Divisional Activities
PACE Information/Workshop
Student Professional Awareness

Career Activities Council

Anti-Discrimination
Career Maintenance & Development
Ethics
Intellectual Property
Licensure & Registration
Manpower
Pensions

IEEE-USA Office

(202) 785-0017

"Information Line" Recording

(202) 785-2180

Facsimile

(202) 785-0835

COMMITTEE ON MAN AND RADIATION

Little America Hotel
Arizona Room
Salt Lake City, Utah
(801) 363-6781

Thursday, June 27, 1991

6:00 p.m. - 10:00 p.m.

1. Call to Order/Introductions
2. Approval of Agenda/Minutes of November 4, 1990 Meeting
3. Chairman's Remarks:
 - A. Committee Annual Plans
 - B. COMAR Approved Statements
 - C. January - June Accomplishments
 - D. Collaboration with CCIP
4. Reports from Ad Hoc Subcommittees:
 - A. High Peak Pulse Power -- Howard Bassen
 1. Issues and Future Activities
 2. Statement on Safety of Electromagnetic Pulse Simulators
 - B. RF Sealers -- Om Gandhi
 1. Issues and Future Activities
 2. Statement on Health Aspects of Exposure to Electromagnetic Fields from ~~RF~~ Sealers and Dielectric Heaters ^{RF}
 - C. Medical Applications -- Carl Sutton
 1. Issues and Future Activities

IEEE-USA, 1828 L Street, N.W. Suite 1202, Washington, DC 20036-5104

The Institute of Electrical and Electronics Engineers, Inc.

- D. Microwave and Radio Frequency Fields -- C.K. Chou
 - 1. Issues and Future Activities
 - 2. Proposed Statement on Exposure to Radio Frequency Fields from Wireless Telecommunications Services
- E. EM Fields From VDT -- T.S. Tenforde
 - 1. Issues and Future Activities
- F. Power Line Frequency Electric and Magnetic Fields -- Charles Polk
 - 1. Issues and Future Activities
- 5. New Business:
 - A. Safety of Police Radars
 - B. Nomination of New Vice Chairman
 - C. Nomination of New Members
 - D. Notice of Expiring Memberships
 - E. Other
- 6. Next Meeting Date: ~~November 2, 1991~~
Sunday, Nov 3, 9 AM - 2 PM, Orlando, Fla
- 7. Adjournment

NOTICE

The meeting will be preceded by a dinner
for COMAR members at 6:00 p.m.

New Business
Opposite: Fear of EM - exploitation by commercial enterprises,
Gandhi: NIH review process; send letter to Congressman
Hess and Bossen VDT: Vitamins & Limits standards for RFI & VLF.

Currents of Death: Rectified

A Response to the Book by Paul Brodeur

W.R. Tackaberry, COMAR Member at Large

The following summary is based on an analysis by Eleanor Adair of the Committee on Man and Radiation (COMAR). The complete 33-page report is available from Chris Brantley, IEEE-USA, Suite 1202, 1828 L. Street, N.W. Washington, DC 20036-5104.

As a professional society representing more than 300,000 engineers and scientists whose work has brought into being the myriad devices, appliances, and systems using electromagnetic energy, the Institute of Electrical and Electronics Engineers (IEEE) has a responsibility to evaluate the extant literature on the biological effects of electromagnetic fields and report this information to both the engineering community and the public at large. The Committee on Man and Radiation (COMAR) of the IEEE comprises about 30 members drawn from biological science, engineering, physical science, medicine, and industry. All are experts in some aspect of the interaction of electric and magnetic fields with biological systems and, as detailed in the COMAR Charter, "The Committee may undertake specific actions in the form of accurate and factual reports, news releases, etc., readily understandable to the layman to further the public perception of nonionizing radiation." Although, understandably, there is a range of opinions among the COMAR membership on the proper interpretation of the database and how well it may serve to underlie decisions on safety for exposed persons, there is also a strong desire to counter misrepresentations of that database by those lacking proper expertise or perspective.

Dr. Eleanor R. Adair, one of COMAR's members, was asked by the committee to prepare an analysis of Mr. Paul Brodeur's book, *Currents of Death: Power Lines, Computer Terminals, and the Attempt to Cover Up Their Threat to Your Health*. Dr. Adair is a Fellow at the John B. Pierce Laboratory in New Haven, Connecticut, and a senior research scientist and lecturer at Yale University. The

material in this article is taken from sections of Dr. Adair's report.

Environmental issues pervade our society, issues that frequently seem to exceed our ability to comprehend the problem or frame a scientifically sound response. Some of these issues, such as global warming, drought, and nuclear war may be characterized as *first-tier problems* that are global in impact, a threat to the survival of our species and civilization. Others, like significant oil spills, issues of land use, and pollution of air, ground, and water, form a *second-tier* that may threaten local ecosystems and endanger certain species. In a *third-tier*, we find a host of issues involving a narrower focus in which the potential impact is also on the health of individuals. The third-tier issues are no less worthy of concern than first- or second-tier, because they include diseases, local pollution of air and water, chemicals in the food chain, and radiation. Although exposures may be widespread, the risk to an individual from any one of these factors is usually very low so that any harmful effects would be widely scattered in the population. Often, the health impact cannot be related to exposure without elaborate statistical methods that sort through the data of vast human experience. Because the individual seems to be a random target of an indiscriminate silent stalker, third-tier issues can accumulate a measure of attention and dread that are disproportionate to the low level of individual risk.

A recent book, *Currents of Death: Power Lines, Computer Terminals, and the Attempt to Cover Up Their Threat to Your Health* (Simon and Schuster: New York, 1989), by Paul Brodeur is based on a series of articles in the New Yorker. It places the spotlight on electromagnetic fields (EMFs) in the environment, an especially vexing example of a third-tier problem. While nonionizing electromagnetic energy has never been held to be completely harmless (after all, microwave ovens cook

food), exposures at very low levels have been thought to be benign. However, there is now controversy arising from epidemiologic and laboratory research that suggests there may be health problems resulting from environmental sources of EMFs.

The problems associated with electromagnetic energy (both ionizing and nonionizing) are typical of the third-tier issues. Historically, scientists have had considerable insight into the dangers of high-level exposures (affecting very few people), but the scientists are less sure when addressing exposures at the low levels to which most of the population may be exposed. Until fairly recently, the term *radiation* referred in the public domain to medical diagnosis and treatment by X-rays, or to other man-made sources of ionizing radiation (e.g., weapons production and testing, nuclear power reactors) and to the natural radiation encountered on earth (e.g., sunlight, cosmic rays, radon). There is a good, albeit incomplete, understanding of an interactive mechanism between high-energy ionizing radiation and biological tissues whereby considerable energy is deposited in the DNA molecule resulting in mutations of the cellular DNA (the genetic material of cells). In this way, ionizing radiation may influence reproduction (contribute to birth defects and miscarriages) and cancer rates. However, extrapolation into regions where there is no data is uncertain and still a source of controversy.

Paul Brodeur introduces his readers to some possible biological hazards from the nonionizing portion of the electromagnetic spectrum for which there is a parallel degree of understanding concerning high levels of exposure, but for which scientists have far less insight about low-level exposures. The existence of definite thresholds for specific biological endpoints, coupled with a lack of evidence for cumulative effect, has undoubtedly contributed to the inadequate understanding of low-ion-

tensity interactions. Mr. Brodeur's book is divided into three parts which focus on:

- Electric power transmission and distribution, telecommunications, radio and TV broadcasting
- Radar, geomagnetic fields
- Computer screens (video display terminals or VDTs).

In all these cases, the fields are labeled *nonionizing* because they are far too weak to change the number of electrons in atoms and molecules and therefore too weak to cause cell mutations by direct alteration of DNA.

Electric power, distributed at 60 Hz in the U.S.A., has been companion to the growth of our civilization throughout the twentieth century. Barring the well-characterized hazards of minor shocks or of electrocution, our power distribution systems, neighborhoods, homes, and offices have been assumed to pose no hazard from exposures to the accompanying electric and magnetic fields. Similarly, except very close to antennas where the fields are strong enough to heat the tissues of the body, the energy from broadcast stations, microwave communication towers, and radar devices, known to decrease rapidly with distance from the source, was considered too weak to pose a hazard. Until certain reports were recently published, similar arguments held for VDTs where, except for possible eyestrain, muscle fatigue and postural problems (dubbed *ergonomic factors*), the devices seemed innocent enough. Also, the fields from power distribution lines and home appliances were held to be so slight that they were essentially ignored. In all cases, the EMF was thought to be too weak to heat tissues, too weak to alter biochemicals, and too weak to excite or otherwise affect individual cells.

What do researchers working on these issues now tell us? First, reports from a number of laboratories claim biological effects on the cellular level from exposure to low intensity 60 Hz and other low-frequency electric and magnetic fields; these effects generally have not been independently replicated and cannot be satisfactorily explained with current knowledge and theories. The most reliable effects occur in the presence of field strengths that are orders of magnitude greater than those encountered in everyday life. Second, several epidemiological studies ap-

pear to show an association between cancer, especially childhood leukemia, and exposure to a surrogate index of 60 Hz magnetic fields. Third, one epidemiological survey, out of at least eight, purports to demonstrate a potential for adverse pregnancy outcomes among VDT users. The scientific bedrock is nowhere evident in these studies and, in particular, the evidence for adverse health effects in human beings is far from conclusive.

The book, *Currents of Death*, elaborates on these issues. However, the source materials cited by Mr. Brodeur are of variable calibre, including not only technical reports published in peer-reviewed journals by researchers conducting laboratory and epidemiological research, but also numerous columns from private newsletters (*Microwave News* and *VDT News*), personal interviews, committee reports, and portions of public and private records. This uneven literature, combined with an approach that is heavily biased, sheds far more *heat* than light on a most difficult public health question.

It is the COMAR consensus that the book, *Currents of Death* authored by Paul Brodeur, does not provide a complete or a balanced account of the research conducted to date on health effects that may be associated with exposure to low-frequency, low-intensity, electric and magnetic fields. This imbalance is evidenced by a disregard of scientific principles that guide the research and analysis process and by the omission of any discussion of established, prudent

regulatory practices. Admittedly, accurate in many dates, names, and facts, this seemingly well-researched and thorough book appears to be science reporting for the intelligent lay audience. Mr. Brodeur has cloaked himself in the language and style of a science reporter while tackling many difficult engineering and biological topics.

Unfortunately, the mantle of science reporter is an illusion, as the reader is provided with a story that does not weigh all of the available evidence. Instead, Mr. Brodeur presents *selected* findings that produce the impression that power distribution lines and cancer, altered Ca-efflux from cells and health hazards, VDTs and reproductive abnormalities are causally linked. The author chooses sides and identifies the *good guys* as those who report biological effects in the laboratory and find positive associations in epidemiological studies. On the other hand, the *bad guys* practice obfuscation, mendaciousness, and cover-ups in the service of corporate or military bosses. In his entertaining tale of right and wrong, Mr. Brodeur casts aside the scientific approach and treats questionable research with the same respect as sound research, as long as the results support his theme. He deftly builds the case for health hazards, concomitantly casting into unfavorable light respected institutions such as the National Academy of Sciences, the centers for Disease Control, the World Health Organization, and the American Medical Association, all of whom have examined this issue without finding convincing evidence or risk to humans.

Call for Papers

1991 Sessions On Nuclear Power Systems

November 5-7, 1991, Santa Fe, New Mexico

To be held in conjunction with the Nuclear Science Symposium, the 1990 Sessions on Nuclear Power Systems (SNPS) will again be held in conjunction with the Nuclear Science Symposium. The technical sessions on nuclear power systems will cover modernization, operations, maintenance, advance LWR, plant life extension, I and C, and other related subjects currently of major interest to nuclear power generating stations and the supporting services and suppliers. A special session on nuclear standards is part of this program and provided yearly by the Nuclear Power Engineering Committee of the PES.

Abstracts and summary must be submitted prior to the April 19, 1991 deadline to:

- Jay Forster, Quadrex Corporation, 1700 Dell Avenue, Campbell, California 95008, phone (408) 370-4202, FAX (408)370-4391
- Guy Armantrout, LLNL, P.O. Box 5504, L-440, Livermore, CA 94550, phone (415)422-1594, FAX (415)294-4587.

From marks Tue Oct 22 20:23 Robert J. Marks II Library Archive

Received: by milton.u.washington.edu

(5.65/UW-NDC Revision: 2.1) id AA14237; Tue, 22 Oct 91 20:22:53 -0700

Date: Tue, 22 Oct 91 20:22:53 -0700

From: Robert Marks <marks@u.washington.edu>

Message-Id: <9110230322.AA14237@milton.u.washington.edu>

Sender: marks@milton.u.washington.edu

To: f.smits@ieee.org, kang@uivlsi.csl.uiuc.edu, kim@ee.washington.edu, marks, soma@ee.washington.edu

Subject: CD RomComCon

Cc: a.burgmeyer@ieee.org, r.geiger@ieee.org, w.tompkins@ieee.org

Status: RO

CD RomComCon

Minutes of Meeting concerning CD ROM recording of IEEE.

Conference Records, Monday, October 31, 1991, Seattle.

Washington.

Attendees:

Steve Kang, President, IEEE CAS Society

Mani Soma, ISCAS Program Chair

Robert Marks, President, IEEE Neural Networks Council

Charter: Initiate and take action towards CD ROM display of Conference Proceedings in 1992.

1. Soma contacted Yongmin Kim to attend the meeting to have EMBS representation. Kim is very interested in helping, but could not attend this meeting. Representation looks like CAS, EMBS and NNC.
2. Kang & Marks reported the hallway conversation in Cancun concerning the CD ROM project (with Willis Tompkins, past EMBS President, Friedholf Smits, and Randy Geiger, CAS President Elect). Smits, who is working towards placing the IEEE Transactions & Journals on CD-ROM, agreed in Cancun to be an ex-officio member. A similar project has been launched by EMBS. Some of the ideas expressed below are due to EMBS.
3. Does the project need to be financed outside of the conferences? If so, possible sources include industry grants, the participating Societies/Council and the TAB New Ventures Comm.

RESOLVED:

- (a) Go for plain vanilla CD ROM first. Bells and whistles, such as search, interactive programs and multimedia, may be added later.
- (b) It's a good idea at the first conference to give both the Proceedings hard copy and the CD ROM with a discount coupon. Later conferences can offer an option.
- (c) CAS is aiming at CD ROM'ing its Proceedings in May 92. EMBS apparently has the same goal. So does the NNC. The NNC, due to it's youth, would like to CD ROM all it's Proceedings.
- (d) A good working name for the Committee is CD RomComCon (CD ROM Committee for Conference Records). Got a better

idea?

(e) Soma will ride point on the project.

ACTION ITEMS:

(A) Soma will query his contacts at Microsoft and Aldus for support, both in talent and money. Both companies have a vested interest in the wide spread use of CD ROM readers.

(B) Soma will work with Kim to interface with CD ROM reader manufactures, both for support and for discount tickets for purchase. These manufacturers will certainly want booths at the conferences where the CD ROM is introduced.

(C) Soma will work with Kim to coordinate activities with EMBS, as to not duplicate efforts.

(D) Both Kang and Soma will make queries concerning CD-ROM manufacture with their contacts.

(E) Marks will query Smits concerning format standards.

(F) Marks will talk with Ann Burgmeyer at IEEE Press regarding timing issues for simultaneous conventional press & CD ROM publication.

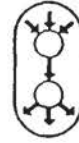
(G) Marks will coordinate a conference call in late October. Reports will be given on action items and the next steps assessed. Proposed participants: Kang, Kim, Marks, Smits, Soma.

Submitted for your approval,

Bob Marks
10-23-91



NEURAL NETWORKS COUNCIL



Roy S. Nutter, Jr. *TREASURER*
Chair, ~~Meetings Committee~~

PLEASE REPLY TO:
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506 USA
Tel: (304) 293-6371, ext 23
FAX: (304) 293-5024
e-mail: rsn@a.coe.wvu.wvnet.edu

MEMORANDUM

TO: Jim Bezdek
FROM: Roy Nutter, NNC Treasurer *Ry Nutter*
DATE: January 22, 1992
SUBJECT: Duties of Meetings Committee Chair

Enclosed is my effort to document the duties of the Meetings Committee Chairman.

Enc.

cc: Russ Eberhart
Pat Simpson
Toshio Fukada
✓ Bob Marks

Duties of Meetings Chair

1. **Maintain current Meeting Matrix**
Be sure that conferences are placed on the NNC meeting matrix and that all IEEE required key dates and key budgeting dates are met.
2. **Correspond with IEEE Service Center, 445 Hoes Lane, PO Box 1331, Piscataway, NJ, 08855-1331, so they can send each conference & forum chair a copy of the IEEE Conference Planning guide.**
3. **Correspond with each conference organizing chairman to frequently remind him of budgeting due dates to NNC.**
4. **Maintain Minutes Book for NNC Meetings Committee**
5. **All actions by Meetings Committee are "recommendations" to NNC Administrative Committee (AdCom)**

Method: Discuss openly and at length all meetings related business in Meetings Committee. Then take conclusion to AdCom in form of a "formal motion."
6. **Work through IOC (InterOperating Committee: consists of 3 members from IEEE NNC and 3 members from INNS. See IOC document for method of operation.) Chair of IOC alternates between IEEE and INNS (IEEE in odd numbered years).**
7. **Forums: Meetings Committee will:**

Review and approve NNC related forums that are in the best interest
Keep matrix of received/approval status.
8. **Send meetings listings and updates to IEEE TAG for listing in TAG meetings book.**

Consent Agenda:

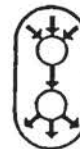
- Approval of Associate Editors of NN Trans.
- Termination of agreement with INNS

New Business:

- Regional interest groups



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief
Transactions on Neural Networks

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

February 1, 1992

Russell Eberhart, President
IEEE Neural Networks Council
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Dear Dr. Eberhart,

I hereby submit for approval by AdCom the following new Associate Editors for the *IEEE Transactions on Neural Networks*.

Motion: The NNC AdCom consents to appointment of the Associate Editors listed below.

Prof. James C. Bezdek
The University of West Florida
Computer Science
11000 University Parkway
Pensacola, Florida 32514-5750

Prof. Mohamed El-Sharkawi
University of Washington, MS FT10
Department of Electrical Eng.
Seattle, WA 98195

Dr. B. H. Juang
AT&T Bell Laboratories 2d 534
600 Mountain Avenue
Murray Hill, NJ 07974

Dr. Thomas F. Krile
Department of Electrical Eng.
Texas Tech University
Lubbock, Texas 79409-3102

Professor Sun-Yuan Kung
Princeton University
Dept. of Electrical Engineering
Princeton, NJ 08544

Dr. R. C. Lacher
Florida State University
Dept. of Computer Science
206 Love/ B-173
Tallahassee, FL 32306-4019

Dr. Clifford Lau
ONR Code 1114 SE
800 North Quincy St
Arlington, Va 22217-5000

Dr. Kuo Chun Lee
Cirrus LOGIC, Inc.
B2-410
3100 West Warren Avenue
Fremont, CA 94538

(continued)

Prof. George Lendaris
Systems Science & Eng.
Portland State University
P.O. Box 751
Portland, OR 97207-0751

Patrick K. Simpson
Oricon Corporation
9363 Towne Centre Dr.
San Diego, CA 92121

Dr. Seho Oh
University of Washington
Department of Electrical Eng.
Seattle, WA 98195

Professor Jacek Zurada
Department of Electrical Eng.
University of Louisville
Louisville, Kentucky 40292

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II', with a stylized flourish at the end.

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks

cc: Stamatios Kartalopoulos, Chair
NNC Publications Committee

February 24, 1992 *** DRAFT *** DRAFT *** DRAFT *** DRAFT *** DRAFT ***

*
*
D
R
A
F
T
*
*
*

Dr. Paul Werbos, President
International Neural Network Society
1250 24th Street, N.W., Suite 600
Washington, D.C. 20037

Dear Dr. Werbos:

It is with regret that I must inform you that, as a result of deviations from agreed commitments by INNS, we consider the IEEE NNC/INNS Agreement terminated effective immediately.

The decision to terminate our agreement was made after extensive discussion of the issues involved within the IEEE Neural Networks Council leadership and consultation with Corporate IEEE.

Specifically, the current issue involves our joint conference that was planned for Beijing China with Professor Zong Sha as its Chairman. INNS failed to accept Professor Sha's authority by not providing him with an approved budget sufficiently in advance of the meeting and interfered with his local arrangements in violation of an agreement signed November 26, 1991 by Professor Zong Sha, Mr. Morgan Downey and Dr. Harold Szu.

Over the recent past, it has become increasingly difficult, if not impossible, for our volunteer leadership to communicate directly with their INNS volunteer counterparts to resolve such issues. We hope that conditions will change and that our organizations will again be able to actively work together for the benefit of our profession.

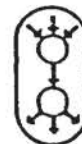
In accordance with IEEE's commitment to abide by the Agreement while it was in force, and in accordance with the previous budget approval process, any surplus from the Baltimore conference to be held in 1992 will be divided evenly between the IEEE Neural Networks Council and the INNS.

Very truly yours,

Russell C. Eberhart

cc: I. Engelson
E. Herz
J. Powers
M. Downey

*** DRAFT *** DRAFT *** DRAFT *** DRAFT ***



NEURAL NETWORKS COUNCIL

Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

February 3, 1992

To: NNC AdCom Members

Subject: *Establishment of Regional Interest Groups*

Background: A number of regional groups have approached the Council concerning establishment of Local Sections of the NNC. Councils, unlike Societies, are not eligible to formally create Local Sections. In order, however, to address the needs of local IEEE membership, the Council's ExCom acknowledges the need for the recognition and support the such groups. This motion will formally institutionalize Council *Regional Interest Groups* (RIGS). If the Council later chooses to evolve to the status of Society, it is anticipated that these RIGS will become local sections of the Society. RIGS will deal with technical issues covered in the Council's *Field of Interest* statement (i.e., neural networks, fuzzy systems, genetic algorithms).

Motion: The IEEE Neural Networks Council hereby establishes recognition of Regional Interest Groups (RIGS). NNC RIGS will be associated, in name, with local IEEE sections (i.e., the Singapore NNC RIG after the IEEE Singapore Section). Membership in RIG's is open to all members of Societies belonging to the NNC. RIG's are subject to all IEEE policy and regulations, including those applicable to local sections. Establishment of RIG's will through a Council RIG Committee, the Chair of which will be appointed by the Council President with the consent of AdCom. RIG's will be approved by AdCom at the recommendation of the RIG Committee. Each RIG may bill the Council for up to \$1000 each year for expenses relating to travel and lodging of participants in the Council's Distinguished Lecturer Program or for other speakers approved by the Council RIG Committee. Additional funds can be made available through a vote of AdCom.

A handwritten signature in black ink, appearing to read 'R.J. Marks II', with a stylized flourish at the end.

R.J. Marks II, Past President
IEEE Neural Networks Council

cc: Rick Alan, TRW, Mesa, AZ
J.J. Choi, Boeing, Seattle, WA
Sung Yang Bang, Kyungbuk, Korea
Marcelo H. Ang, National University of Singapore
K.F. Cheung, Hong Kong University of Science & Technology
D.C. Park, Florida International University
Yianni Attikiozel, The University of Western Australia

June 7, 1992

Proposal to NNC AdCom concerning a new award

At the suggestion of Prof. John Yen of Texas A&M University, and after a first round of discussion at the March 1992 NNC AdCom meeting, a proposal for a new award in the fuzzy systems area has been drafted. It is proposed for discussion and possible approval by the NNC AdCom; should it be approved, the proposal would go to the IEEE TAB Awards and Recognition Committee for their consideration and approval.

Two changes have been made to the award description as formulated by Prof. Yen. First: he proposed that the name be "IEEE Neural Network Council Zadeh Award" and it is not deemed appropriate to use the name of a living person in the award name. Second: the amount the award has been set at \$500 rather than a larger amount. This is deemed appropriate in view of the fact that our prestigious Pioneer Awards carry no cash award and our Transactions Paper Award carries a \$500 cash award.

What follows is the award description which is to be discussed and approved (subject to amendments) by the NNC AdCom.

Bradley Dickinson
IEEE NNC Awards Committee Chair

Name of Award: IEEE Neural Networks Council Fuzzy Logic Technology Award

Description: For a major contribution to the development of outstanding fuzzy logic applications that have had significant impact on industrial usage of fuzzy logic technology.

Administration: By the Awards Committee of the Neural Networks Council. An Ad Hoc Subcommittee will solicit nominations and judge the candidates. Their selection will be submitted to the Awards Committee for approval and to the Administrative Committee of the Neural Networks Council for final approval.

Eligibility: Open to all meeting the contribution requirements. The award is not to be approved posthumously. Anyone can nominate.

Award: Certificate, a cash award of \$500, and travel grant for the honoree and companion to the awards ceremony.

Funds: Funding will be from the non-dues revenue of the IEEE Neural Networks Council or from industrial donations.

Nominee Selection: Selection will be based on nomination letters received by the Awards Committee of the IEEE Neural Networks Council.

Award Committee: The selection committee will be an Ad Hoc Subcommittee of the Neural Networks Council Awards Committee. With the passage of time, the membership of the Ad Hoc Subcommittee will be composed in part or in full by prior Award holders.

Schedule: The selection will be made annually with nominations invited in July, nominations closed on November 1, selection by January 1, Neural Network Council approval by February 1, and public award at the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), usually in March.

Selection: At most one recipient of the award in any year.

Presentation: The award will be presented at the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE).

Publicity: The award winners will be announced publicly in the IEEE Transactions on Fuzzy Systems, and a flyer will be prepared for distribution at the annual FUZZ-IEEE.

Term: The award will be administered as described here for a period of 5 years. Renewal of the award under the same or modified procedures is possible, depending on the five year experience with the award.

RWN 06/05/92

Draft #3
Neural Networks Council Awards
for Students in Countries with Blocked Currency

The Neural Networks Council (NNC) hereby sets up Awards for students in countries with blocked currencies. The guidelines for these Awards are as follows.

1. Source of funds

The funds for these Awards will be generated in association with a NNC sponsored meeting held within the blocked currency country. The funds may be budgeted in the meeting's budget or come from the meeting's surplus. Among these funds are:

a) Those generated in non-blocked currency outside of the blocked currency country and held at IEEE Headquarters in a "custodial account" specific to the Awards.

b) Those generated in blocked currency and held in the blocked currency country specifically for the Awards by a local IEEE chapter or section.

2. Award nature

The intent of these Awards is to allow students to enhance their studies in IEEE NNC related fields and activities. Therefore, these Awards are available to undergraduate and graduate students in the blocked currency country with the Awards' exact nature being determined to best fit the needs, such determination being made by the associated meeting's Chair (or designate) and the NNC Treasurer (or designate) in consultation with the local IEEE chapter or section Chairman holding custody of the local blocked currency. The Awards must conform to the IEEE Regulations on IEEE Student Recognition and Support. Typical Awards envisioned are:

- a) Book subsidies, including NNC conference proceedings
- b) NNC sponsored meeting registration
- c) Travel expenses to attend NNC sponsored meetings

3. Award procedure

Students will apply to the associated meeting's Chair (or designate) in a manner determined by the meeting's Chair (or designate). Advertisement will be made prior to, during, and after the meeting in a manner best thought by the meeting's Chair (or designate) to inform the maximum number of interested students.

Notes:

1) Several committee members feel that the same considerations should hold for all countries; the above can be simply modified to cover all countries.

2) Several committee members feel that the amount of work to implement this will be quite large and scarcely worth the effort.

3) This was generated with help from Ms. Laura S. Jobmann of email: ljobmann@tab.ieee.org.

4) The committee and its charge are:

Neural Networks Council Committee

"Scholarships for Developing Countries"

This committee is charged with determining means of using Council funds for a developing country which is generated by Council activities within the country. Specifically it has been suggested that the money could be used for students to buy books and supplies.

The Committee needs to determine the possible uses of such money and means of accessing it for those uses and report to the Council at its Baltimore meeting on June 7, 1992.

Committee Members:

1. Fumihito Arai

Department of Mechanical Engineering

Division of Robotics & Mechatronics

Nagoya University

Furo-cho, Chikusa-ku

Nagoya 464 Japan

office phone: +81 (52) 781-5111 Ext 2717

email: d43132a@nucc.cc.nagoya-u.ac.jp; fax: +81 (52) 781-9243

2. Bradley W. Dickinson

Department of Electrical Engineering

Princeton University

Princeton, NJ 08544 USA

office phone: (609) 258-4644

email: bradley@ivy.princeton.edu; fax: (609) 258-3745

3. Robert W. Newcomb, Committee Chairman

Electrical Engineering Department

University of Maryland

College Park, MD 20742 USA

office phone: (301) 405-3662

home phone: (301) 633-0177

email: newcomb@eng.umd.edu; fax: (301) 314-9281

3. Patrick K. Simpson

Orincon Corporation

9363 Towne Center Drive

San Diego, CA 92121 USA

office phone: (619) 455-5530 ext. 267

email: xm8@sdcc12.ucsd.edu; fax: (619) 453-9274

4. cc: Russ Eberhart, NNC President

Research Triangle Institute

P.O. Box 12194

Research Triangle Park, NC 27709 USA

office phone: (919) 541-7123

email: rce@rti.rti.org; fax: (919) 541-8746

June 7, 1992. Transmitted by Jim Bezdek, Chair,
Meetings Committee of the NNC
to the ADCOM of the NNC

#7

Motions of the Meetings Committee that were seconded
and passed unanimously on Saturday, June 6, 1992:

① NNC-sponsored world congresses on computational intelligence (WCCI) will begin in 1994, and will be held no more often than every third year thereafter.

② In years that no WCCI is scheduled, there will be at most one NNC-sponsored conference for: ICNN, FUZZ-IEEE, VRAIS and GA/EP. Co-sponsorship and cooperating status for additional forums, workshops, etc. is not precluded by this.

③ Budget for FUZZ-IEEE '93 / ICNN in San Francisco March 28-April 1, 1993 approved as submitted, pp. 94-98.

④ Request for additional \$50K seed money for FUZZ-IEEE '93 / ICNN approved.

⑤ Not a budget item or WJCNN.
The name of the Nagoya ICNN, Oct. 26-29, 1993 ~~will~~ ^{should} be changed to the JICNN. If this is unsatisfactory to the Japanese, the NNC ExCom is authorized to resolve the issue.

⑥ Budget for Nagoya ICNN (pp. 60-64) approved as submitted, with amendments to name (IJCNN → "JICNN") and to stipulation on p. 60: IEEE = 1/3, Other Societies = 2/3.

⑦ Request for additional \$20K seed money for VRAIS '93, 18-22 Sept., 1993 approved.

8. Budget for NNASP '93, Singapore, 17-20 August, 1993 approved as submitted, p. 103.

9. The 1994 WCCI in Orlando will have four subsections: ICNN, FUZZ-IEEE, GA/EP, and VRAIS.

10. The 1995 ICNN will be held in Perth, Australia; general chair to be Yianni Attikiouzel.

11. The 1995 FUZZ-IEEE will be held in Yokohama, Japan concurrent with the Japanese IFES; general chair to be Michio Sugeno (See next page)

12. The 1996 ICNN will be held at the Sheraton in Washington, D.C.; general chair TBD.

Meetings: 9-12

ATTACHMENT
#7

Memorandum

Date: May 27, 1992
Place: Hiroshima, Japan
Participants: Prof. Terano, Prof. Sugeno, Prof. Hirota,
Prof. Fukuda, Mr. Niinomi

(1) Prof. Terano and Prof. Sugeno reported that there was a proposal from Prof. J. Bezdek to hold the IEEE Fuzzy Conference (FuzzIEEE) in Japan, 1995.

(2) Prof. Terano and Prof. Sugeno will hold the IFES (the International Fuzzy Engineering Symposium) in Yokohama, Japan, in March, 1995. IFES is sponsored by the LIFE (Laboratory for International Fuzzy Engineering Research). There is a serious conflict between two conferences. It is impossible to hold two conferences separately in Japan 1995.

(3) Prof. Terano and Prof. Sugeno seeked for the solution, such that there will be the possibility to hold the joint conference between IEEE Fuzzy conference and IFES, if the IEEE NNC approves it. The advantages are i) to avoid the conflict of the conference dates, and ii) to make use of financial supports from many sectors in IFES. The disadvantage will be the lack of clear individuality on each side. Prof. Terano made remark that the financial aids can be obtained only for the IFES, since LIFE is the semi-Governmental organization.

(4) Prof. Sugeno proposed the joint conference by IEEE, LIFE, JIPDEC (Japan Information Processing Development Center), SOFT (Japan Society for Fuzzy Theory and Systems) as follows:

General Chair: Prof. Sugeno (President of SOFT)
Organizing Committee cochaairs: Prof. Terano (President IFSA,
International Fuzzy Systems Association)
Prof. Klir (N. Y. State Univ., USA)
Program Committee cochaairs: Prof. Hirota (Hosei Univ.)
Prof. Fukuda (IEEE, NNC)

Conference Name: "IEEE/IFES Joint Conference on Fuzzy Systems and Engineering"
(Tentative)

Cosponsored by: IEEE NNC, LIFE, JIPDEC and SOFT

Date: Mar. 20 (Mon.) - 24 (Fri.), '95
or Mar. 13 (Mon.) - 17 (Fri.), '95

* 4 days will be chosen for the oral and poster presentation.
** 5-6 parallel sessions are possible.

Place: Yokohama, Japan

(5) Prof. Sugeno made it clear that the conference will be breakeven with the financial aids from the Government subsidy (200K-300K US\$). There will be tutorials, which will not make money.

(6) Prof. Terano made statement that he needs a few years to prepare the "great Fuzzy exhibitions" to include the almost all contributions from Industries.

(7) Prof. Hirota agreed these.

(8) Prof. Fukuda agreed to discuss and negotiate with IEEE NNC in the next AdCom about this matter.

(9) This is only an informal meeting to look for the possibility of the joint conference.

Program, page 1

ATTACHMENT #8

Witali,

Here is my first cut at a program: I have indicated in the program a couple of problems: papers withdrawn, a paper missing (I will contact the author), a duplicate paper, etc.

Please call me or fax me any corrections as quickly as you can.

Here is my quick (and possibly erroneous) count of papers:

Russia:	108
USA	13
Ukraine:	3
France	3
Lithuania	2
Belgium	2
Armenia	1
UK	1
Hong Kong	1
Denmark	1
Italy	1
Japan	1
TOTAL	137

Wes

ATTACHMENT #9

IEEE TECHNICAL ACTIVITIES

IEEE CONFERENCE INFORMATION SCHEDULE

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full Title of Conference 1992 International Joint Conference on Neural Networks - Beijing
(IJCNN '92 - Beijing) 2. Dates of Conference Nov. 3-6, 1992

3. Location of Conference (full name and address) _____

Estimated Attendance 500 (15 USA) 5. Exhibits Yes No

6. Will there be a Conference Publication? Yes No

If yes, check one: Conference Record Other (explain) _____

IEEE ENTITY INVOLVEMENT

7. Identify IEEE entity involvement as either Sponsor, Co-Sponsor, Participating or Cooperating as defined on the reverse side. Enter below the names of all involved IEEE and non-IEEE entities and their percent of financial share.

Entity	Type of Involvement				Percentage
	S	CS	P	C	
Entity <u>IEEE Neural Networks Council</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	% <u>see attached</u>
Entity <u>China Neural Networks Council</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% <u>agreement</u>
Entity <u>International Neural Networks Society</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	% _____
Entity <u>IEEE Beijing Section</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____
Entity _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	% _____

8. Is the section within whose geographical boundaries the Conference is being held been notified? Yes No
If yes, who was contacted? Zong Sha Beijing Section

9. Has an IEEE Conference Insurance Form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telephone number.

CONFERENCE CHAIRMAN Zong Sha (China) Russ Eberhart (USA) Tel.No. 5001144 ext 2310
Address Chinese Inst. of Electronics, Nongzhanguan Nanlu, No. 12,
Room 2310, Beijing 100026, China Fax.No. 86-1-5005233

INFORMATION CONTACT Russ Eberhart (USA) Tel.No. 919-541-7124
Address Research Triangle Institute
PO Box 12194, Research Triangle Park, NC Fax.No. _____
27709

COMMITTEE MEMBERS

If available, please attach to this form a complete list of Conference Committee members, their titles, addresses, and telephone numbers.

SUBMITTED BY: Roy S. Nutter, Jr., Chairman Tel.No. 304/293-6371
Address West Virginia University, Dept of Electrical & Computer Engg.
825 Engineering Sciences Bldg, Morgantown, WV 26506 Fax.No. 304/293-5024

Conference Position Treasurer (USA)

SIGNATURE R S Nutter Date 6/5/92

RETURN TO: IEEE CONFERENCE SERVICES
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.
FAX: (908) 562-1571
KEEP A COPY FOR YOUR RECORDS

IEEE TECHNICAL ACTIVITIES
 IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART I: INCOME

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All income items may be expressed in either ~~U.S.~~ Dollars or in local currency.

Full title of Conference 1992 International Joint Conference on Neural Networks - Beijing
 (IJCNN '92 - Beijing) _____ Dates of Conference Nov 3-6, 1992

INCOME

REGISTRATION FEES	Quantity	Fee		Budget	Interim Report	Final Report
In Advance-Members	10	x 150	=	\$ 1500	\$ _____	\$ _____
In Advance-Nonmembers	0	x 200	=	0	_____	_____
In Advance-Reduced Rate	0	x 60	=	0	_____	_____
At Conference-Members	5	x 200	=	1000	_____	_____
At Conference-Nonmembers	2	x 250	=	500	_____	_____
At Conference-Reduced Rate	1	x 90	=	90	_____	_____
Total Registrants	<u>17</u>	Total		<u>\$ 3090</u>	<u>\$ _____</u>	<u>\$ _____</u>
CONFERENCE PUBLICATION SALES						
To Members	_____	x _____	=	\$ _____	\$ _____	\$ _____
To Nonmembers	_____	x _____	=	_____	_____	_____
To IEEE Hq.	_____	x 0	=	_____	_____	_____
Total Copies	_____	Total		<u>\$ 0</u>	<u>\$ _____</u>	<u>\$ _____</u>
EXHIBITS						
Tables	_____	x _____	=	\$ _____	\$ _____	\$ _____
Booths	_____	x _____	=	_____	_____	_____
Booths	_____	x _____	=	_____	_____	_____
	_____	x 0	=	_____	_____	_____
		Total		<u>\$ 0</u>	<u>\$ _____</u>	<u>\$ _____</u>
SOCIAL FUNCTIONS						
(Itemize by event on separate sheets.)		Total		<u>\$ 0</u>	<u>\$ _____</u>	<u>\$ _____</u>
ALL OTHER (List here or attach details.)						
_____				\$ _____	\$ _____	\$ _____
_____				_____	_____	_____
_____				_____	_____	_____
		Total		<u>\$ 0</u>	<u>\$ _____</u>	<u>\$ _____</u>
		TOTAL INCOME		<u>\$ 3090</u>	<u>\$ _____</u>	<u>\$ _____</u>

E: BE SURE TO COMPLETE AND RETURN ALL FINANCIAL FORMS TOGETHER ("SUMMARY REPORT", "PART I: INCOME", "PART II: EXPENSE" AND "SOCIAL FUNCTIONS").

RETURN TO: IEEE CONFERENCE SERVICES
 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

KEEP A COPY FOR YOUR RECORDS
 Robert J. Marks II Library Archive

IEEE TECHNICAL ACTIVITIES
 IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART II: EXPENSE

form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to the accurate projection of your Conference's net surplus or loss.

E: All expense items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference 1992 International Joint Conference on Neural Networks - Beijing
 (IJCNN '92 - Beijing) Dates of Conference Nov. 3-6, 1992

PROMOTION	Budget	Interim Report	Final Report
Printing/Call for Papers	\$ 3000	\$ _____	\$ _____
Printing/Advance Program	_____	_____	_____
Printing/Final Program	_____	_____	_____
Mailing Lists/Labels	1200	_____	_____
Postage	800	_____	_____
Other _____	_____	_____	_____
Total	\$ 5000	\$ _____	\$ _____
CONFERENCE PUBLICATION			
Conference Record/Digest Printing (China expense)	\$ 0	\$ _____	\$ _____
Author Kits Printing	0	_____	_____
Shipping to Site and IEEE Hq.	0	_____	_____
Total	\$ 0	\$ _____	\$ _____
EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)	Total	\$ 0	\$ _____
SOCIAL FUNCTIONS (Itemize event on separate sheets.)	Total	\$ 0	\$ _____
ADMINISTRATION			
Insurance & Bonding	\$ _____	\$ _____	\$ _____
Security & Guard Service	_____	_____	_____
Communication Equip. Rent & Operator	_____	_____	_____
Management, Secretarial Services	500	_____	_____
Office Equip. Rental	_____	_____	_____
Printing forms, Tickets, Stationery, Etc.	_____	_____	_____
Posters, Signs, Badges, Etc.	_____	_____	_____
Telephone	1000	_____	_____
Transportation	_____	_____	_____
Gratuities, Etc. (Attach Details)	_____	_____	_____
Total	\$ 1500	\$ _____	\$ _____
ALL OTHER			
Committee Expenses	\$ _____	\$ _____	\$ _____
Other (Attach Details)	_____	_____	_____
Total	\$ 0	\$ _____	\$ _____
TOTAL EXPENSES	\$ 6500	\$ _____	\$ _____

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: U.S. Dollars

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars - at the current conversion rate when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name Roy S. Nutter, Jr Tel. No. (304) 293-6371
 Address West Virginia University, Dept of Electrical & Computer Engg. PO Box 6101, Morgantown, WV
 Conference Position IEEE NNC Treasurer, Finance Chair USA for IJCNN '92-Beijing 26506-6101

SIGNATURE R S Nutter Date 6/5/92

:: BE SURE TO COMPLETE AND RETURN ALL FINANCIAL FORMS TOGETHER ("SUMMARY REPORT", "PART I: INCOME", "PART II: EXPENSE" AND "SOCIAL FUNCTIONS").

RETURN TO: IEEE CONFERENCE SERVICES
 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

IEEE TECHNICAL ACTIVITIES

SUMMARY FINANCIAL REPORT FOR IEEE SPONSORED OR COSPONSORED CONFERENCES

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference 1992 International Joint Conference on Neural Networks - Beijing
(IJCNN '92 - Beijing) 2. Dates of Conference Nov 3-6, 1992
3. Location of Conference (full name and address) _____

TYPE OF REPORT / CURRENCY USED

4. Indicate type of report by checking one box:
 Budget Interim Report Final Report
5. All income and expense figures below must in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.
Local currency: _____ Conversion rate: _____ Date of Conversion rate: _____

INCOME

	Budget	Interim Report	Final Report
6. Registration Fees	\$ 3090	\$ _____	\$ _____
7. Conference Publication Sales	0	_____	_____
8. Exhibits	0	_____	_____
9. Social Functions	0	_____	_____
10. All Other Conference Receipts	0	_____	_____
11. Total Conference Income	3090	_____	_____
12. Advance Loans	3000	_____	_____
13. Total Receipts	\$ 6090	\$ _____	\$ _____

EXPENSE

	Budget	Interim Report	Final Report
14. Promotion	\$ 5000	\$ _____	\$ _____
15. Conference Publications	0	_____	_____
16. Exhibits	0	_____	_____
17. Social Functions	0	_____	_____
18. Administration	1500	_____	_____
19. All Other Conference Expenses	0	_____	_____
20. Total Conference Expense	6500	_____	_____
21. Loan Repayments	3000	_____	_____
22. Total Outlays	\$ 9500	\$ _____	\$ _____

SURPLUS / (LOSS)

23. Total Receipts (13) \$ 6090 24. Total Outlays (22) \$ 9500
25. Surplus (Loss)-(Item 23 less Item 24) \$ 3410

POST CONFERENCE DISTRIBUTION

Cosponsor Entity	% Share	\$ Distributed
a. IEEE	100	Total (3410)
b. _____	_____	_____
c. _____	_____	_____
d. _____	_____	_____
Surplus (Loss)		\$ (3410)

CONFERENCE FINANCIAL INSTITUTION

Name of Bank _____
Address _____
Conference Account Title _____ Account No. _____
Have you requested IEEE Conference Insurance? Yes No

SUBMITTED BY:

Name Roy S. Nutter, Jr. Tel.No. () 293-6371
Address West Virginia University, Dept of Electrical & Computer Engg., PO Box 6101, Morgantown, WV
Conference Position IEEE NNC Treasurer, Finance Chair (USA) IJCNN '92 - Beijing WV 26506-6101

SIGNATURE Roy S. Nutter Date 6/5/92

RETURN TO: IEEE CONFERENCE SERVICES
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

KEEP A COPY FOR YOUR RECORDS

A G R E E M E N T

From: rsn@

Subject: Forwarded mail...
To: rsn@faculty.coe.wvu.wvnet.edu
Date: Thu, 16 Apr 92 17:10:22 EDT

STRUCTURE OF IJCNN '92 - BEIJING

Following is a structure for the neural networks meeting in Beijing (IJCNN '92 - Beijing). The main points are following:

I. Name of the conference: 1992 International Joint Conference on Neural Networks - Beijing (IJCNN '92 - Beijing)

II. Participating Societies:
The IEEE Neural Networks Council
The China Neural Networks Council
The International Neural Network Society
The IEEE Beijing Section

Due to the termination of the agreement between IEEE NNC and INNS, there will be no leading society, and no direct or special cooperation between IEEE NNC and INNS. Both organizations will cooperate with CNNC separately and bilaterally.

III. Collection of papers:
Both IEEE NNC and INNS will collect papers and register participants independently outside China. CNNC will collect papers and register participants within China. All camera-ready papers must be sent to CNNC before the end of June, 1992. CNNC will be responsible for printing the proceedings of the conference.

IV. Financial Relationship:

1. Registration fee structure:

	before Sept. 30	after Sept. 30
Member	US \$325	US \$375
Non-member	375	425
Student	120	120

2. The registration fees of attendees collected by IEEE NNC will be divided between CNNC and IEEE NNC. IEEE NNC will retain US \$200 for each non-student attendee and \$60 for each student attendee. The balance will be transferred to CNNC no later than one month before the commencement of the conference for those registrations received by that time, and within one month following the conference for those registrations received later. The same division also will be applied between the CNNC and INNS. There will be no financial relationship between IEEE NNC and INNS.

V. Responsibilities:

CNNC:

1. Proceedings printing
2. Conference rooms, coffee breaks, hotel selection

3. Collection of papers and registration of participants in China
4. Transportation between airport and hotel
5. Post-conference tours, local tour, technical tour
6. Exhibition

IEEE NNC:

1. Collection of papers and registration of participants outside China
2. Call for papers printing and advertisement outside China
3. Cooperation with CNNC to organize local tours, post-conference

tours, and the exhibition. The CNNC will have fiscal responsibility: the CNNC will receive surplus funds from these events, and be responsible for any financial loss of these events.

4. Post-conference sales of the Conference Proceedings through the IEEE Book Broker Program at IEEE Headquarters.

INNS:

1. Same as IEEE NNC.
2. Same as IEEE NNC.
3. Organize tutorial program, and have fiscal responsibility for it, receiving any surplus funds and being responsible for any financial loss.

VI. Conference Organization:

General Chair: Prof. Wu You Shou

General Co-Chair: Dr. Eberhart

" " Prof. Amari

Program Chair: Prof. Zhong Yi Xin

Program Co-Chair: Dr. Harold Szu

" " One scientist from IEEE NNC

Organizing Chair: Prof. Zong Sha

VII. Conference Site:

Will be selected by CNNC before April 15

- VIII. All the materials for the second call and final call will be sent to the IEEE NNC and INNS by the end of April, 1992, by CNNC.

*****NOTE: Approvals by the IEEE NNC and CNNC below do not imply or indicate in any way approval or disapproval by the INNS.

Approved by the IEEE NNC
on March 19, 1992

Approved by the CNNC
on March 21, 1992

Original signed by:

Original signed by:

Russell C. Eberhart
President, IEEE NNC

Prof. Sha Zong
Organizing Chairman IJCNN '92 Beijing

ATTACHMENT
#10

Video Tutorial: Status Report

Second Report, Baltimore 1992

64

By M. A. El-Sharkawi

Department of Electrical Engineering, FT-10

University of Washington

Seattle, WA 98195

Phone: (206) 685-2286

FAX: (206) 543-3842

e-mail: elsharkawi@ee.washington.edu

Objectives of Video Tutorials

- o To produce quality tutorial on selected topics in advanced technologies such as Neural Networks, Fuzzy Systems and control, Genetic Algorithm and Virtual Reality.
 - All presentation will be made in studio environment
 - Only quality presentation materials (Slides and overhead) will be used.
 - Selected speakers must be very knowledgeable, talented and respected in their field

- o Materials for Video Tutorials must have one of the following basic components
 - Pioneer research (Topic oriented)
 - Instructional (Area oriented)
 - Advanced concepts (Cutting edge and newly emerged technologies)
 - Application to real world problems

- o Quantity is not the objective of this *ad hoc* committee

50

Role of the NN Council

- o To establish the Video Tutorial Committee
- o To approve the tutorial budget
- o To partially fund up to 5 programs per year
- o To advertise the tutorial in the Council news letter
- o To suggest topics and speakers to the Video Tutorial Committee

51

Role of IEEE Educational Activities Board

- o To coordinate logistics with speakers
- o To coordinate with local production units capable of delivering professional products
- o To coordinate the pre-production work of the presenters, such as graphics and slides
- o To finance most of the cost
- o To advertise and market the tape worldwide

Role of the Video Tutorial Committee

- o To select topics with wide interest
- o To select speakers
- o Maintain the cost of the tape to a minimum
- o Coordinate the taping activities with IEEE
- o To do quality control
- o To monitor and adjust the budget
- o To allocate the discretionary fund on case by case basis

Proposed Budget per title(Assuming 150 copies sold)

Prepared by Peter Wiesner of IEEE Educational Activities Department
Approved by the NNC in Seattle, 1991

Item	Cost (Discretionary)
TV recording and editing	\$ 3,500
Honorarium for presenter	\$ 1,500 (\$ 1,000)
Printing of presentation material	\$ 800
Producer fee	\$ 1,725
Promotion	\$ 1,500
Duplication (150 copies)	\$ 3,750
Salaries and Overhead	\$ 4,500
Total Tape Cost	\$16,275

Sale price and Royalties

- o \$ 89.95 for members of IEEE (\$99 was proposed in Seattle)
- o \$ 119 for non-members
- o Most sales are probably for members

55

Amount invested by NN Council per title (\$)	Royalties per copy (\$) (First 150 copies)	Royalties per copy (\$) (Each additional copy)
375	2.5	2
750	5.0	4.0
1,500	10.0	8.0
3,000	20.0	16.00

Approved Motion (Seattle, 1991)

" The NN council hereby approve the following items regarding the subject Video Tutorial:

1. Objectives of Video Tutorials
2. Role of IEEE Educational Activities Board
3. Role of NN Council
4. Role of the Video Tutorial Committee
5. Video Tutorial Budget
6. Video Tutorial Royalties Breakdown
7. Level of funding requested from the NN Council (\$3,000 per title for up to 5 titles)"

NN Pioneer Lectures Series

Sponsor: NNC

Coordinators: M. A. El-Sharkawi and Peter Wiesner.

1. Teuvo Kohonen: "Adaptive Vector Quantization and Neural Networks," Completed in May 1992 at Helsinki University Facilities. It is in the editing stage.
2. Bernard Widrow: Is scheduled for June/July time period at Stanford University's Instructional Television Network.
3. Stephen Grossberg: Negotiations are continuing regarding the quality of visual material for video production.

THE THEORY AND APPLICATIONS OF FUZZY LOGIC

**Sponsors: NNC (three lectures) and IEEE
Educational Activities Department**

Coordinator: James Bezdek and Peter Wiesner

- 58
- 1 "Introduction to Fuzzy Set Theory and Fuzzy Logic: Basic Concepts and Structures," presented by Dr. Enrique Ruspini, SRI International
 - 2 "Fuzzy Logic: Advanced Concepts and Structures," presented by Dr. Lotfi Zadeh, University of California-Berkeley
 - 3 "Information Processing with Fuzzy Logic," presented by Pierro Bonissone, General Electric CR&D

THE THEORY AND APPLICATIONS OF FUZZY LOGIC (Continue)

- 4 "Fuzzy Logic and Neural Networks for Control Systems,"
presented by H.R. Berenji, NASA Ames Research Ctr.
- 5 "Fuzzy Logic and Neural Networks for Pattern Recognition,"
presented by James C. Bezdek, University of West Florida
- 6 "Fuzzy Logic and Neural Networks for Computer Vision,"
presented by Professor James Keller, University of Missouri

Status:

Tapes have been edited and will be sent to M. A. El-Sharkawi for
final review by the end of June, 1992.

Promotion of Video Tapes:

- Pre-publication offer at the 1992 FUZZ-IEEE Conference
- Direct mail to the conference attendees FUZZ-IEEE and ICNN.
- Joint promotion of Fuzzy Logic and the Pioneer Series of about 10,000-15,000 in early September (prime time for universities and year-end spending).
- Tapes will be sold individually as well as a multi-tape series.

Proposed Future Videos:

1. Applications Series

- Proven Applications in Laboratories or industry
- Have wide interest
- Explicitly presented

2. Selected topics

- Virtual Reality
- Genetic Algorithms
- Evolution Algorithms

Now through June 12
Save 15%!

THE THEORY AND APPLICATIONS OF FUZZY LOGIC

Six video tutorials on one of today's hottest topics!

Order these video tutorials now at this discounted conference price. All six of the tutorials were recorded at the FUZZ-IEEE conference on March 8-12. For the biggest savings, order all six at once over \$50.00 on the set—or order individually and save \$19.00 each. Hardcopy visuals are included with each tutorial and all are available in NTSC and Pal Standards. Tapes will be made available by June 1, 1992.

✓ Check the items you would like to order below

THE THEORY AND APPLICATIONS OF FUZZY LOGIC (ALL SIX VIDEOS)
Product Number: HV0256-8 ISBN: 0-7803-0331-8
\$382.45 Member
\$552.60 List

INTRODUCTION TO FUZZY SET THEORY AND FUZZY LOGIC; BASIC CONCEPTS AND STRUCTURES
Dr. Enrique Rusplni, SRI International

Product Number: HV0257-6
ISBN: 0-7803-0332-6
Member Price: \$76.45
List Price: \$110.45

FUZZY LOGIC AND NEURAL NETWORKS FOR CONTROL SYSTEMS
H. R. Berenji, NASA Ames Research Cnt.

Product Number: HV0260-0
ISBN: 0-7803-0335-0
Member Price: \$76.45
List Price: \$110.45

FUZZY LOGIC: ADVANCED CONCEPTS AND STRUCTURES
Dr. Lotfi Zadeh, UC/Berkeley

Product Number: HV0258-4
ISBN: 0-7803-0333-4
Member Price: \$76.45
List Price: \$110.45

FUZZY LOGIC AND NEURAL NETWORKS FOR PATTERN RECOGNITION
James C. Bezdek, University of West Florida

Product Number: HV0261-8
ISBN: 0-7803-0336-9
Member Price: \$76.45
List Price: \$110.45

INFORMATION PROCESSING WITH FUZZY LOGIC
Pierro Bonissone, General Electric CR & D

Product Number: HV0259-2
ISBN: 0-7803-0334-2
Member Price: \$76.45
List Price: \$110.45

FUZZY LOGIC AND NEURAL NETWORKS FOR COMPUTER VISION
Prof. James Keller, University of Missouri

Product Number: HV0262-6
ISBN: 0-7803-0337-7
Member Price: \$76.45
List Price: \$110.45

Check the videos you wish to order, fill in data and mail to: IEEE, 445 Hoes Lane, PO Box 1331, Piscataway, NJ 08855-1331 USA

PAYMENT:

- I am an IEEE Member. Please Bill me (\$25 minimum). Nonmembers must prepay.
 - Check Enclosed (payable in US dollars, drawn on a US bank)
- Charge My: Visa MasterCard
 American Express Diners Club

Acct #: _____ Exp. Date _____
Sign here to validate order _____

IEEE Member #: _____
Name: _____
Company: _____
Address: _____

Handling Charges/Tax: For orders \$75.01 to \$100., add \$6.; \$100.01 to \$200., add \$8.; \$200.01 and up, add \$15.00. If you pay by check, you must add correct handling charge (and state sales taxes in CA, DC, NJ, and NY) to your payment. Canadian residents, please add 7% GST (Reg. # 125634188). If you are invoiced, or charge your order, correct handling charges and tax will be added to your bill. Overseas must ship AirFright. Call for charges.

#12

DISCUSSION ITEM

**COMPUTER SOCIETY PARTICIPATION IN THE
IEEE NEURAL NETWORKS COUNCIL**

Duncan H. Lawrie
1991 President
Chair, Intersociety Cooperation Committee

The IEEE Neural Networks Council was formed several years ago, with the participation of several IEEE technical societies. The Computer Society is a constituent society of the Neural Networks Council but, for reasons which are not now well-understood, did not join the council. Neural networks and other forms of intelligent systems work is obviously central to the field of interest of the Computer Society. Neural network research and applications are frequently covered in society periodicals, including *Computer*, *IEEE Expert* and *IEEE Transactions on Knowledge and Data Engineering*. The IEEE publishes a transactions on neural networks. Out of 6,700 subscribers, over 4,000 are Computer Society members. In addition, the IEEE Technical Activities Department recently approved an additional transactions to IEEE publications in fuzzy systems.

The following resolution is recommended:

MOVED, that the Board of Governors of the IEEE Computer Society approves the society joining the IEEE Neural Networks Council, and authorizes the president to execute all necessary documents and agreements to make the society a full member of the Council.

DHL:lsb
May 14, 1992

63

Draft
6/5/92

Advantages of Remaining an IEEE Council

Russ Eberhart

June 1992

What follows is an attempt to articulate my observations and thoughts relative to whether the Neural Networks Council (or Computational Intelligence Council, or ??? Council) should become a Society of the IEEE. It is my belief that at least for now, we can better serve our members as a Council.

With the addition of the Power Engineering Society and the Computer Society, our Council now has 14 member societies. At least one additional society (Social Implications of Technology Society) is expected to petition for membership in the next few months. This gives our council representation from approximately one-half of all 330,000 members of the IEEE.

This broad representation from across the IEEE puts us in the unique position of being able to be responsive to a wide range of interests. Having two-year appointments to our AdCom from each of the member societies assures us of a constant flow of new ideas and fresh talent.

If we became a Society, I believe that our focus would tend to gravitate towards only a few areas. We would tend to become an "old boy" (or "old girl") organization.

We would become just another society, in competition with all 35 or so of the other societies for membership and participation. We would no longer enjoy the inter-society support for our conference and publication activities.

As a Council, we can do anything a Society can do. We hold major conferences and small forums. We publish Transactions. We publish a newsletter. We are represented on IEEE boards and councils the same as we would be if we were a Society. And we *don't* have to worry about membership fees.

We can support our constituent societies in areas as diverse as neural networks, fuzzy systems, genetic algorithms and virtual environments. And we tend to get the "cream of the crop" as members of our AdCom and Standing and AdHoc Committees.

The technologies we represent cannot, I believe, be surgically removed from the various Societies and merged into a unified, focused organization. I believe we better serve our constituents by emphasizing our diversity and responsiveness.

I also believe that the proliferation of societies in the IEEE needs serious reconsideration. Perhaps the days are past when all members' interests can be served by the pseudo-line organization of the societies. Maybe it's time for the IEEE to become more of a technically-integrated organization.

REVISED
SUMMARY OF ACTIONS
Technical Activities Board
August 1, 1992

(PLEASE NOTE: Disregard the TAB Summary of Actions previously sent out as several items have been expanded for clarity.)

The following actions were taken during the Technical Activities Board meeting held August 1, 1992 at John Ascuaga's Nugget, Sparks, Nevada.

1. Approved the establishment of the IEEE Lasers and Electro-Optics Society Outstanding Chapter Service Award.
2. Approved revisions to the following awards:
 - o IEEE Engineering in Medicine and Biology Society Student Regional Finalist Awards
 - o IEEE Engineering in Medicine and Biology Society Student Open Competition Finalist Awards
 - o IEEE Engineering in Medicine and Biology Society 1st, 2nd and 3rd Place Student Competition Awards
3. Reaffirmed approval of the new Transactions on Rehabilitation Engineering, sponsored by the IEEE Engineering in Medicine and Biology Society, and the new Parallel and Distributed Computing Technology and Applications Magazine, sponsored by the IEEE Computer Society, for publication beginning in 1993.
4. Endorsed for recommendation of approval by the IEEE Board of Directors modifications to IEEE Bylaws 310 governing the operations of the Technical Activities Board to reflect changes in the TAB structure as approved by TAB during its April, 1992 meeting.
5. Approved modifications to the TAB Council and Committee Charters incorporating the changes in the TAB structure as approved by TAB during its April, 1992 meeting.
6. Based on revisions to the TAB structure, approved a revised TAB Meetings Format that will condense the meeting series effective in 1993.
7. Approved redefining the APP income distribution based on the smaller of the list price or the price calculated from the number of equivalent pages and the linear regression fit to the list prices of all publications in the package.

TAB Summary of Actions
Page 2

8. Endorsed for recommendation of approval by the IEEE Board of Directors the formation of an Institute-wide Ad Hoc Committee to address issues relating to the impact of electronic dissemination of IEEE Publications.
9. As requested by the IEEE Publications Board, endorsed for recommendation of approval by the IEEE Board of Directors modifications to the following IEEE Bylaws:
 - o 307 - governing the operations of the Publications Board
 - o 700 - delegating publication approval authority to the Publications Board
10. As requested by the IEEE Publications Board, endorsed for recommendation of approval by the IEEE Board of Directors modifications to the following IEEE Policy Statements:
 - o 6.4.F - delegating approval authority of proposals for publishing S/C publications outside of Headquarters to the Publications Board
 - o 6.7 - delegating responsibility for administering advertising policy to the Publications Board
 - o 6.9 - delegating responsibility for administering Page Charge Policy to the Publications Board
 - o 6.11 - delegating responsibility for administering Press Royalty Policy to the Publications Board
 - o 6.12 - governing quality standards of magazines
 - o 6.16 - delegating responsibility for administering IEEE manuscript withdrawal charges to the Vice President - Publications
11. As requested by the TAB Periodicals Council, endorsed for recommendation of approval by the IEEE Board of Directors modifications to IEEE Policy Statements 6.12.A - Approval Procedures for New Magazines and 6.13.A - Requirements for Starting New Publications. These Policy revisions will be forwarded to the Publications Board for endorsement prior to the December 1992 meetings.
12. TAB accepted the 1993 no deficit budget that includes net reductions in volunteer activities and staff activities and an anticipated increase in the net income of TAB programs. In its continuing effort to help the IEEE General Fund, TAB's 1993 entitlement will be reduced by \$612K, for a net of \$1180K.

TAB Summary of Actions
Page 3

13. Approved a resolution that \$362K of 1993 contributions to the IEEE General Fund be expensed out of TAB Operating Budget and reserves and \$250K from the All Periodicals Package.
14. Recommended the 1993 TAB Budget for approval by the Board of Directors.
15. As requested by the IEEE Publications Board, approved the IEEE Dielectrics and Insulation Society's request to change the title of IEEE Transactions on Electrical Insulation to IEEE Transactions on Dielectrics.
16. Accepted the reports of the TAB Society Review Committee on the review of the following Division II entities:
 - o IEEE Dielectrics and Electrical Insulation Society (DEIS)
 - o IEEE Power Electronics Society (PEL)
17. Approved a \$23K expenditure from the TAB New Ventures Fund in support of the development of five new TAB/IEEE Press Books from tutorials and workshops with emphasis on emerging technologies and design and applications.
18. Requested the IEEE Treasurer to examine the IEEE process for paying bills to the Societies/Councils promptly.
19. Accepted the document, "The Value-Added by IEEE Technical Activities to the Societies and Technical Councils."
20. Requested the Vice President - Publications to develop a procedure for handling appeals at the Institute level on decisions made by editors of IEEE Publications.
21. Elected John Morris as Society Presidents' Forum Chair for the term 1993.
22. Elected Jan Brown and Lloyd (Pete) Morley as Division Director Representatives to the TAB Nominations and Appointments Committee for the term mid-year 1992-1994.
23. Elected Randall L. Geiger and Gerald F. Harris as Society President Representatives to the TAB Nominations and Appointments Committee for the term mid-year 1992-94.
24. As requested by the TAB Liaison Council, approved a request that Societies be encouraged to take steps to create specific mechanisms for assisting "at risk" scientists and engineers in Eastern Central Europe.

TAB Summary of Actions
Page 4

25. Requested the IEEE Board of Directors to pursue the strategic issue considered at the IEEE Strategic Planning Retreat to decouple the IEEE global organization from IEEE US Activities.
26. Endorsed for recommendation of approval by the Board of Directors a proposal to change the method used to calculate TAB's entitlement by replacing the 10.3% of member dues with a per member allocation which for 1993 will result in a total of \$1180K. The allocation per member will be determined annually by TAB at an amount not to exceed the (1993) base amount indexed by the U.S. Consumer Price Index.
27. Approved modification to the Voting Members section of the TAB Finance Committee Charter to reduce the Members-at-Large by two and to add two Society President Representatives from the five that sit on TABAC.
28. Approved a plan for TABAC Society President Representatives to be actively involved in the TAB budget planning and review process and to act as primary interface with S/C Presidents.
29. Requested the TAB Liaison Council to organize a Society Chapters Coordinators meeting in late 1992 or early 1993.
30. Endorsed for recommendation of approval by the IEEE Board of Directors a proposal to reduce the affiliate fee increase under consideration by the IEEE Executive Committee from \$3 to \$1.
31. As requested by the TAB Ad Hoc Committee on Affiliates, approved a resolution that Societies consider use of the affiliate/Society member program as part of its efforts to promote global membership.
32. As requested by the TAB Ad Hoc Committee on Affiliates, referred to the TAB Strategic Planning and Review Committee a resolution that Societies be encouraged to include in their long-range/strategic plans consideration of ways to encourage active participation of non electrical and electronics engineers in their programs.
33. As requested by the TAB Ad Hoc Committee on Affiliates, approved a resolution to support the concept proposed by the RAB Student Activities Committee that students be given the option to replace SPECTRUM with a Society membership at no additional fee.

TAB Summary of Actions
Page 5

34. For schools that do not have an appropriate department for formation of an IEEE Student Branch, approved a resolution that any Society wishing to pursue a student multidisciplinary program, funded by the participating Society(s), TAB would welcome a pilot program. The results of this pilot program to be reported back to TAB.
35. Postponed a proposal that the term "Society affiliate" be replaced with the term "Society Member" to the next TAB meeting.
36. Opposed recommendation of IEEE Executive Committee to impose mandatory half dues for current Life Members.
37. Reached a consensus that current Life Members should be encouraged to make voluntary contributions and consider mechanisms whereby Life Members may select different levels of services commensurate with a corresponding level of payment.
38. As requested by the RAB/TAB Transnational Committee, approved a proposal to take the necessary action to define the mission of IEEE relevant to a global constituency, and encourage initiatives of volunteers in Regions 8-10 to form new IEEE technical entities.
39. As requested by the RAB/TAB Transnational Committee, referred to the IEEE Strategic Planning Committee a proposal for a thorough analysis of alternative schemes for geographical and technical organizations that adequately represent those membership characteristics.

**CENTER FOR
THE HISTORY
OF ELECTRICAL
ENGINEERING**



The Institute
of Electrical
and Electronics
Engineers, Inc.
and Rutgers-
The State
University of
New Jersey

March 11, 1992

Dr. Russell C. Eberhart
President, Neural Networks Council
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Dear Dr. Eberhart:

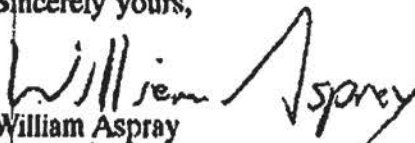
Perhaps you have heard about the revitalization of the IEEE Center for the History of Electrical Engineering over the past three years. The Center has found a new home on the Rutgers University campus, hired a new and larger staff, and taken on a number of new projects. Enclosed for your information are two documents describing our present situation.

Now that we have momentum in the right direction, we are adjusting our program to focus in on the most important issues of electrical engineering history. One of our first tasks will be to write a one-volume history of electrical technology, conceived broadly to take in the professional interests of all IEEE members. We are planning to expand vastly our oral history program in order that we do not lose the precious memories of our most distinguished electrical engineers and computer scientists of the past half century. We will also write a number of books and articles on important aspects of electrical technology and eventually revise the one-volume history based upon our newly acquired knowledge.

To do all this is a daunting task, and I am writing to ask for your help. As president of the Neural Networks Society, I request that you appoint someone to work as the society's liaison with the history center. The person you appoint would be best qualified if he or she had a wide knowledge of the technical interests represented by your society and a wide set of contacts within the society and the engineering community. Your liaison will be asked to help us identify key topics for investigation, prioritize our many choices of candidates for oral history, lead us to sources, and generally provide us with technical guidance to assure that we serve your society well. This job will not require a great deal of time, and we do not anticipate any travel for meetings. We do ask that the liaison be willing to make a long-term commitment to work with us, however, because this historical program will take a long time to develop and continuity is important.

I look forward to working with your society in order to better understand and disseminate the history of our field. Please do not hesitate to contact me if you have any questions.

Sincerely yours,


William Aspray
Director

Dear Russ:

Since I was placed in the difficult role of ombudsman, I have spoken to Bob Marks and you, have read Pat Simpson's review, as well as other reviews of Bart Kosko's book, and finally, have read the detailed claim lodged by Dr. Kosko.

What is the issue I'm trying to arbitrate?

The issue is certainly no longer whether or not Mr. Simpson's book review is fair or accurate. I would agree that all critical analysis can be subject to diverse opinion. The issue is also not whether or not the Neural Networks Council's AdCom supports the publishing of this review.

The issue is whether or not, at the very least, a "perceived conflict of interest" can be successfully argued, and it does appear that Bart Kosko has adequate documentation to support this claim. Even if one allows for his natural bias, the fact that there is bad blood between the author and reviewer is clear. (The expeditious course of action might have been for Mr. Simpson to declare himself ineligible as a reviewer.)

The issue, then further becomes whether or not the IEEE can allow itself to be placed in the middle of the type of feud--and more to the point--whether or not the IEEE can be in a position where it does not support its own code of ethics--

"2. to avoid real or perceived conflicts of interest whenever possible, and to disclose them to affected parties when they do exist." (from IEEE Code of Ethics)

The answer is, of course, no.

Russ, perhaps I am passing the buck back to you, but as President of the IEEE Neural Networks Council, I would hope that you would relieve the IEEE of this untenable position and effectively see that the Simpson review is not published in an IEEE publication.

Should you wish to pursue the matter further, I am sure John Powers would make himself available to you. A final recourse would be to bring it to the Publications Board on November 1, in West Palm Beach.

We are still holding the September issue--awaiting resolution.

Sincerely,

(s) Phyllis

Phyllis Hall, Staff Director
Publishing Services

cc: Bob Marks
Tom Cain
John Powers
Don Crawley

4

#####

Phyllis refers to the Conflict of Interest. Here, from the IEEE Policy & Procedure Manual, is the definition:

9.9 Conflict of interest

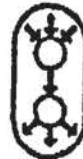
For the purpose of this policy, conflict of interest is defined as any situation in which a member's decisions or votes could substantially and directly affect the member's financial or business interests. It is the responsibility of all IEEE members in any elected, appointed, or volunteer position of an Institute activity to consider each item of business where they have a vote or decision authority to determine if a conflict of interest may exist. Any such recognized potential conflict shall be made known immediately to the person in charge of the activity (or the next higher authority if the member is in charge) who, after consultation with other individuals in the activity, will advise the member of the proper course of action and cause a notation of the action to be entered in the activity's record.

This policy shall also apply to nonmembers who are serving the Institute in some capacity.

#####



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II
Editor-in-Chief

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98038-7138 USA

November 13, 1992

Russell Eberhart, President
IEEE Neural Networks Council
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Video Review

IEEE Transactions on Neural Networks, Editor's Report

1. From November 30, 1991 through November 17, 1992, the *IEEE Transactions on Neural Networks* has received 519 manuscripts (including book reviews and special issue papers, but not letters).
2. Approximately 60% of the *IEEE Transactions on Neural Networks* is published electronically.
3. Delay in publication after receipt of a manuscript by IEEE is from six to eight months. The 10% increase in pages approved during the last AdCom meeting was not received in time for IEEE to process for 1993, and needs to be included in the 1994 budget. Is this increase enough?
4. Page charges are honored each issue from one to six papers each issue. An (incomplete) sample:

January 1992	1 paper	\$770
March 1992	4 papers	\$4290
May 1992	4 papers	\$3520
June 1992	6 papers	\$6950

5. Special Issues (Sept & Nov are half issues)

May 1992	Hardware	(Newcomb & Sanchez-Sinencio)
September 1992	Evolutionary Programming	(Fogel)
November 1992	Recurrent NN's	(Giles & Williams)

6. A report of the actions of Ms. Hall concerning publishing of the Kosko book review is attached.

Sincerely,

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks

Video Review

From marks Tue Sep 15 17:32:19 1992
Received: by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.22) id AA25404; Tue, 15 Sep 92 17:31:12 -0700
Date: Tue, 15 Sep 92 17:31:12 -0700
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9209160031.AA25404@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
Subject: Simpson/Kosko Update
Status: RO

Here's an update.

I am sending this message to those of you who have been involved in the decision as to whether or not to publish the review of Kosko's book penned by Patrick Simpson. As you know, Dr. Kosko asked Ms. Phyllis Hall at IEEE to act as Ombudsman in the manner. Based on reasons and material I have not yet seen, Ms. Hall has decided that there is, indeed, a perceived conflict of interest in the matter. I am, of course, in strong disageement. By unanimous vote, so was AdCom.

It remains unclear who has final authority in the matter. Probably the Board of Directors of IEEE.

Based on Ms. Hall's decision, I have allowed the September issue to go to press without the review. The next step in the matter is up to President Eberhart.

Ms. Hall's letter, reproduced below, speaks for itself. Apparantly, the reality of a situation, according to IEEE policy, is less important than perception. Whether or not the review was 'fair or accurate' is also not an issue. 'A perceived conflict of interest', rather, suffices as a reason for censorship.

Sincerely,
R.J. Marks II, Editor
IEEE Transactions on Neural Networks

%%%%%%%%%%
%%%%%%%%%%

(TYPED FROM FAX COPY)

August 28, 1992

Dr. Russell Eberhart
Research Triangle Institute
P O Box 12192
Research Triangle Park, NC 27709

12/92
 ADCOM



6/11/92

Russ Eberhart, President
 Neural Networks Council
 Research Triangle Institute
 P.O. Box 12194
 Research Triangle Park, NC 27709

Attached : MINUTES OF THE IEEE NEURAL NETWORK COUNCIL (NNC) MEETINGS COMMITTEE held in Room 306 of the Baltimore convention center, June 6, 1992.

Respectfully submitted,

Jim Bezdek 6/11/92

Jim Bezdek, Chair
 NNC Meetings Committee

cc: members of the meetings committee (Karplus, Newcombe, Nutter)

	In Attendance	Location : Baltimore Convention Center, Baltimore. Saturday, June 6 @ 7pm, Room 306.
1	Jim Bezdek, Chair (voter)	
2	Walter Karplus (voter)	
3	Bob Newcombe (voter)	
4	Roy Nutter (voter)	ABSENT
5	Russ Eberhart (voter)	
6	Pat Simpson	
7	Bob Marks	
8	Enrique Ruspini	FUZZ-IEEE '93, ICNN '93
9	Tom Caudell	VRAIS '93, '94
10	Charles Robinson	Orlando WCCI
11	Yianni Attikiouzel	ICNN '95

Item	Item	Action
1	Number of ICNN meetings to hold each calendar year. One in the US and one outside; or one per year, alternating in the US and outside ? (Bezdek).	<p>Motion : There be a world congress on computational intelligence no more often than every three years, beginning with the WCCI in Orlando, 1994. Approved.</p> <p>Motion : In non-WC years such as 1995, 1996, etc., there be at most one each of the following NNC sponsored meetings : FUZZ-IEEE, ICNN, VRAIS, GA/EP; and that this restriction does not preclude co-sponsorship or cooperating status for forums, workshops and the like. Approved.</p>
2	NNC guidelines for contractual services offered by conference management firms (Bezdek)	Pat Simpson agreed to take a first cut at drafting guidelines for all NNC sponsored conferences, one part of which details requirements for contractual services offered to the NNC by conference management firms.
3	Proposal from the San Diego section of the IEEE for hosting the next West Coast NNC sponsored meeting (P. Simpson).	Recommended : P. Simpson will encourage the San Diego section to formulate and submit a proposal for the 1997 world congress.
4	March 8-12, 1992 FUZZ-IEEE '92, San Diego, CA Status Report : (GC = Jim Bezdek)	Financial data are 99% complete. NNC will receive about \$85K surplus; IEEE San Diego Section will receive about \$9K surplus. Karplus opined that this might suggest lowering registration fees in future years.
5	June 6, 1992 GA/NN Forum, Baltimore, Status Report : (R. Eberhart)	Roughly 82 paid attendees, probably will be a surplus situation. No action required.
6	October, 1992 Rostov-on the Don with RNNS Status Report : (W. Snyder)	W. Snyder circulated a preliminary program for this meeting, and speculated that it will probably run a deficit of \approx \$10K.
7	Nov. 3-9, 1992 IJCNN, Beijing PRC Status Report : (Eberhart)	400 papers from inside China have been accepted. INNS has not approved cooperation. Meeting to be held at the Continental Grand Hotel.
8	March 28- April 1, 1993 FUZZ-IEEE '93/ICNN, San Francisco, CA Status Report : (GC = E. Ruspini)	<p>Ruspini filed a large, complete status report on the joint meetings. All contracts have been signed, everything looks pretty good. Requested : \$50 additional seed money. IEEE needs a formal conference formpak completed for ICNN portion - Eberhart to request formpak from Sensi for Ruspini.</p> <p>Motion : \$50K seed to Ruspini : Approved.</p> <p>Motion : Approve budget, pp. 35-38, NNC ADCOM handbook for June 6,7, 1992. Approved.</p>
9	August 17-20, 1993 ICNNASP, Singapore Status Report : (Eberhart)	<p>Motion : Approve budget, pp. 101-103, NNC ADCOM handbook for June 6,7, 1992. Approved.</p>

10	<p>October , 26-29, 1993 ICNN, Nagoya, Japan Status Report : (T. Fukuda)</p>	<p>Fukuda/Amari request use of the name ICNN. Motion : Fukuda advance JICNN as an alternative. If this is not palatable to the Japanese, the meetings committee defers resolution to the NNC Excom. Approved.</p>
11	<p>Sept. 18-22, 1993 VRAIS conference. Seattle, WA Status Report : (PC =Tom Caudell)</p>	<p>Caudell gave a short report on VRAIS '93, and then requested \$20K additional seed money. Motion : \$20K seed to Caudell : Approved.</p>
12	<p>June 24 - July 1, 1994 WCCI, Orlando, FL Status Report : (GC = C. Robinson)</p>	<p>Motion : 4 tracks at the WCCI : Approved. Need to flesh out personnel and inform Robinson at [c.robinson@ieee.org], actioneers as indicated FUZZ-IEEE : GC = P. Bonissone PC = TBD <GC> ICNN : GC = S. Rogers PC = TBD <GC> VRAIS : GC = TBD <caudell> PC = TBD GA/EP : GC = TBD <eberhart> PC = TBD</p>
13	<p>March, 1995 FUZZ-IEEE '95 Proposal : (T. Fukuda)</p>	<p>Disussion of proposal by Sugeno et. al. Motion : FUZZ-IEEE '95 be held in Yokohama, Japan, as a joint meeting with the LIFE meeting IFES, with M. Sugeno as General Chair, Hirota/Fukuda as co-PCs . Approved. Next action : detailed budget to Bezdek</p>
14	<p>October , 1995 ICNN, Perth, Australia Proposal : (Y. Attikiouzel)</p>	<p>Disussion of proposal presented by Y. Attikiouzel. Motion : The 1995 ICNN be held in Perth, Australia, with Y. Attikiouzel as General Chair . Approved. Next action : detailed budget to Bezdek</p>
15	<p>May, 1996 ICNN, Washington, D.C. Status Report: (Jim Bezdek)</p>	<p>Motion : The NNC will hold an ICNN at the property in 1996, with GC/PC to be determined later. Approved. ----- Bezdek to contact Perry Sensi about dealing with the Sheraton for the contract.</p>

Record of email Transactions of the Meetings Committee of the NNC

Date of email	Item of Business	Date and Action
3/18/92	Cooperating status for <i>2nd Annual conference on Evolutionary Programming</i> , Feb. 25-26, 1993, San Diego, request by David Fogel, EP Society.	Approved 3/23/92
3/18/92	Cooperating status for <i>WNN '92</i> , Houston, date not specified, request by M.L. Padgett.	Approved 3/23/92
3/18/92	Cooperating status for <i>WNN '93</i> , Monterey, date not specified, request by M.L. Padgett.	Approved 3/23/92
4/2/92	Cooperating status for <i>Intelligent Vehicles '93</i> , July 14-16, 1993, Tokyo, request by I. Masaki, General Motors.	Approved 4/8/92
4/10/92	<p>Nomi : I am just now catching up with my nnc duties. One thing I am charged with is letting you know what the nnc resolved re: negotiations with conference management agencies. Here is our resolution:</p> <p>In the future, the NNC representative shall make clear to management firms proposing to manage NNC meetings that rates for all rooms and services will be established on a no commission basis, with the exception of complimentary rooms and/or services provided by the vendor to the conference organizing committee for the direct benefit of the conduct of the meeting or the sponsoring organization.</p>	Transmitted with cc to nnc.comm

WILLIAM WONG CPA, ACIS

(4)

AUDITOR'S REPORT TO THE MEMBERS OF
INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

We have examined the Income & Expenditure Statement and Balance Sheet for the Conference organised by the Institute on November 18th to 21st 1991 entitled "International Joint Conference On Neural Networks" based on the records and vouchers made available to us.

In our opinion, the accounts are properly drawn up and give a true and fair view of the state of the Conference's affairs at 31st May 1992 and of its results for the period ended on that date.



W. L. WONG & CO.
Certified Public Accountants,
Singapore

INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

NOTES TO THE ACCOUNTS - 31ST MAY 1992

"INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS"

These notes form an integral part of and should be read in conjunction with the accompanying accounts.

(1) ACCOUNTING POLICIES

(a) Accounting convention

The accounts are drawn up in accordance with the historical cost convention.

(b) Conference income

Conference income is taken up on a cash receipt basis.

(c) Depreciation on fixed asset

No provision is provided for the period under review.

INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS
=====

INCOME & EXPENDITURE STATEMENT
"INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS"
FOR THE PERIOD ENDED 31ST MAY 1992

<u>Income</u>	S\$
Advertising income	16,461.00
Conference income	239,712.30
Exhibition income	8,000.00
Other income	6,926.94
Sales of proceedings	63,573.26
Sponsorship	12,000.00

	346,673.50


<u>Less: Expenses</u>	
Accountancy fee	2,000.00
Advertisement	11,792.34
Auditors' remuneration	800.00
Bank charges	34.46
Exhibition charges	16,475.00
General expenses	1,481.00
Honorarium expenses	7,515.00
Hotel accomodation	149,477.92
Management fees	20,090.00
Outside services	7,627.00
Photocopier charges	350.00
Postage & courier	23,783.12
Printing	87,075.90
Prizes	560.00
Refreshment	400.00
Stationery	3,345.98
Telephone & telex	3,793.73
Transportation	580.00
Travelling expenses	6,439.20
Travelling for speakers	27,238.70

	370,859.35

Deficit for the period	(\$24,185.85)
	=====

Certified correct,

.....
Dr. Low Teck Seng
Chairman

.....

Dr. Tay Teng Tiow
Treasurer

INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

BALANCE SHEET AS AT 31ST MAY 1992
"INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS"

	S\$
<u>Fixed Asset</u>	
Office equipment	1,950.00
<u>Current Asset</u>	
DBS bank autosave account	23,302.91
<u>Less:</u>	
<u>Current Liabilities</u>	
Trade creditor	1,951.76
Accrued expenses	2,800.00
	<u>4,751.76</u>
 Net current asset	 18,551.15
	<u>\$20,501.15</u>
	=====
 <u>Represented by:</u>	
 Seed money	 44,687.00
Deficit for the period	(24,185.85)
	<u>\$20,501.15</u>
	=====

Certified correct,



.....
Dr. Low Teck Seng
Chairman



.....
Dr. Tay Teng Tiow
Treasurer

IJCNN '92 BALTIMORE

JUNE 7 -11, 1992

August 7, 1992

DR. CLIFFORD LAU
OFFICE ONR CODE 1114SE
800 N. QUINCY STREET
ARLINGTON, VA 22217-5000

General Chair
Clifford Lau
Office of Naval Research

Honorary Chair
Bernard Widrow
Stanford University

Program Chair
John Shynk
University of California
Santa Barbara

Finance Chair
Pat Shoemaker
Naval Ocean Systems Center

Publications Chair
Fathi Salam
Michigan State University

Exhibits Chair
Herbert Wang
Rockwell Science Center

Special Sessions Chair
Andrew Penz
Texas Instruments

Tutorials Chair
Richard Andersen
MIT

Local Arrangements
Andreas Andreou
Johns Hopkins Univ.

Volunteers Chair
Nina Kowalski
Johns Hopkins Univ.

Far East Liaisons
Shun-ichi Amari
University of Tokyo
Toshio Fukuda
Nagoya University

European Liaison
Rolf Eckmiller
Univ. of Dusseldorf

IEEE Liaison
Roy Nutter
West Virginia Univ.

INNS Liaison
Judith Dayhoff
Univ. of Maryland

Meeting Management
Nomi Feldman
5665 Oberlin Dr.
Suite 110
San Diego, CA 92121
USA
Tel (619) 453-6222
Fax (619) 535-3880

Dr. Russell C. Eberhart
President, IEEE Neural Network Council
Director of Biomedical Engineering
P. O. Box 12194
Research Triangle Park, NC 27709

Dr. Paul Werbos
President, INNS
Suite 300
1250 24th Street
Washington, D. C. 20037

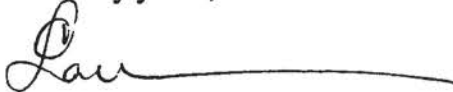
Dear Drs. Eberhart and Werbos:

Enclosed please find a copy of the preliminary financial report for IJCNN'92 which was held at Baltimore in June 1992. At this point, it looks like we may have a surplus of about \$100K, to be divided equally between IEEE/NNC and INNS.

Please be advised that this is **strictly preliminary**. Some known expenses and expected incomes are not yet included in this preliminary report. Thus the surplus may vary for up to \$10K. Also please notice that the \$50K seed money from and its reimbursement to the IEEE NNC is not included.

We are presently in the process of selecting an auditor (a CPA) to audit the accounts. When the auditing is completed, we will prepare a final report and distribute the surplus. If you have any questions, please don't hesitate to call me at (202)696-4961.

Sincerely yours,



Clifford Lau
General Chair

IJCNN'92 Baltimore

Financial Summary
July 17, 1992

Income:

Registration	Code 7.1	286,831.00
Tutorials	Code 7.3	51,630.00
Exhibits	Code 7.4	26,265.00
Publisher Exhibits	Code 7.5	10,875.00
Proceed/Sales	Code 7.6	6,630.00
Misc/Interest	Code 7.7	27,817.07
Total Income		410,048.07

Expenses:

Brochure	Code 1.2	(12,287.33)
Mailings	Code 1.3	(23,951.94)
Advertisement	Code 1.4	(8,259.03)
Public Relations	Code 1.5	(1,520.49)
Food Svcs	Code 2.0	(18,857.77)
Dinner Banquet	Code 2.3	(37,088.87)
Review Process	Code 3.1	(6,029.24)
Proceedings	Code 3.2	(69,050.09)
Programs/Tote Bags	Code 3.3	(11,956.95)
Management Fees	Code 4.1	(37,312.40)
Insurance	Code 4.2	(100.00)
Security	Code 4.3	(4,545.24)
Admin / Supplies	Code 4.4	(11,614.10)
Conv Center Rent	Code 5.1	(12,818.25)
Exhibit Management	Code 5.2	(15,868.73)
Exhibit Marketing	Code 5.3	(1,351.44)
Audio Visual	Code 5.4	(10,871.05)
Tutorial Travel	Code 6.1	(5,889.03)
Tutorial Fees	Code 6.2	(4,500.00)
Tutorial Supplies	Code 6.3	(5,850.97)
Tutorial A/V	Code 6.4	(2,032.50)
Plenary Travel	Code 6.6	(2,397.04)
Committee Travel	Code 6.8	(1,792.00)
Volunteers Expenses	Code 6.9	(1,074.00)
Petty Cash	Code 0.0	(2,500.00)
*** Total Expenses ***		(309,518.46)

Deposits less Expenses 100,529.61



INTERNATIONAL CONFERENCE ON NEURAL NETWORKS
SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
SAN FRANCISCO, CALIFORNIA, MARCH 28 - APRIL 1, 1993



PLEASE REPLY TO:
Meeting Management
5665 Oberlin Drive Suite 110
San Diego CA 92121
Tel.: [619] 453-6222
Fax: [619] 535-3880

August 12, 1992

Russell C. Eberhart
Biomedical Engineering
Research Triangle Institute
P.O. Box 12194
Research Triangle Park NC 27709

Dear Russ,

I would like to update you on the recent developments concerning FUZZY-ICNN'93. Early last week, July 27, Enrique Ruspini called to tell me that he had read an article in the local newspaper reporting that the Hyatt Regency is planning some major renovations. I called the Hyatt Regency Hotel and confirmed that the hotel would be closed during our FUZZY-ICNN'93 Conference dates. I immediately explored other possibilities and discovered that the Hilton Hotel was available for the same dates but with some serious space problems. At this point Steve Marlin and I flew to San Francisco and met with the senior management personnel of both the Hyatt Regency and the San Francisco Hilton.

Together with three members of Meeting Management staff on hand, we began negotiations at the Hyatt Regency. We initially made it clear that IEEE wishes to maintain a positive relationship with the Hyatt Hotel chain but that we found the actions of the hotel unacceptable and detrimental to the FUZZY-ICNN'93 Conference. After four hours of intense negotiations, the Hyatt Regency agreed to the following:

1. To pay 15% of the cost of the initial printing and mailing.
2. To pay the entire cost up to \$6,000 for a new printing which will inform the potential attendees of the change in venue from the Hyatt Regency to the Hilton Hotel.
3. To pay \$15,000 to the San Francisco Hilton to help offset the cost of one of the two receptions (to be noted as a hosted reception by the Hyatt Regency San Francisco).

As you can see, this is a savings to FUZZY-ICNN'93 of approximately \$25,000. In addition, the Hyatt has agreed to offset any labor charges that are over and above ordinary labor charges that would have been charged at the Hyatt.

Page Two

We next met with the staff at the San Francisco Hilton and ironed out all the problems of space and logistics. In addition, we worked out an agreement that is extremely beneficial to the FUZZY-ICNN'93 Conference.

1. Sleeping room rates of \$117 and \$127, single or double occupancy. These rates are \$20 and \$40 less than the rates at the Hyatt for single or double occupancy. The rates are commissionable to the Conference.
2. All exhibit space provided on a complimentary basis, a savings of approximately \$8,000.
3. One complimentary coffee break, a savings of approximately \$3,500.
4. Cost of coffee reduced from \$45 per gallon to \$33 per gallon for two coffee breaks and \$38 per gallon for the remainder of the breaks, a savings of approximately \$5,400.

We hope you will agree that what could have been a very bad situation, has been corrected to an extremely beneficial outcome for FUZZY-ICNN'93. Our negotiations were profitable for the Conference.

Should you have any questions regarding the outcome of these negotiations or what impact they may have on the Conference, please do not hesitate to contact either one of us.

Cordially,

Nomi

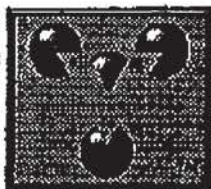
Nomi Feldman
Conference Coordinator

Steven N. Marlin

Steven N. Marlin
Conference Coordinator

cc: James Bezdek
Enrique Ruspini
Perry Sensi
Richard Tong

IEEE - Virtual Reality Annual International Symposium - Seattle, WA - 1993



VRAIS '93

General Chair:
Thomas Rummel
University of Washington

Program Chair:
Thomas Caudell
Boeing Computer Services

Michiaki Hirose
University of Tokyo

Organization Chair:
Robert Marks II
University of Washington

Publisher's Chair:
Mark Soren
University of Washington

Finance Chair:
Dorley Kaplan
Siemens-Quantum Corp.

Local Arrangements Chair:
Mohamed El-Sharkawi
University of Washington

Tutorials Chair:
Blake Hannaford
University of Washington

Publicity Chair:
Carley L. Dunn
SPIE

Exhibits Chair:
Chris Espach
Boeing Computer Services

International Liaisons:
Masahiro Kawahara
Fujitsu Research Institute

Toshio Fukuda
Nagoya University

Meeting Management:
Nomi Feldman
Meeting Management
3665 Oberlin Drive, Suite 110
San Diego, CA 92121
Tel. (619) 453-6222
FAX (619) 533-3880

Robert J. Marks II, Organization Chair
University of Washington
Department of Electrical Engineering, FT-10
Seattle, WA 98195 USA
(206) 543-6990 (office)
543-3842 (FAX).
marks@mlton.u.washington.edu

November 13, 1992

VRAIS Report

Advertisements placed in:

- A. IEEE EXPERT MAGAZINE - AD PLACED AUGUST 31
- B. SPECTRUM MAGAZINE - AD PLACED SEPTEMBER 8, 1992
- C. NEURAL NETWORK CONNECTIONS
- D. IEEE TRANS ON NEURAL NETWORKS

Direct mail: Call for Papers Announcement:

- A. 84,000 BROCHURES WERE PRINTED AUGUST 1992
- B. 80,000 BROCHURES WERE DIRECT MAILED MID-SEPTEMBER AS FOLLOWS:

- 1) TIP LIST
 - 2) SPIE LIST
 - 3) NEURAL NETWORK PAST PARTICIPANTS
- (All mailings included U.S., Canadian, Foreign)

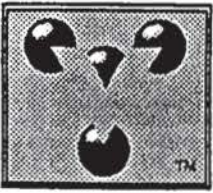
VRAIS Standards: There will be a standards workshop at the conference.

Seed money is direly needed to pay for these services.

Sincerely,

Robert J. Marks II, Organization Chair
'93 VRAIS, Seattle





VRAIS '93

General Chair:
Thomas Furness
University of Washington

Program Chairs:
Thomas Caudell
Boeing Computer Services

Michitaka Hirose
University of Tokyo

Organization Chair:
Robert Marks II
University of Washington

Publications Chair:
Mani Soma
University of Washington

Finance Chair:
Dmitry Kaplan
Siemens-Quantum Corp.

Local Arrangements Chair:
Mohamed El-Sharkawi
University of Washington

Tutorials Chair:
Blake Hannaford
University of Washington

Publicity Chair:
Carley L. Dunn
SPIE

Exhibits Chair:
Chris Esposito
Boeing Computer Services

International Liaisons:
Masahiro Kawahata
Fujitsu Research Institute

Toshio Fukuda
Nagoya University

Meeting Management:
Nomi Feldman
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego, CA 92121
Tel. (619) 453-6222
FAX (619) 535-3880

Robert J. Marks II, Organization Chair
University of Washington
Department of Electrical Engineering
Mail Stop FT-10
Seattle, WA 98195
FAX: (206) 543 3842

July 23, 1992

Russell Eberhart, President
IEEE Neural Networks Council
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Russ,

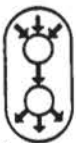
I submit, for your consideration, Meeting Management's contract for VRAIS.

I seek your approval to sign it on behalf of the Council.

Sincerely,

Robert J. Marks, Organization Chair
VRAIS '93

cc: J.C. Bezdek, NNC Meetings Chair
Tom Caudell, VRAIS Program Co-Chair
Carley Dunn, VRAIS Publicity Chair
M.A. El-Sharkawi, VRAIS Local Arrangements Chair
Chris Esposito, Exhibitions Chair
Tom Furness, VRAIS General Chair
Blake Hannaford, Tutorials Chair
Dmitry Kaplan, VRAIS Treasurer
Roy Nutter, NNC Treasurer
Mani Soma, VRAIS Publications Chair



5665 oberlin drive
suite 110
san diego
california
92121

1992 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive
consultants and coordinators
conventions meetings
conferences
symposia

(619)
453-6222
fax (619)
535-3880

m e e t i n g m a n a g e m e n t

July 6, 1992

Robert J. Marks, II
Design Laboratory/ FT-10
Interactive Systems
University of Washington
Seattle, WA 98195

Dear Dr. Marks,

Enclosed is the original and one copy of the contract describing the services that Meeting Management will provide for the **IEEE VIRTUAL REALITY ANNUAL INTERNATIONAL SYMPOSIUM 1993** to be held September 18-22, 1993, in Seattle, Washington.

Upon your review and approval, please sign both copies, retain the original for your files and return the copy to me for our records. If you have any changes or corrections please note those directly on the contract. We look forward to managing this conference in order to make it run smoothly and efficiently with quality service and minimal burden to you.

Cordially,

Nomi
Nomi Feldman
Conference Coordinator

Enclosures

m e e t i n g m a n a g e m e n t

July 6, 1992

**VIRTUAL REALITY ANNUAL INTERNATIONAL SYMPOSIUM (VRAIS)
Seattle, Washington
September 18-22, 1993**

The following services will be provided by Meeting Management for the IEEE VRAIS Conference to be held September 18-22, 1993, in Seattle, Washington.

A. Site Selection

1. Select appropriate space for the Conference, with particular attention to meeting space, sleeping accommodations and comfortable ambiance.
2. Negotiate best possible price for Conference and for registrants.

B. Advance Planning

1. Work with Program Chairs to develop timetable of dates and deadlines.
2. Work with the Program Committees to develop the meeting program format, its timing for promotion and publication, and coordinate the groups involved with the available facilities.

C. Conference Headquarters

1. Serve as secretariat address and office for the conference, before, during and after the meeting throughout the year.
2. Act as clearing center for all correspondence, telephone inquiries, registration, income/expenses, receipts, forms, etc.

D. Program Coordination

1. Coordinate with committees on design of special room arrangements for each session.
2. Contact speakers and session chairs to determine their specific audio-visual requirements and to communicate specific program instructions.
3. Arrange for audio-visual equipment and projectionists for all scientific sessions in accordance with each speaker's requirements.

E. Design and Printing

1. Receive program copy from Program Chairs. Assist in preparation of general copy and supervise printing for preliminary mailings.
2. Arrange for typesetting, graphic design, layout and printing of announcements.
3. Prepare and print advance registration cards and hotel reservation forms to be included in mailings.
4. Assist in the preparation of general copy and supervise printing of the Final Meeting Program.
5. Design, prepare copy and print final program, exhibit program, badges, tickets for the tutorials and social functions, signs, special information material, and conference packets, subject to approval of Committee.
6. Arrange and supervise printing of Proceedings. Camera-ready papers will be provided by presenters.

F. Mailings

Handle all arrangements for mailings. Negotiate with mailing house for best price and service. Supervise completion of mailings.

G. Mailing Lists

Select best sources of mailing lists with guidance of Chairs.

H. Journals

Place announcements and advertisements in relevant journals. Send announcements to secretaries of societies. List of Journals to be provided by Chair.

I. Technical and Scientific Exhibits

1. Assist Exhibit Chair with follow up of his solicitation of exhibitors.
2. Handle all arrangements for exhibitors, including designation of space, formation of booths, decorations, drayage, et al.
3. Communicate with exhibitors regarding booth location, exhibit fees, exhibitor packets, name badges and designation of representatives for attendance to conference.

J. Proceedings

1. Receive abstracts/papers and forward to Program Chair for review. Process and log papers.
2. Send abstracts/papers to reviewers as indicated by Program Chair. Coordinate the review process.
3. Receive decision, acceptance or rejection, from reviewers.
4. Send letters of acceptance or rejection to authors.
5. Select printer and publisher on basis of competitive bids. Supervise publication and shipping to Conference site.

K. Poster Sessions

1. Notify authors of day, time and location of their presentation, and send them instructions for the format of the posters.
2. Map the poster session area and obtain appropriate numbers of poster boards.
3. Provide poster numbers and necessary supplies.
4. Monitor poster sessions throughout the meeting.

L. Advance Registration

1. Develop systems and procedures for receipt and processing of advance registration forms.
2. Maintain accurate financial records of all advance registration income.
3. Prepare receipts, badges and packets for all registrants. Issue ribbons as appropriate.
4. Respond to requests for forms and information.

M. Meeting Site Arrangements

1. Reconfirm adequate meeting space with hotel.
2. Coordinate program elements and instruct hotel regarding exact floor layout, anticipated attendance, audio-visual equipment, signs and all other requirements.
3. Arrange for room reservations for invited speakers and VIPs.
4. Arrange catering functions - determine per plate costs, plan menu and coordinate all catering activities.
5. Supervise performance of hotel personnel during entire conference.

N. Registration

1. Type badge for each current registrant and insert in pin-on cover.
2. Prepare information packet for each attendee which will contain badge, Proceedings, final program, exhibit guide, city information and any other material deemed appropriate.
3. Hire registrars, cashiers and typists (or work with volunteers) to distribute Conference packets to advance registrants, all exhibitors, and to process on-site registrants.
4. Provide city information and general hospitality service to registrants.
5. Provide message center, Proceedings Center and the service of shipping the Proceedings.

O. On-Site Conference Management

1. Staff registration desks during the entire period of the conference.
2. Supervise the performance of the hotel personnel during the entire meeting and resolve any problems arising during the conferences.
3. Supervise set-up and arrangements of booth set-up for the exhibitors.
4. Serve as a coordination point for Conference personnel. Organize, maintain and administer on-site Conference office.
5. Inspect meeting room set-up daily to verify that it is properly prepared in accordance with specifications.
6. Hire security guards and supervise their activities on site.
7. Work with local tour operators on social programs, if desired.
8. Display up-to-date lists of registrants and their affiliations.

P. Fiscal Responsibility

1. Receive and deposit advance, current registration fees, tutorial fees and exhibit fees in a special bank account.
2. Approve bills according to the budget before forwarding to Treasurer.
3. Prepare complete financial report showing:
 - a. The number of participants registered and amount of registration fees received and outstanding.
 - b. Number of exhibitors and fees received for exhibit booths.
 - c. Detailed account of all other income.

Q. Post Conference Activities

1. Maintain office address on a year-round basis, if desired, for late mail, inquiries, etc.
2. Save records for use for following year.

Compensation

The fee for the services listed in this proposal shall be \$30,000 for the first 900 registrants and \$24 for each registrant above 900. \$1,000 shall be paid on account upon your signing of this agreement; \$9,000 shall be paid September 1992, and the remainder to be paid at the conclusion of the Conference. There will be no hotel room commissions.

Agency

It is understood that the relationship created is one of agent and principal and it is not intended, nor shall it be construed, to be joint venture with respect to the Conference. As your agent, Meeting Management shall be empowered to make such contractual arrangements as are required to provide the services set forth above. You will indemnify your agent and hold it harmless against any and all damages, liabilities or causes of action, including reasonable attorneys' fees, incurred or arising through or proximately resulting from the faithful performance of its duties herein.

Liabilities

All expenses and liabilities incurred in the performance of the services set forth above including, but not limited to, printing, mailings, telephone services, employee wages shall be paid by the Conference. While it is anticipated that the Conference will break even, or generate surplus funds, nothing herein contained shall be construed as a guarantee. Should the expenses exceed the income, the IEEE Neural Network Council will be expected to pay the excess.

Form of Agreement

This agreement constitutes the entire agreement between the parties pertaining to the subject matter contained in it and supersedes all prior or contemporaneous agreements, representations, modifications and understandings of the parties. Any supplements, modifications or amendments of the agreement will be binding only if executed in writing by all of the parties hereto.

Terms approved and agreed to:

Robert J. Marks, II
Organizing Chair

Date

Nomi Feldman

Nomi Feldman
Conference Coordinator

July 6, 1992

Date

Steven N. Marlin
Conference Coordinator

Date

Steven N. Marlin

Steven N. Marlin
Conference Coordinator

July 6, 1992

Date

Letter of Understanding

1. The conference to be held in Nagoya in October 26 - 29, 1992 is named the IJCNN'93-Nagoya.

2. The conference is operated on the initiative and responsibility of the Organizing Committee in Japan. It is cosponsored by the Japanese societies (JNNS (lead), IEICE and SICE), together with the ENNS, IEEE NNC and INNS.

3. The Japanese societies and the IEEE NNC share 1/3 financial responsibility for each. The INNS shares also 1/3 financial responsibility upon the approval of the Governing Board. The ENNS cosponsors the conference with no financial responsibility.

4. The organization is as follows.

The Advisory Chair	:	Fumio Harashima
The Organizing Chair	:	Shun-ichi Amari
The Steering Chair	:	Toshio Fukuda
The Program Chair	:	Kunihiko Fukushima

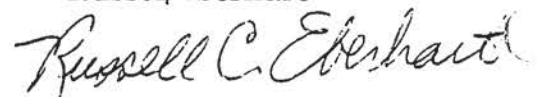
In addition to the above, three Program Cochairs should be invited, each from the ENNS, IEEE NNC, and INNS.

July 3, 1992

The Organizing Chair :
Shun-ichi Amari



The President of the IEEE NNC :
Russell Eberhart





Nagoya University
School of Engineering
Department of Mechanical Engineering

Furo-cho, Chikusa-ku, Nagoya 464-01 Japan
 Telephone +81 52 781 5111

Facsimile +81 52 781 9243

Telex 447 7355

July 6th, 1992

Professor Russell C. Eberhart
 Director
 Biomedical Engineering Center
 P.O. Box 12194
 Research Triangle Park, NC 27709-2194
 USA

Re: Proposal for 1993 IEEE/Nagoya University WWW (tentative)

Dear Prof. Eberhart:

I would like to ask you to add the following item as one of agenda at NNC next AdCom. Proposal for 993 IEEE/Nagoya University WWW. Could you approve that IEEE NNC cosponsor the workshop technically, please?

Thank you for your kind consideration in advance.

Sincerely yours,

Kazuhiro Kosuge /m.d.

Kazuhiro Kosuge
 Associate Professor
 Dept. of Mechano-Informatics and Systems
 Nagoya University
 Furo-cho, Chikusa-ku, Nagoya 464-01
 Japan
 TEL: +81-52-781-5111 ex.6783
 FAX: +81-52-781-9243

KK/md

TENTATIVE

CALL FOR PAPERS

1993 IEEE/NAGOYA UNIVERSITY WWW

ON MULTIPLE/DISTRIBUTED ROBOTIC SYSTEM

- Architecture and Control for Coordination and Cooperation -

July 30 and 31, 1993*

**Nagoya University Symposion
Chikusa-ku, Nagoya, JAPAN**

sponsored by Nagoya University

co-sponsored by
**IEEE Industrial Electronics Society
IEEE Robotics and Automation Society
IEEE Neural Network Council**

There have been a great deal of demands for the Multiple/Distributed Intelligent Robotic System, including multiple robotic systems, intelligent distributed control system and their industrial applications such as Intelligent Manufacturing System, although the area has not been well established as a discipline yet. The goal of the 1993 IEEE/Nagoya University WWW on Multiple/Distributed Robotic System is to give its attendees opportunities to exchange information and ideas on various aspects of the Multiple/Distributed Intelligent Robotic Systems and to stimulate and inspire pioneering works in this area. To keep the quality of these workshops high, only a limited number of people are accepted as participants of the workshops. The papers presented at the workshop will be edited and published from the Oxford University Press.

TOPICS :

Distributed Artificial Intelligence, Genetic Algorithm/Behavior, Distributed Computational Architecture, Multiple Mobile Robotic System, Multiple Robotic Manipulators and Finger Hands, Cellular Robotic System, Swarm Intelligence and Evolutionary System, Hierarchical Architecture Control System, Distributed Learning and Adaptive System

IMPORTANT DATES:

Submission of Abstracts of Papers:
March 31, 1993
Acceptance Notification: May 1, 1993
Final Manuscript: July 1, 1993

Travel expenses for speakers of best papers will be supported by the WWW.

All correspondences and submission of papers should be sent to

Prof. Kazuhiro Kosuge
General Chair
WWW on M.D.R.S.
Dept. of Mechano-Informatics and Systems
Nagoya University
Furo-cho, Chikusa-ku
Nagoya 464-01, JAPAN
TEL: +81-52-781-5111 ex.6783
FAX: +81-52-781-9243

IEEE/Nagoya University WWW:

The IEEE/Nagoya University WWW (World Wise-men Workshops) is a series of workshops sponsored by Nagoya University, Nagoya, Japan. Nagoya city, located two hours away from Tokyo, has many electro-mechanical industries in its surroundings such as Mitsubishi, TOYOTA and their allied companies. Nagoya is a mecca of robotics industries, machine industries and aerospace industries in Japan. The series of workshops will give its attendees opportunities to exchange information on advanced sciences and technologies and to visit industries and research institutes in this area.

* This workshop will be held between 1993 IEEE/RSJ International Conference on Intelligent Robots and Systems (July 27 - 30, in Kawasaki) and International Conference on Advanced Mechatronics (August 2 - 4, in Tokyo)

TENTATIVE

WORKSHOP ORGANIZATION

Honorary Chair: Tetsuo Fujimoto (Dean, School of Engineering
Nagoya University)

General Chair: Kazuhiro Kosuge (Nagoya University)

Steering Committee:

M. Brady	(University of Oxford)
Gerard Beni	(University of California, Riverside)
Rodney Brooks	(Massachusetts Institute of Technology)
Paolo Darlo	(Scuola Superiore, Pisa)
Volker Graefe	(Federal Armed Forces' University Munich)
Susan Hackwood	(University of California, Riverside)
Hideki Hashimoto	(University of Tokyo)
Hisato Kobayashi	(Hosei University)
Sukhan Lee	(Jet Propulsion Laboratory)
V.J. Lumelsky	(University of Wisconsin, Madison)
Ren Luo	(North Carolina State University)
Alex Meystel	(Drexel University)
Gunti Schmidt	(Munich University)
Harry Stephanou	(Rensselaer Polytechnic Institute)
Shinichi Yuta	(Tsukuba University)

Advisory Committee:

Chair:	Toshio Fukuda	(Nagoya University)
	Seizo Fujii	(Nagoya University)
	Fumio Harashima	(University of Tokyo)
	Masami Ito	(Nagoya University)
	Yoshiki Uchikawa	(Nagoya University)



IEEE TECHNICAL ACTIVITIES
 SUMMARY FINANCIAL REPORT FOR IEEE SPONSORED OR COSPONSORED CONFERENCES

See reverse side for instructions on how to complete this form

CONFERENCE
 1. Full title of Conference 1993 IEEE/Nagoya University World Wise-men Workshop on Multiple/Distributed Robotic Systems
 2. Dates of Conference July 30 - 31, 1993
 3. Location of Conference (full name and address) Nagoya University Symposium, Furo-cho, Chikusa-ku, Nagoya 464-01, JAPAN

TYPE OF REPORT / CURRENCY USED
 4. Indicate type of report by checking one box:
 Budget Interim Report Final Report
 5. All income and expense figures below must be in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.
 Local currency: Yen Conversion rate: 124 yen Date of conversion rate: July 7, 1992

INCOME	Budget	Interim Report	Final Report
6. Registration Fees	\$ 24 K	\$	\$
7. Conference Publication Sales	5 K		
8. Exhibits			
9. Social Functions			
10. All Other Conference Receipts	32 K		
11. Total Conference Income			
12. Advance Loans			
13. Total Receipts	\$ 61 K	\$	\$

EXPENSE	Budget	Interim Report	Final Report
14. Promotion	\$ 8 K	\$	\$
15. Conference Publications	8 K		
16. Exhibits			
17. Social Functions	6.8 K		
18. Administration	4 K		
19. All Other Conference Expenses	34.2 K		
20. Total Conference Expense			
21. Loan Repayments			
22. Total Outlays	\$ 61 K	\$	\$

SURPLUS / (LOSS)
 23. Total Receipts (13) \$ 61 K 24. Total Outlays (22) \$ 61 K
 25. Surplus (Loss) - (Item 23 less Item 24) \$ 0

POST CONFERENCE DISTRIBUTION Surplus (Loss) in Item 25 to be distributed as follows:

Cosponsor Entity	% Share	\$ Distributed
a. _____	_____	_____
b. _____	_____	_____
c. _____	_____	_____
d. _____	_____	_____
	Surplus (Loss) \$	_____

CONFERENCE FINANCIAL INSTITUTION
 Name of Bank _____
 Address _____
 Conference Account Title _____ Account No. _____
 Have you requested IEEE Conference Insurance? Yes No

SUBMITTED BY:
 Name Kazuhiro Kosuge Tel. No. (+81) 52-781-5111 ex6783
 Address Dept. of Mechano-Informatics and Systems, Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464-01, JAPAN
 Conference Position General Chair
 SIGNATURE Kazuhiro Kosuge Date 7/4/92



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6900 (O)
Tel: (206) 776-8005 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

November 13, 1992

Dr. James C. Bezdek, Chair
IEEE NNC Meetings Committee
The University of West Florida
Computer Science
11000 University Parkway
Pensacola, Florida 32514-5750

Subject: NNC Inverse Forum

Discussion: There has been no activity concerning this meeting.

Motion: NNC sponsorship of this forum be withdrawn.

Sincerely,

Robert J. Marks II, Past President
IEEE Neural Networks Council

cc: Dr. Russ Eberhart, NNC President



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-8990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

November 13, 1992

Dr. Alexander I. Galushkin, Director
Russian Academy of Sciences
Scientific Centre of Neurocomputers
125252
Moscow, Russia 668
FAX 7/095 255 09 21
igor@prima.icie.msk.su

Dear Dr. Galushkin,

I enjoyed meeting you at the RNNS/IEEE Symposium. I applaud the research and productivity of your institute.

I have received your proposal to host the IJCNN '94 in Moscow. I am forwarding to the Chair of the IEEE Neural Networks Council Meetings Committee, Dr. James Bezdek. For your reference, his address is

James C. Bezdek
Nystul Professor
The University of West Florida
Computer Science
11000 University Parkway
Pensacola, Florida 32514-5750
(904) 474 2784
FAX 904 474 2096
jbezdek@uwf.bitnet

Your proposal will be considered by the meetings committee. Dr. Bezdek will inform you of developments.

Best personal regards,

Robert J. Marks II, Past President
IEEE Neural Networks Council

cc: Dr. James Bezdek, NNC Meetings Committee Chair
Dr. Russ Eberhart, NNC President
Witali Dunin-Barkowski, RNNS Chair

102

2

**International Joint Conference on Neural Networks
(IJCNN'94 Moskow)**

MOSCOW, Russia, May, 1994

The International Joint Conference on Neural Networks will be held in Moscow, Russia, May, 1994.

The Conference will be managed by Scientific Center of Neurocomputers of Russian Academy of Science.

The aim of the Conference is to stimulate international activities of scientists to encourage free exchange of information and views on today's standing of neural computers and neural networks.

Topics of interest include but are not limited to:

1. Theory of neural networks

- Architecture of Neural Networks
- Supervised Learning
- Nonsupervised Learning
- Associative Memory
- Neural Network dynamic

2. Neuromathematics

- pattern recognition
- linear algebra
- function approximation
- optimization
- vector quantization
- finite rings
- ordinary differential equations
- particular derivative differential equations

3. Neural Computers

- neural development systems for IBM PC and Workstations
- neural computers based on super computers
- neural computers based on standart elements base
- digital neural chips and neural computers
- analog neural chips and neural computers
- optical neural computers
- molecular neural computers

103

3

4. System software of neural computers

- operating systems
- graphic realization of neural networks
- neural network languages

5. Applications of neural computers

- dynamic system control
- robot control
- chemical reactors control
- signal processing
 - seismic signals
 - speech signals
 - radar signals
 - filtering
 - coding and decoding
 - DAC and ADC
- image processing
 - robot vision
 - "hand-eye" systems
 - medicine images
 - satellite images
- neural knowledge systems
- prospecting of oil and gas
- high energy physics problems
- communication switching
- financial applications

Participants of the IJCNN'94 will be able to attend the combined exhibit program and to become acquainted with the latest developments in product based on neural networks. It will be possible to exhibit their books and to display catalogues, leaflets and any promotional materials (and video tapes) on the problems of:

- neural development systems for IBM PC and Workstations
- neural computers based on super computers
- transputer systems (universal and problem - oriented)
- neural computers based on standart microprocessor element base
- neural computers based on analog and digital neural chip
- optical neural computers

4

- molecular neural computers

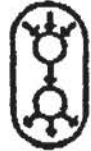
Working languages of a conference are:

Russian and English.

We encourage those interested in participating in this conference to write to this address: 125262, Moscow, Russia, a/я 668. Galushkin A.I.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-8900 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

November 13, 1992

Dr. James C. Bezdek, Chair
IEEE NNC Meetings Committee
The University of West Florida
Computer Science
11000 University Parkway
Pensacola, Florida 32514-5750

Dear Dr. Bezdek,

According to IEEE, the following conferences have not yet been closed. This, even though audits have been performed and received by IEEE.

Sincerely,

Robert J. Marks II, Past President
IEEE Neural Networks Council

cc: Dr. Russ Eberhart, NNC President

CONFERENCES WITH PAST DUE FINAL FINANCIAL REPORTS

FOR THE PERIOD OF 01/01/88 - 04/30/92
 Report Date 11/12/92

YE	CONF #	CONFERENCE TITLE	SPON	FIN %	INCOME	EXPENSES	NET	REMARKS
1991								
/07-04/12	2712	1991 IEEE International Conference on Robotics and Automation	RA	100	205,675	202,600	3,075	
/23-06/28	2525	1991 IEEE International Symposium on Information Theory	IT	100	116,525	116,525		
/26-06/28	2583	1991 American Control Conference - ACC '91	CS	55	214,450	174,350	40,100	
/08-07/14	2617	1991 International Joint Conference on Neural Networks (IJCNN-91-Seattle, WA)	NN	50	449,000	371,645	77,355	
/13-10/16	2921	1991 IEEE International Conference on Systems, Man and Cybernetics	SMC	100	122,325	121,100	1,225	
/31-11/03	2357	1991 13th Annual International Conference of the IEEE Engineering in Medicine and Biology Society	EMB	100	370,950	321,550	49,400	
/18-11/21	2641	1991 International Joint Conference on Neural Networks (IJCNN-91-Singapore)	NN	33	339,375	288,250	51,125	
/02-12/05	3175	1991 IEEE Neural Information Processing Systems - Natural & Synthetic	IT	100				

11/18/92

11:40

UM ELEC. ENG. DEPT.

014

107

CONFERENCES WITH PAST DUE FINAL FINANCIAL REPORTS

FOR THE PERIOD OF 01/01/88 - 04/30/92
 Report Date 11/12/92

CE	CONF #	CONFERENCE TITLE	SPON	FIN %	INCOME	EXPENSES	NET	REMARKS
/05-12/07	3228	1991 IEEE Workshop on Neural Information Processing Systems Natural and Synthetic	IT	100				
/11-12/13	2522	1991 30th IEEE Conference on Decision and Control	CS	100	149,900	125,880	24,020	
1992								
/08-03/12	3003	1992 IEEE 1st International Fuzzy Systems Conference	IN	100	285,750	252,000	33,750	
/12-03/13	3099	1992 18th Annual Northeast Bioengineering Conference	EMB	25	28,125	21,900	6,225	
/16-03/19	2941	1992 IEEE International Workshop on Advanced Communications and Applications for High Speed Networks	IE	50	32,150	31,250	900	
/17-03/19	2948	1992 IEEE Symposium on Computer-Aided Control Systems Design (CACSD)	CS	100	18,000	12,900	5,100	

11/18/92 11:41

UM ELEC. ENG. DEPT.

015

101

From: svk@hotstone.att.com
Date: Mon, 16 Nov 92 10:35 EST
To: jbezdek@uwf.bitnet, marks@u.washington.edu, wes@relito.medeng.wfu.edu
Subject: Proposed adgenda

Attached find proposed adgenda for our 8:30 meeting on 12/5/92 at Arizona Biltmore Hotel.
Please, let me know by Friday 11/6/92 if you have any items to be included (later than that I'll be most of the time on trips).

See you there,

Stamatis

NNC PUBLICATIONS COMMITTEE

** TENTATIVE ADGENDA **

Scottsdale, AZ

12/5-6/92

Status of Published Books

Proposed/in Preparation Books

Partnerships with other Publishers

Book Reviewers

- a. NN, b. FUZ, c. GA, d. EP

NN Transactions

- a. Special Issues
- b. Book reviews

FUZZ Transactions

Newsletter

IEEE Booth Staffing at NNC Conferences

recommendation: Conf Organizers delegate local chapters for staffing

prepared by SVK

STANDARDS COMMITTEESummary of Activities in 1992**Active Working Groups**

Glossary	- Mary Lou Padgett
Performance Evaluation	- Robert. Shelton
Hardware Interfaces	- Steve Diess
Software Interfaces	- Harold Brown

Working Groups in Process of Formation

Fuzzy Systems	
Virtual Reality	- Richard Blade

Formal Meetings of Working Groups and Coordinating Committee

Auburn, AL	2/9 - 2/12
San Diego	3/9
Baltimore	6/6 - 6/10
Reno	7/27 - 7/29
Houston	11/5 - 11/7
Denver	11/27

Other Meetings Attended by Chair and Vice Chair

IEEE Standards Board - New York	3/15 - 3/18, 6/15 - 6/19
	9/14 - 9/17, 12/1 - 12/3

IEEE Metric Policy Committee - Washington	12/1
---	------

IJCNN/ Beijing Conference - Standards Panel and Tutorial	
--	--

Active Mailing List: 485

Mailings to List :	1/92, 5/92, 6/92, 9/92
--------------------	------------------------

110

STANDARDS COMMITTEE1993 Budget**Travel**

IEEE Standards Board, 4 meetings	- W. J. Karplus	\$ 4000
Metric Policy Committee, Washington, 4 meetings		\$ 4000
ICNN/Fuzzy, San Francisco	- M.L. Padgett, R. Shelton	\$ 1500
VRAIS, Seattle	- M.L. Padgett, W. J. Karplus	\$ 1500
SIMTEC, San Francisco	- W. J. Karplus, R. Shelton	\$ 1000

Mallings and Incidental Expenses \$ 2000

TOTAL \$ 14,000



Conference Records Electronic Publications (CREP)

Reply to:
Prof. Mani Soma
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195
Phone: 206-685-3810, FAX: 206-543-3842
e-mail: soma@ee.washington.edu

Q&A : CD ROM PUBLISHING PROCEDURE (as of November 1992)

(for use by Conference Publication Committees)

The explosive advances in CD ROM publications have made our committee work almost obsolete. Within the past 3 months, several vendors have offered CD ROM publications for conferences that are much better than the case study we did with IJCNN 1992. Our exhaustive survey of the market in the past 6 months has turned up 3 vendors that can provide CD ROM for your conferences:

Micro-Retrieval Corporation
One Kendall Square
Bldg. 300
Cambridge, MA 02139

Phone: 617-577-1574, FAX: 617-577-9517

Note: This is the vendor that produced the IJCNN 1992 CD ROM. They have CD ROM for DOS on PCs, and plan to release in early 1993 CD ROM that can run on both DOS and Windows.

Dataware Technologies, Inc.
222 Third Street
Suite 3300
Cambridge, MA 02142-1188

Phone: 617-621-0820, FAX: 617-621-0307

Note: This is the vendor that produced the EMBS 1992 CD ROM. They have CD ROM for DOS on PCs, and plan to release in early 1993 CD ROM that can run on both PCs and Macs.

Young Minds, Inc.
308 West State St.
Suite 2B
Redlands, CA 92373

Phone: 714-335-1350, FAX: 714-798-0488

Note: This is the vendor that has worked with the Computer Society to produce CD ROMs for their magazines. They are the only vendor so far that has CD ROM running on 3 platforms: PCs, Macs and UNIX workstations. Clearly you should expect a higher cost, unless you choose to produce CD ROMs for only 1 platform.

Since the negotiation for CD ROM production now becomes more involved due to the various options offered by the vendors at different cost levels, it is no longer efficient to use CREP as an intermediary. Your conference publication committee can get a better cost figure and a quicker production schedule by negotiating with the vendor directly. In the past, we used the possibility of a "site" license with the IEEE as a negotiating tool, but with so many societies going their own ways and with the cost ever decreasing, it is more cumbersome trying to centralize the CD ROM production effort through CREP. Also, since we do not have the authority to sign contracts on behalf of your conference or of the IEEE, it would in fact take more time for us to negotiate a deal by going between you and the vendor. We will still do market surveys to turn up more vendors and will be glad to advise on specific problems. Here are some points to help your conference publication committee:

1. What information do I need to supply to the vendor?

Each vendor has specific requirements, but you should plan on sending them this information:

(a) The loose pages of all the papers in the proceedings after they have been paginated and reduced to 8.5"x11" size. Ask the printer of the proceedings to send the originals of these pages (the copied pages have poorer quality and do not look very good when they are scanned in for CD ROM). If you must send copies due to problems in coordinating with the printer, the CD ROMs can still be manufactured but please be aware that the quality is not as high.

(b) For each paper, ask the author(s) to submit the title, the name(s) and affiliation(s) of author(s), and the paper abstract in ASCII form (i.e. no formatting whatsoever) on a 3.5" disk. Include this instruction in your paper acceptance letter or Author's Kit. This information (to be used for searching on the CD ROM) should be submitted at the same time as the camera-ready paper. See item (d) below about where to send the disks.

(c) For the information in item (b), you might want to use electronic mail submission ONLY if you have cheap labor for the massive editing task to remove mail header and extraneous text. Supply an address on an internationally accessible network and make sure that you have enough disk space to store files: some authors send the entire papers, which take up large disk space.

(d) Whether you get the ASCII files on disk or via e-mail, ask the vendor for the specific format they want you to supply and edit the files to meet the vendor's requirements. Some vendors might also supply this editing and indexing task as part of the package deal to produce the CD ROM. If the vendor agrees to perform this task, it would be easier on your committee to have the authors send the disks directly to the vendor. Otherwise, your committee should designate an address to receive the disks and work on the editing as soon as they trickle in. Do not underestimate this editing job!!!

2. What happens if a paper has graphics and equations?

Since the vendor scans in the pages of the proceedings, the graphics and equations are automatically incorporated into the CD ROM. The ASCII file (mentioned above) should not contain any graphics and equations since it will be used only for searching.

3. What will I get back?

You can arrange with the vendor to have the CD ROMs shipped directly to you or your conference city. After the mastering of the first CD ROM, your conference committee should be prepared to

review this copy carefully to make sure that it meets your requirements before telling the vendor to begin making a production run.

4. What computer system(s) can I use the CD ROM on?

The 3 vendors above support a variety of CD ROM access programs on PCs (DOS, Windows or both), Macs, UNIX, or a combination of these platforms. Negotiate with the vendor based on how many platforms you want the same CD ROM to run on. The rule of course is that the more platforms you want, the higher the cost, even though the incremental cost for this flexibility actually is not that high.

5. How much does it cost? Who is the manufacturer?

The cost for the total production run, assuming only the PC platform, is approximately \$20K for 2,000 CD ROMs delivered. Each CD ROM can store up to 3,500 pages. The reproduction cost, if your conference wants to order more, is only about \$4 to \$5 per additional disk. Prices are decreasing very fast due to competition, so call all the 3 vendors and negotiate before you sign the contract. The negotiation should not take more than a few days since the price differences are usually small for the same services.

6. How much time does it take to produce the CD ROM?

The vendor will need 3 to 4 weeks to scan and an additional 3 to 4 weeks to master, produce, package, and ship the CD ROMs. The total time is 6 to 8 weeks from the time all information is supplied to the vendor. Accelerated schedule is possible but you will have to pay the vendor additional charges.

7. What are the possible problems I need to look out for as the Publication Committee Chair?

(a) Work with the printer of the paper proceedings to make sure that the printer will accommodate the CD ROM production schedule. Ask the printer to supply the originals of the loose pages as early as possible (at least 6 to 8 weeks before conference dates). Some printers are cooperative, others are not.

(b) If some authors do not send in the title, name(s), and abstract in ASCII form, you have to plan to type it in by hand. Plan for the additional time and cost due to this problem.

8. I have more questions. Who do I contact?

Please contact Mani Soma whose address is listed in the letterhead. Electronic mail is best since you will get answers much faster. For specific information on vendors, please send e-mail to cdrom@isaac.engr.washington.edu .

This document is dated November 6, 1992.

The information provided herein is subject to change since CD ROM publication technologies are evolving at a very fast rate. Contact us for more up-to-date information.

Date: Mon, 16 Nov 92 22:44:06 EST
From: Donald Brown <deb@tweety.ipc.virginia.edu>
To: rce@rti.rti.org (Russ Eberhart)
Subject: pubs report

Below is the draft report from the ad hoc committee on publications expansion. It will be in final form for the ADCOM meeting. Please include this in the agenda. Also, please give me any comments you have on its content. Thanks!

See you in Az.,

Don Brown

Draft Report of the Ad Hoc Committee on Publications Expansion

Committee Formation and Charge:

At its June meeting, the NNC ADCOM formed the Ad Hoc Committee on Publications Expansion to investigate ways to increase the number of published articles in neural networks and computational intelligence. The ADCOM expressed particular concern for increasing the number of applications articles in the general area of computational intelligence (which includes neural networks, fuzzy sets, and genetic algorithms/evolutionary programming).

The committee members are:

D.E. Brown (Chair)
R.C. Eberhart
M.A. ElSharkawi
T. Fukuda
S.V. Karlopoulos
R.J. Marks
E. Sanchez-Simencio
P.K. Simpson
W.E. Snyder
J.M. Zurada

The remainder of this report contains the objectives of the study, background information on the demand for applications articles, alternatives to accomplish the stated objectives, analysis of the alternatives, and committee recommendations.

Objectives:

Given the charge from the NNC ADCOM the committee formulated the following objectives to guide its work:

- 1) Increase the number of high quality published articles in computational intelligence with an emphasis on applications;
- 2) Expand the visibility and activities of the IEEE NNC; and
- 3) Reduce the length of time to publication.

Background on the Problem:

This section explores three aspects to the perceived problem: the demand for applications articles, the desire for more timely reviews, and capabilities of current publications to address these issues.

The IEEE has noted a clear increase in the demand for applications articles. The IEEE Technical Activities Board (TAB) conducted a study three years ago concerning IEEE Publications, and the results showed that the IEEE membership wanted more applications articles in the IEEE journals. The panel of IEEE Editors reported at their August 24, 1992 meeting that "IEEE Members have asked for more applications-oriented papers." Additionally, many of the new publications that have appeared over the last two years are applications oriented. Finally, there has been growth in applications oriented conferences, such as, "Artificial Neural Networks in Engineering." Eric Herz, IEEE's executive director, cited SPIE as an organization that was successfully targeting this demand. SPIE has, for instance, conducted a number of conferences on applications in neural networks and artificial intelligence.

One difficulty in assessing the need for more applications oriented publications is defining applications. The panel of IEEE Editors considered this issue this summer and decided it would be left to each society to formulate this definition. Within NNC applications appear to involve the use of existing neural network paradigms rather than the creation of new paradigms. There are problems with this definition and as noted below in the recommendations section, the NNC should provide clear guidance on what constitutes an application within this community.

The second aspect of the problem concerns the time from submission of a manuscript to publication. The growth in letters journals (noted in the IEEE Panel of Editors minutes, August 24, 1992) suggests a dissatisfaction with the length of time to publication in existing outlets. In the 1992 Survey of Transactions/Journals Editors the average length of time to first review was about 15 weeks, and frankly the experience of the members of this committee suggests that the figures in this report were biased downwards. The length of time from submission to publication is approaching 2 years in many of the major Transactions (it is about 16 months in the Transactions on Neural Networks).

The IEEE Transactions have attempted to react to both of these problems. Over the last year there has been an increased number of applications articles appearing in transactions. According to the 1992 Survey of Transactions Editors, applications oriented manuscripts constitute 15-30% of the submissions in most journals and reach as high as 90% in some. Significantly the ones with high levels of applications articles are Industrial Applications and Industrial Electronics. We note that Industrial Applications plans a special issue in April 1993 on "Applications of Intelligent Systems to Industrial Electronics." At least one IEEE society - Systems, Man, and Cybernetics - is considering the introduction of an applications journal.

The transactions have also attempted to address the time to publication. But according to the 1992 Survey of Transactions/Journals Editors, almost all IEEE Transactions publications have not improved the time required to obtain reviews.

In conclusion, the problems of meeting membership demands through more applications oriented papers and improved review times remain. The next section provides possible solutions to these problems and to the objectives stated in section 2.

Alternatives:

While there are a number of potential alternatives, the following capture the most reasonable subset.

Alternative 1. New NNC publication (e.g. Transactions on Applications in Computational Intelligence);

Alternative 2. Expand the current NNC Transactions to include more articles, particularly those in applications;

Alternative 3. Aperiodic publications (e.g. workshops followed by books of collected papers); and

Alternative 4. A new journal (presumably focused on applications) with less status than the Transactions.

The second alternative includes a number of variations. For example, the Transactions could include on a periodic (e.g. semiannual) basis special issues on applications. The Transactions could also contain a special section devoted entirely to applications. Finally, the Transactions could just increase its Correspondence Section, and strongly encourage the submission of applications papers to this section.

Analysis:

In this section, each alternative is briefly analyzed based on its expected contribution to the objectives. We also provide other possible considerations for decision making.

Alternative 1

Objective 1: This alternative will allow NNC to roughly double the number of papers published each year. The emphasis will clearly be on applications. There is a risk of a reduction in quality, because this option would most rapidly increase the number of papers published. However, a rigorous (although not necessarily lengthy) review process could control for this.

Objective 2: This option has the greatest potential to expand the visibility of the NNC.

Objective 3: To accomplish this objective the NNC would have to mandate a rapid review process for the new journal or create it as a letters journal.

Other considerations: This is a time and labor intensive alternative. While it scores highly on all objectives, it will require a firm

commitment on the part of the NNC to make it successful.

Alternative 2

Objective 1: This alternative would allow NNC to increase the number of papers by no more than 10% this year and possibly 20% the following year. There is resistance among the associate editors of the Transactions on Neural Networks to an applications section in general and among some of them to applications papers, specifically. Hence, there would likely be little increase in the number of applications papers accepted and published. Periodic special issues would increase the number of applications only marginally.

Objective 2: There is little increase in the visibility of the NNC.

Objective 3: There would be little change to the current review times, even with an attempt to aggressively force this, as the experience of other Transactions has shown.

Other considerations: This is a fast alternative, that could be accomplished almost immediately upon direction by the NNC ADCOM.

Alternative 3

Objective 1: The actual number of papers could be about 20-40% more than the current Transactions, depending on the number and size of each workshop. There is the potential for highly variable quality due to changes in workshop organizers.

Objective 2: There would be some increase in the visibility of the NNC but less than with a new Transactions.

Objective 3: This would depend on the workshop organizers. Reviews could be very quick although a major problem with workshops is the lack of an established review organization comparable to the associate editors in a journal.

Other considerations: This would be a fast alternative to implement if good volunteers are available. However, it would tend to compete with conferences because travel money has become more restricted over the last three years. It would also require a long term organizational structure to ensure continuity between workshops.

Alternative 4:

Objective 1: The number of published papers would more than double but quality, by definition, would be lower.

Objective 2: Visibility might be hurt by a perception of quality problems.

Objective 3: Could be very quick.

Other considerations: A time and resource consuming option almost of the same magnitude as option 1.

Recommendations:

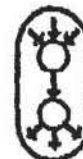
The committee recommends Alternative 1 if the NNC ADCOM is prepared to devote the necessary resources and commitment. Alternative 1 is preferred to Alternative 2 because it can increase the number of applications papers more dramatically and provides better visibility for the NNC. However, Alternative 2 represents the next best choice, and should be considered as a short term option while Alternative 1 is being implemented. Alternative 3 is a good option but it presents organizational and potential quality problems. It also does not greatly increase the visibility of the NNC. Alternative 4 should be rejected because of the obvious potential problems with quality and the potential impact this might have on the NNC.

All these options require a good definition of applications. We recommend this be accomplished as a prelude to the adoption of any of these alternatives.



Robert J. Marks II
Editor-in-Chief

TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o. 1191 190th Street S.W., Suite N
Lynnwood, WA 98095-7198 USA

November 13, 1992

Russell Eberhart, President
IEEE Neural Networks Council
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Dear Russ,

I request that the Council approve the following for Associate Editors of the *IEEE Transactions on Neural Networks*.

Professor Mohammed Ismail, Associate Editor
Ohio State University
Columbus, OH

Stamatis V. Kartalopoulos
AT&T Bell Laboratories, Rm 3C-309
Holmdel, NJ

Professor Sun-Yuan Kung
Princeton University
Princeton, NJ

Sincerely,

Robert J. Marks II, Editor
IEEE Transactions on Neural Networks



IEEE

SOCIETY ON SOCIAL IMPLICATIONS OF TECHNOLOGY

Ronald R. Kline
President

PLEASE REPLY TO:
School of Electrical Engineering
Phillips Hall
Cornell University
Ithaca, New York 14850 USA
Tel. (607) 255-4307
Fax (607) 254-4565
E-mail: rkline@ee.cornell.edu

23 September 1992

Dr. Russell Eberhart
President, Neural Networks Council
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Dear Russ:

I am happy to report that the SSIT AdCom voted to join the Neural Networks Council at its last meeting (September 12, 1992).

On behalf of SSIT, then, I would like to formally petition the Council for membership. The AdCom strongly endorsed the proposed membership and thinks this cooperation will be an excellent method to address the important issue of the social implications of neural nets and similar systems.

On behalf of the AdCom, I would also like to appoint the following SIT members as representatives from SSIT to NNC: Don Wunsch and Rick Alan, both of whom are very interested (and qualified) to carry out this task. Unfortunately, SSIT's budget does not now have funds to pay them to attend NNC AdCom meetings.

Please bring up our proposed membership at your early convenience and let me know the result.

I look forward to seeing you at the next TAB meeting.

Regards,

Ronald Kline

cc: Rick Alan
Don Wunsch

July 22, 1992



a member society
of the IEEE

Russell C. Eberhart
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709-2194

1730 Massachusetts Avenue, N.W.
Washington, D.C. 20036-1903
Phone: (202) 371-0101
FAX: (202) 728-9614

**Re: PETITION OF THE COMPUTER SOCIETY TO JOIN
THE NEURAL NETWORKS COUNCIL**

T. MICHAEL ELLIOTT
Executive Director

Dear Dr. Eberhart:

Supplementing my letters of May 28, 1992 and June 5, 1992 (copies enclosed), which indicated the IEEE Computer Society's interest in and our governing board's approval of the society becoming a member of the IEEE Neural Networks Council, I am enclosing additional information on recent publications of the Computer Society relating to neural networks and the addresses of our two representatives to the Neural Networks Council.

In addition, by my signature below I certify that the IEEE Computer Society agrees as a member society of the IEEE Neural Networks Council to abide by the constitution and bylaws of the Neural Networks Council.

Please let me know if you require any additional information. Thank you for your help.

Sincerely,

Bruce D. Shriver

BDS/skp

cc: T. Michael Elliott

Prof. Benjamin W. Wah
University of Illinois
Coordinated Science Lab
1101 W. Springfield Avenue
Urbana, IL 61801
(O) 217-333-3517
(H) 217-398-1701
(FAX) 217-244-7175

Dr. Oscar N. Garcia
George Washington University
801 22nd Street, N.W.
6th Floor T-633
Washington, D.C. 20052
(O) 202-994-6569
(H) 301-229-0166
(FAX) 202-994-0227

Publications Office

10662 Los Vaqueros Circle
P.O. Box 3014
Los Alamitos, CA 90720-1264
Phone: (714) 821-8380
FAX: (714) 821-4010

European Office

13, Avenue de l'Aquilon
1200-Brussels, Belgium
Phone: 32-2-770-2198
FAX: 32-2-770-8505

Asian Office

Ooshima Building
2-19-1 Minami Aoyama
Minato-ku
Tokyo 107, Japan
Phone: 81-3-3408-3118
FAX: 81-3-3408-3553

1951-1991



RECENT ACTIVITIES OF THE IEEE COMPUTER SOCIETY IN THE AREA OF NEURAL NETWORKS

Periodicals

1. *Expert Magazine*. The Computer Society's optional publication, *IEEE Expert*, periodically publishes papers in the area of neural networks.

Books, Tutorials, Videotapes

1. Artificial Neural Networks -- Concept Learning (ed. Joachim Diederich)
2. Artificial Neural Networks -- Electronic Implementation (ed. Nelson Morgan)
3. Artificial Neural Networks -- Theoretical Concepts (ed. V. Vemuri)
4. Artificial Neural Systems (videotape) (Bruce Shriver)
5. Advances in Neural Network Technology (videotape/book set) (V. Vemuri)
6. Artificial Neural Networks: Concepts and Theory (Benjamin Wah)

Conferences in AI/Computer Vision

1987

Conference on Artificial Intelligence Applications
Expert Systems in Government
International Conference on Computer Vision

1988

IEEE Computer Society Conference on Artificial Intelligence Applications
IEEE Conference on Computer Vision and Pattern Recognition
IEEE 1988 Workshop on Machine Vision
International Conference on Computer Vision
Applications of Artificial Intelligence VI (C)
2nd International Conference on Expert Database Systems (C)
International Neural Networks Society 1988 Annual Meeting (C)

1989

IEEE Computer Society Conference on Artificial Intelligence Applications
IEEE Workshop on Motion
Artificial Intelligence Systems in Government (formerly Expert Systems in Government)
IEEE Computer Society Conference on Computer Vision and Pattern Recognition
IEEE Workshop on AI for Computer Vision
IEEE Workshop on Tools for Artificial Intelligence
Workshop on Interpretation of 3D Scenes
2nd International Conference on Industrial and Engineering Applications of Artificial
Intelligence and Expert Systems (C)
Intelligent Robotics Systems: Design and Applications (C)

1990

Conference on Artificial Intelligence Applications
Artificial Intelligence Systems in Government
10th International Conference on Pattern Recognition
Managing Expert Systems Programs and Projects
IEEE Workshop on Tools for Artificial Intelligence
International Conference on Computer Vision
AI, Simulation and Planning in High Autonomy Systems (C)
International Symposium on Fuzzy Approach to Reasoning and Decision Making (C)
5th Rocky Mountain Conference on Artificial Intelligence (C)
2nd International Conference on Economics and Artificial Intelligence (C)
3rd International Conference on Industrial and Engineering Applications of AI and Expert
Systems (C)
3rd UNB Artificial Intelligence Workshop (C)
Pacific Rim International Conference on Artificial Intelligence (C)
1st International Symposium on Uncertainty and Analysis: Fuzzy Reasoning, Probabilistic
Methods and Risk Management (C)

1991

Conference on Artificial Intelligence Applications
Developing and Managing Expert Systems Programs and Projects (formerly Artificial
Intelligence Systems in Government)
IEEE Computer Society Conference on Computer Vision and Pattern Recognition
IEEE Workshop on Visual Motion
IEEE Conference on Tools for Artificial Intelligence (formerly IEEE Workshop on Tools
for Artificial Intelligence)
4th UNB Artificial Intelligence Workshop (C)
First International Conference on Artificial Intelligence Applications on Wall Street (C)

1992

IEEE Computer Society Conference on Artificial Intelligence Applications
IEEE Computer Society Conference on Computer Vision and Pattern Recognition
IEEE Conference on Tools with Artificial Intelligence
IEEE Workshop on Applications of Computer Vision
5th International Conference on Industrial and Engineering Applications of AI and Expert
Systems (C)
XVII ISPRS Congress Workshop "Calibration and Orientation of Cameras in Computer
Vision" (C)
2nd International Conference on Robotics Automation and Computer Vision (C)
2nd Pacific Rim International Conference on Artificial Intelligence (C)

1993

IEEE Computer Society Conference on Artificial Intelligence Applications
Developing & Managing Intelligent System Projects (formerly Developing and Managing
Expert Systems Programs and Projects)
IEEE Conference on Tools with Artificial Intelligence
International Conference on Intelligent and Cooperative Information Systems (C)
6th International Conference on Industrial and Engineering Applications of AI and Expert
Systems (C)
International Joint Conference on Neural Networks (request for cooperation received, not
yet approved)

Note: we approved a budget for the IEEE Artificial Neural Networks Conference to be
held in April 1989 but the meeting was canceled.

SKP::C:\WINWORD2\NNLTR.DOC

125

FILE COPY



May 28, 1992

DR. BRUCE D. SHRIVER
1992 PRESIDENT

17 Bethea Drive
Ossining, NY 10562-1620
(914) 762-3251
FAX: (914) 941-9181
COMPMAIL: b.shriver
internet: b.shriver@compmail.com

Dr. Russell C. Eberhart
Research Triangle Institute
P. O. Box 12194
Research Triangle Park, NC 27709

Dear Russ:

On behalf of the IEEE Computer Society Board of Governors, this letter will confirm our conversation with respect to the Computer Society's desire to become an IEEE Neural Networks Council Constituent Society. The society's Board of Governors will vote on a resolution to effect this membership at its meeting in New Orleans on June 5. We anticipate approval at which time I will appoint two society representatives to serve on the Advisory Committee.

We very much appreciate your assistance in this matter. I hope that both society representatives can attend the International Joint Conference on Neural Networks in Baltimore.

Sincerely,

Bruce D. Shriver/lsh

Bruce D. Shriver

BDS/lsh

cc: T. Michael Elliott

Headquarters Office

1730 Massachusetts Avenue, N.W.
Washington, D.C. 20036-1903
Phone: (202) 371-0101
FAX: (202) 728-9614

Publications Office

10662 Los Vaqueros Circle
PO Box 3014
Los Alamitos, CA 90720-1264
Phone: (714) 821-8380
FAX: (714) 821-4010

European Office

13 Avenue de l'Aquilon
1200 Brussels Belgium
Phone: 32-2-770-2198
FAX: 32-2-770-8505

Asia/Pacific Office

Ooshima Building
2-9-1 Minato City
Minato-ku
Tokyo 107, Japan
Phone: 81-3-3408-3118
FAX: 81-3-3408-3553

126

FILE COPY



June 5, 1992

DR. BRUCE D. SHRIVER
1992 PRESIDENT

Dr. Russell C. Eberhart
Research Triangle Institute
P. O. Box 12194
Research Triangle Park, NC 27709

17 Bethea Drive
Ossining, NY 10562-1620
(914) 762-3251
FAX: (914) 941-9181
COMPMAIL: b.shriver
internet: b.shriver@compmail.com

Dear Russ:

This is to inform you that the IEEE Computer Society Board of Governors approved the following motion at its June 5, 1992 meeting in New Orleans:

"RESOLVED, that the Board of Governors of the IEEE Computer Society approves the society joining the IEEE Neural Networks Council, and authorizes the president to execute all necessary documents and agreements to make the society a full member of the Council."

I hereby appoint the following representatives to the IEEE Neural Networks Council Advisory Committee with terms to commence as soon as our membership in the Council is ratified: Benjamin W. Wah for a term ending on December 31, 1993 and Oscar N. Garcia for a term ending on December 31, 1994.

Russ, thank you for guidance in this process. We look forward to a mutually rewarding association.

Sincerely,

Bruce D. Shriver/lb

Bruce D. Shriver

BDS/lb

cc: Benjamin W. Wah
Oscar N. Garcia
T. Michael Elliott

Headquarters Office

1730 Massachusetts Avenue, N.W.
Washington, D.C. 20036-1903
Phone: (202) 371-0101
FAX: (202) 728-9614

Publications Office

10662 Los Vaqueros Circle
P.O. Box 3014
Los Alamitos, CA 90720-1264
Phone: (714) 821-8380
FAX: (714) 821-4010

European Office

13 Avenue de l'Action
1200-Brussels, Belgium
Phone: 32-2-770-2198
FAX: 32-2-770-8505

Asia/Pacific Office

Ooshima Building
2-19-1 Minami Aoyama
Minato-ku
Tokyo 107, Japan
Phone: 81-3-3408-3118
FAX: 81-3-3408-3553



Date: Tue, 20 Oct 92 10:26:54 PDT
From: Dr Walter Karplus <karplus@cs.ucla.edu>
To: Russell Eberhart <rce@rti.rti.org>
Subject: Re: Standards for Fuzzy Controls

At the next meeting of our Adcom, I would like to make the following motion, which is needed to conform with IEEE formalities:

The Neural Networks Council delegates to the Neural Networks Council Standards Committee the authority to act on its behalf in all matters relating to IEEE Standards. This authorization includes, but is not limited to, the submission of Project Authorization Requests and drafts of standards as well as the selection and nomination of balloting groups. The president is instructed to inform the IEEE Standards Board of this action.

***Submitted by Walter Karplus, Chairman
IEEE NNC Standards Committee



CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

RM 311 @ 7AM
FUZZ/ICNN

Proposed Agenda
IEEE NNC AdCom Meeting
Baltimore, Maryland
June 6-7, 1992

1. Introduction of attendees and presentation of proxies...1
2. Approval of Agenda
3. Approval of Minutes of March 1992 Meeting...8
4. Officer Reports
 - President...68
 - Vice President
 - Treasurer...72
 - Secretary
5. Editors' Reports
 - Transactions on Neural Networks
 - Transactions on Fuzzy Systems
 - CoNNections
6. Standing and Ad Hoc Committees
 - Awards Committee
 - Education Committee
 - Fellows Committee
 - Meetings Committee...84
 - 92 // Singapore IJCNN (Low)
 - 92 // FUZZ IEEE '92 (Bezdek)
 - 92 // Baltimore IJCNN (Lau)
 - 93 // Rostov-on-Don Symposium (Snyder)
 - 92 // Beijing IJCNN (Sha)...88
 - 92 // FUZZ IEEE '93/ICNN '93 (Ruspini)...92
 - 92 // Neural Networks Applications to Signal Processing (Bezdek)...101
 - 92 // Inverse Forum (Marks)
 - 92 // Power Forum '93 (Marks)
 - 92 // SP Forums (Marks)
 - 92 // VR Conference (Marks)...104
 - 92 // Nagoya ICNN '93 (Fukuda)...106
 - 92 // VR Workshop (Fukuda) → 95 Meetings.
 - 92 // WCIS '94 (Robinson)
 - Nominations Committee (Marks)...109
 - Publications Committee (Kartalopoulos)...111
 - Standards Committee (Karplus)...113
 - Video Tutorials (El-Sharkawi)
 - CD-ROM Production (Marks)...115
 - Regional Interest Groups (Alan)...119
 - Scholarships for Developing Countries (Newcomb)...120

7. Voting on Admission of New NNC Member Societies
 - Power Engineering Society...123
 - Computer Society...130
8. Election of Officers for 1993 (Marks)
9. Consent Agenda...122
 - Approval of appointment of Associate Editors for TNN
10. Discussion Items
 - Relationship with INNS (adjourn to executive session)...131
 - Beijing Conference
 - San Francisco Conferences
 - Portland Conference
 - Nagoya Conference
 - '94 World Congress
 - '95 Conferences
11. Old Business
 - Council Name Change (Marks)...133
 - Towards a Society
 - Council Structure
 - Council History
12. New Business
 - Conflict of Interest (Ruspini)...138
 - Technical Committees*

IEEE NEURAL NETWORKS COUNCIL

June 2, 1992

NNC EXECUTIVE COMMITTEE (ExCom) (1992)

President

Russell C. Eberhart
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709
(919) 541-7123 (O)
(919) 481-4269 (H)
rce@rti.rti.org
fax: 919-541-8746

Vice President

Patrick K. Simpson
Orincon Corporation
9363 Towne Centre Drive
San Diego, CA 92121
(619) 455-5530 ext. 267 (O)
xm8@sdcc12.ucsd.edu
fax: 619-453-9274

Treasurer

Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506
(304) 293-6371, ext 510
rsn@a.coe.wvu.wvnet.edu
FAX: (304) 293 5024
(H) (304) 599-8838

Secretary

(The Secretary Chairs the Constitution and Bylaws Committee)

Toshio Fukuda, Chair
Nagoya University
Department of Mechanical Engineering
Furo-Cho, Chikusa-Ku
Nagoya, Japan
81 52 781-5111, Ex. 4478, 3301
FAX: (052) 781-9243
d43131a@nucc.cc.nagoya-u.ac.jp
81-3-3268-2545 (H)

Past President

(the Past President Chairs the Nominations Committee.)

Robert J. Marks II
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195
(206) 543-6990
marks@milton.u.washington.edu
FAX:(206) 543-3842

STANDING COMMITTEES

Publications Committee

Stamatios Kartalopoulos, Chair
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981
(201) 386-4289
FAX: (201) 386-6346.

Transactions Editor

Robert J. Marks II, Editor-in-Chief
IEEE Transactions on Neural Networks
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street SW, Suite N
Lynnwood, WA 98036-7138
(206) 543-6990
marks@milton.u.washington.edu
FAX:(206) 543-3842

Awards Committee

Bradley Dickinson, Chair
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
bradley@ivy.princeton.edu
(609)258 -4644
FAX: (609) 258-3745

Fellows Committee

Robert W. Newcomb, Chair
Microsystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD 20742
FAX 301-314-9281
301-405-3662 (O)
newcomb@eng.umd.edu

301-662-0177 (Home)

Meetings Committee

James C. Bezdek, Chair
Nystul Professor
The University of West Florida
Computer Science
11000 University Parkway
Pensacola, Florida 32514-5750
(904) 474 2784
(904) 479 3817 (H)
FAX 904 474 2096
jbezdek@uwf.bitnet

Standards Committee

Walter Karplus, Chair
3732 Boelter Hall
UCLA
Los Angeles, California 90024
(213) 825-2929
FAX (213) 825-2273
karplus@cs.ucla.edu
Home: (213) 472-8632

Education Committee

Robert W. Newcomb, Chair
Microsystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD 20742
FAX (301) 454-1837
301-454-6869 (O)
301-454-8830 (Lab)
newcomb@sparcee.eng.umb.edu

COUNCIL MEMBER SOCIETY REPRESENTATIVES

Circuits and Systems

Edgar Sanchez-Sinencio (1991-92)
Dept. of Electrical Engineering
Texas A&M University
College Station, Texas 77843
(409) 845 7498
FAX (409) 845 7161
sanchez@ee.tamu.edu

Robert W. Newcomb (1992-93)
Microsystems Laboratory

Electrical Engineering Dept.
University of Maryland
College Park, MD
301-405-3662 (Office)
fax 301-314-9281
newcomb@eng.umd.edu
301-662-0177 (Home)

Communications

Kesh Bakhru (1991-92)
Cubic Corporation
9333 Balboa Avenue
San Diego, CA 92123
(619) 277-6780, ext. 2648
FAX: 619-277-8819

Stamatios Kartalopoulos (1992-93)
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981
(201) 386-4289

Control Systems

Herbert E. Rauch (1991-92)
Lockheed 92-30/250
3251 Hanover Street
Palo Alto, CA 94304
(415) 424-2704
FAX: (415) 424-3106

Bradley Dickinson (1992-93)
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
bradley@ivy.princeton.edu
(609) 258-4644
(609) 258 2916 (Dean's Office)
FAX: (609) 258-3745
(415) 895 0647 (H)

Engineering in Medicine and Biology

Shiro Usui (12/93)
Physiological Engineering Lab
Information and Computer Sciences
Toyohashi University of Technology
usui@tut.ac.jp@relay.cs.net
Hibarigaoka Tenpaku
Toyohashi, Japan 441
+81 532 47 0111
FAX +81 532 46 7806

Charles J. Robinson (1991-92)
Rehabilitation R&D Center
Hines VA Hospital
P.O. Box 20
Hines, IL 60141
(312) 343-7200 Ext. 2240

Industry Applications Society

George E. Cook (12/92)
Vanderbilt University
Box 2215, Station B
Nashville, TN 37235
(615) 322-2259

Bimil K. Bose (12/93)
Dept. of Elec. Engg.
Ferris Hall 419
University of Tennessee
Knoxville, TN 37996
615-675-9505

Industrial Electronics

H. Troy Nagle (12/92)
Electrical and Computer Engineering
North Carolina State University
Box 7911
Raleigh, NC 27695-7911
t.nagle@ieee.org
919-515-3578 (O)
919-515-7382 (Fax)

Evangelia Micheli-Tzanakou (12/93)
Biomedical Engineering
Rutgers University
P. O. Box 909
Piscataway, NJ 08855-0909
etzanako@nova.rutgers.edu
908-932-3155, 2037 (O)
908-932-3753 (Fax)

Information Theory

Anthony Kuh (1991-92)
University of Hawaii at Manoa
Honolulu, HI 96822
(808)-948-7576
kuh@wiliki.eng.hawaii.edu

Terrance L. Fine (1992-93)
Cornell University
School of Electrical Engineering
Phillips Hall

Ithaca NY 14853
607 255 3643
tlfine@sibelius.ee.cornell.edu

Lasers and Electro-Optics

Dr. Tien-Hsin Chao (12/93)
Jet Propulsion Laboratory
M/S 300-329
4800 Oak Grove Drive
Pasadena, CA 91109

Nabil H. Farhat (1991-92)
Moore School of Eng.
University of Pennsylvania, D-2
33rd and Walnut Sts.
Philadelphia, PA 19104
215 898 5882
farhat@pender.ee.upenn.edu

Oceanic Engineering Society

Richard Trueblood (1990-91)
Oricon Corporation
9363 Towne Centre Dr.
San Diego, CA 92121

Robotics and Automation

Thomas Miller (1990-91)
Dept. of Elec. and Computer Engineering
Kingsbury Hall
University of New Hampshire
Durham, New Hampshire 03824
(603) 862-1326
t_miller@unhh.unh.edu

Wesley E. Snyder (1991-92)
Dept. of Radiology
Bowman Gray School of Medicine
300 S. Hawthorne
Winston-Salem, NC 27103
(919) 748 3908 (O)
(919) 748 2870 (Office fax)
(919) 922 1633 (H)
(919) 922 1633 (FAX)
wes@relito.medeng.wfu.edu

Signal Processing

Les E. Atlas (1991-92)
Interactive Systems Design Laboratory
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA98195
(206) 543-1315
les@isd1.ee.washington.edu
FAX:(206) 543-3842

Richard P. Lippmann (1990-91)
MIT Lincoln Laboratory
P.O. Box 73
Lexington, MA02173
(617) 981-2711
rpl@sst.ll.mit.edu

Systems, Man, and Cybernetics

Don E. Brown (1990-91)
Dept. of Systems Engineering
University of Virginia
Charlottesville, VA 22903-
(804) 924-5393
deb@virginia.bitnet

James M. Tien (1991-92)
Dept. of Decision Sciences & Eng. Sys.
Rensselaer Polytechnic Institute
Troy, New York 12180-3590
(518) 276 6486
FAX (518) 276 8227
jmtien@rpitsmts.bitnet

Minutes of the Administrative Committee of the IEEE Neural Networks Council

The meeting was called to order 16:35 at the Town & Country Hotel in San Diego on March 8, 1992 by Dr. Eberhart

Present: (* denotes voting member) Eberhart*, Simpson*, Snyder*, Nagle*, Robinson* (with Usui* proxy), Chao*, Aria, Newcomb*, Marks*, Nutter*, Bezdek, Caudell, Lendaris, Tien*, Trueblood*, Alan)

President Eberhart discussed proxies. According to the Council Constitution, AdCom members may not assign their own proxies. Proxies, rather, must come from the President of the society. In addition, officers may not delegate their powers by Proxies

Proxies: Gerald F. Harris, President of EMBS passed a proxy (for Usui) to Charles Robinson for EMBS (Attachment 0). Other proxies (2 for Marks, 5 for Newcomb, and Aria for Secretary Fukuda, were declared invalid).

A quorum was declared by President Eberhart.

AGENDA CHANGES

Marks requested the workshop cluster and meeting management items removed from the agenda.

Robinson moved and Marks seconded approval of agenda. PASSED

Marks moved and Robinson moved the consent agenda. Passed.

ROBINSON moved to dispense with reading the minutes. Seconded by Marks. PASSED.

Nutter indicated two items said to be attached to the minutes were not and asked that they be provided next meeting.

Robinson moved that the minutes be approved as corrected. Seconded by Simpson. Passed.

Officer reports:

PRESIDENT: Eberhart reported on internet survey (copy in the grey book). About 16 responses were received. He also reported that, with the consent of IEEE HQ, he terminated the INNS agreement on Feb 26. The letter sent out was actually prepared by Hertz, Engleson, and Powers. (A copy marked DRAFT and dated a few days earlier, was in the grey book.)

VP REPORT: Simpson said his job was to support President Eberhart.

TREASURER'S REPORT: Nutter referred to the treasury summary in the grey book. The IEEE now requires Social Security and IEEE numbers for all travel advances. When an advance is made, reimbursement requirements must be filed within 120 days.

SECRETARY'S REPORT: none

EDITORS' REPORT

TNN: Marks reported that a conflict of interest policy has been drafted. The current queue length is about one issue. Papers are coming in at about 2 per business day.

TFS: Bezdek reported that final approval for Fuzzy Transactions is coming at next TAB meeting. Jim Bezdek reported that he has received about 10 papers which could go into the FT when approved. The Council newsletter will run the call for papers as soon as it is approved.

NEWSLETTER: Snyder distributed the financial report for the Newsletter (Attachment 1).

IJCNN oversight committee report:

Nutter reported that the last meeting was in Seattle in July. President Eberhart's letter has ended the committee's duties. The last report is in Tab 3 of the grey book.

Awards committee:

Newcomb reported as a committee member. Nominations for awards are sought. (Attachment 2).

Moved by Bob Newcomb and seconded by Charlie R. Approve the proposal in Attachment 3, with the award modified to be \$1000.

DISCUSSION: There was little parity with the NN Pioneer Award. The NN Pioneer Award had no cash award. Up to three NN Pioneer awards can be awarded each year. More parity was considered important.

Marks moved to refer action back to committee. Tien seconded. Passed.

Education Chair Report (Newcomb): Student travel support (\$5,000) approved by the Council is now used up.

Fellows committee: (Newcomb) has been working with IEEE to organize the Fellows committee.

Standards committee; (Walter Karplus) The Committee has had one meeting. About 300 people have agreed to participate.

(See Attachment 4). Karplus has been elected to the IEEE Standards Board.

Meetings committee (Bezdek):

Motion from Committee: Budget for Rostov (in grey book) be approved.

DISCUSSION: Snyder reported on the conference's status (Attachment 5).

PASSED

Report: The Meetings Committee requested a modified budget for Fuzz 93 (Attachment 6). The Committee asked to reduce promotion from 95 to 55K, and asked for a scaled back the projected attendance. Secretary NEEDS A COPY OF THIS BUDGET.

Nutter moved that in all future contracts there be no hotel kickbacks. Snyder seconded. Snyder and Nutter withdrew the motion to allow for further wordsmithing.

Dr. Eberhart called for a recess at 6:01 PM.

The meeting was reconvened at 7:02 PM

MOTION: Lendaris, second by Nutter: For all future NNC Sponsored Conferences, at the opening of negotiations, the NNC representative is to make clear that rates for all rooms and services will be established on a no-commission basis, with the exception of complementary rooms and/or services provided by the vendor to the Conference Organizing Committee for the direct benefit of the conduct of the meeting or the sponsoring organizations.

PASSED

Baltimore IJCNN - Report from Dr. Eberhart

About 750 papers were submitted. For COGANN, about 100 were estimated to attend. Dr. Eberhart has met with Dr. Lau. The conference will be an ICNN instead of an IJCNN. The surplus will be split between the Council and the INNS. This has been approved by IEEE Corporate.

Singapore IJCNN

Nutter reported preliminary audit results. About 600 attended. A deficit of US\$12,000 occurred. This will be split three ways, among INNS, the Singapore section and the Council.

Seattle IJCNN

Lendaris estimated a net surplus of about \$120,000. A final audit will be initiated in a few weeks.

Motion by Robinson, second Nagle: The President is directed to author letters of appreciation to the organizing committee of the Seattle IJCNN.

PASSED

FUZZ-92

Bezdek reported that 450 paid registrations this morning. A modest surplus is projected.

Beijing IJCNN

Eberhart reported that the Council's policy is to leave the status of the Beijing conference to Dr. Zong Sha. It was pointed out that our copy of the letter from Szu to Sha (in the grey book) is missing a component attachment which was a twelve page list of "demands" that the INNS stated for the CNNS to accept before the INNS would sponsor the conference. Robinson indicated that it would be desirable to first discuss the dissolution agreement prior to continuing the discussion of the China conference.

Motion: Robinson, Marks second: The Adcom affirm the action of the president of the NNC in terminating the agreement with the INNS regarding the IJCNNs as outlined in the letter of Feb 26, 1992.

Robinson moved that discussion of the INNS situation be conducted as a committee of the whole. Seconded Snyder Passed.

Convened as Committee of the Whole at 7:56

Committee of the whole memoranda:

The committee of the whole resolved the motion be amended to make the action subject to receipt of a written confirmation from Eric Hertz. A letter to be publicly distributed, initially drafted by Pat Simpson, will be put to AdCom vote. The letter will be published in Council publications.

The committee of the whole adjourned at 9:45PM to regular session.

Robinson moved to postpone the motion on the table until after the discussion of the Beijing. Seconded by Nagle. Passed.

Robinson moved that the budget as presented for Beijing be disapproved because it does not adhere to IEEE guidelines. Newcomb seconded.

Discussion: The budget asked excessive reimbursement for speakers (paragraph 9 of paragraph 9 of the original agreement) and was not received in time.
Passed.

Marks moved the question on the original motion.

The call of question failed.

ROBINSON proposed an amendment to the motion:

The motion be conditioned on receipt of a written confirmation from the Executive Director of the IEEE.

Amendment Passed.

Amended motion passed by ACCLAMATION.

MOTION: (Robinson, Tien second) The VP be directed to draft a letter, which, after review and approval by a majority of AdCom, will be placed in the Council Newsletter to be mailed to all subscribers of newsletter and conference attendees outlining the philosophical differences between INNS and NNC regarding IJCNN's.

Friendly amendment: Publish the letter in other appropriate places. Submit to the INNS journal.

Passed.

Lendaris moved that in the event that the termination of the IJCNN with the INNS is concluded, that the NNC will

- 1) continue involvement with the Portland 93 meeting in the participant category and
- 2) play the role of advocate to the IEEE that the Portland meeting be allowed to participate in the IEEE publishing and book buyback program.

Marks requested adjournment to Executive session for 20 minutes.

Executive session lasted 19 minutes. The meeting was opened to regular session.

Marks made a motion to amend Lendaris' motion to replace "participation" with "cooperation" with the understanding that no IEEE or Council logo can be used in publicity for the conference, but can be used on publications, and that the NNC would support communication with the IEEE book broker. Simpson seconded.

DISCUSSION: Robinson made the observation that this proposed action in no way is intended to reflect on the conference chair personally.

Amendment passed. Nagle and Tien abstained.

Amended motion passed as amended: Nagle and Tien abstained.

Meetings Committee moved the approval in principal of the '93 conference on virtual reality: Seattle, subject to smoothing of the budget. A portion of the seed money, \$10K, will be advanced (See Attachment 7).

DISCUSSION: The revised budget is to be submitted to the Baltimore AdCom this summer.

PASSED

Meetings Committee recommends that the AdCom pass to ExCom, with consent of Meetings Committee Chair, authority for final approval of the budget for Nagoya '93 (see Attachment 8).

Robinson moved, Tien seconded, to defer the motion back to Meetings Committee and that the Meetings committee report to AdCom at the June meeting.

PASSED

Marks moved, Nagle seconded that the NNC give cooperating status to grant cooperation to three meetings. Robinson moved division of the question. Tien seconded. Passed.

1) the Power Forum in Japan, April 19-22, 1993. passed

2) and to the Signal Processing workshop in Copenhagen August 31-Sept 2 1992, Passed

3) The "Second International Conference on Fuzzy Logic and Neural Networks" July 1992 in Izuka. Defeated.

Marks described the International Conference on the Application of Neural Networks in Signal Processing in Singapore March 1993. (A budget is in the grey book).

MOTION: Robinson moved, Newcomb seconded: The NNC be a 1/3 sponsor of the conference subject to financial loss not to exceed \$5000, and under the condition that the conference approach the Signal Processing Society. Newcomb seconded. Motion passed.

Meetings Committee approved a motion to pass to NNC President responsibility for acting on an invoice from Meeting Management for a trip which was not authorized.

Simpson moved (Marks seconded) that the adcom ratify
Bonissone for FUZZ-IEEE '94 General Chair
Major Steve Rogers for ICNN '94 General Chair
Charles Robinson as World Congress '94 General Chair

Passed

Discussion on the Japanese Virtual reality workshop.

Motion by Robinson, second by Nagle to move discussion of this workshop to Meetings Committee. Passed.

Nominations committee:

Bob Marks (Chair), Vince Poor and Teck Low constitute the Nominations Committee (see letter in grey book). Nominations are due (with seconds) to the committee by May 4. Elections will be held at the Baltimore AdCom meeting.

Publications committee:

1. The Committee moved the Council support supply of stationary to TNN Associate Editors (motion in grey book)

Passed.

2. Motion: Ad Policy & Rate - Proposal in Grey book: Charge the maximum of twice the production cost or twenty five percent more that the cost of the newsletter, appropriately rounded. The Council Treasurer will pursue approval by IEEE.

Section (b) of the motion in the grey book was deleted.

Motion passed.

(Marks excused himself from the meeting during discussion and vote on the following two motions).

3. Motion from Committee: Xerox machine for Marks (verbiage in grey book): Passed

4. Motion from Committee: Resolution of conflict of interest (verbiage in grey book):
Passed. One abstention, not recorded as to name.

5. Increase CD-ROM budget for IJCNN92:

Motion from Committee: The IEEE NNC approves \$15 for production of 1500 CD-ROMS for IJCNN '92. This will be paid for by Council funds and billed to the conference.

Motion to divide the question. Passed.

Motion: The IEEE NNC approves \$15000 for production of 1500 CD-ROMS for IJCNN '92. Passed.

Motion: This will be paid for by Council funds and billed to the conference.

Friendly Amendment: The conference will not be billed. Only IEEE Members will be given the CD-ROMs.

Passed

Amended motion passed

6. G.A. Transactions (Greffenstette e-mail Attachment 9).

RESOLVED: Drs. Eberhart, Kartalopoulos, Simpson & Snyder form an AdHoc Committee to pursue a GA and Evolutionary Transactions. Eberhart will Chair.

Motion from Committee: AdCom endorses pursuance of this action.

Motion passed

7. Motion from Committee: The Publications Committee Chair is tasked to form a Book Publications Subcommittee of the Publications Committee, with the advise and consent of the Council Present.

Passed

8. MOTION from Committee: Papers published in conference proceedings will not be published again in Council Transactions. Transactions papers, however, can be enhanced versions of previously published conference papers.

Passed

9. Motion: The Publications Committee Chair be authorized, with the consent of the Council President, to approve joint sponsorship of Computer Society Press books that deal with topics that intersect the Council's Field of Interest.

PASSED

Other Committee Reports:

COMAR: Marks referred the Council members to the report in the grey book.

Video Tutorials: Marks referred to El-Sharkawi report in the grey book.

Old Business:

Towards a Society

Discussion: Should we change our name to the IEEE Intelligence Systems Council?

Motion: Robinson, Marks second: The President is to bring the proposed name change before the President's Forum at TAB as a discussion item.

Motion passed.

Survey: Eberhart & Simpson will communicate the results to AdCom members.

NEW BUSINESS

a. NNC Membership: Power Engineering Society may join the Council. Letter has been said to be 'in the mail'.

b. Council Structure: Eberhart would like to have more VP's. This will take a constitutional amendment.

Nagle, Robinson & Tien appointed as subcommittee to bring a recommendation to AdCom. Robinson will Chair.

c. New Conference Activities: No further Report.

d. Regional Interest Groups:

Friendly Amendment: 'may request up to' to replace 'may bill'. Change 'will will' to 'will'. 'Local sections' be changed to 'local chapters'.

President Eberhart appointed Rick Alan as RIG Committee Chair. The Committee is AdHoc.

ACTION: The Robinson committee will consider this as a possible Council standing committee.

Council History: AdHoc Committee: Stubberud, Snyder & Marks with Snyder as Chair to explore chronicling of the Council history.

Trademarks & Logos: Simpson reported on the status of registering Council trademarks. The Council logo has been trademarked.

MOTION: Robinson, Newcomb Seconded: Authority is delegated to a subcommittee of the AdCom to decide on all items relating to financial matters for Beijing. The subcommittee will meet at 10:00 AM on Monday.

DISCUSSION: The motion was made in anticipation a quorum would not be available the next morning. If a quorum of voting members were present, the meeting will be in regular session.

PASSED

President Eberhart declared a recess till 10 AM Monday morning.

Meeting reconvened at 10:07AM, March 10, 1992 at the Town & Country Hotel, San Diego by Dr. Eberhart

Present: Eberhart*, Simpson*, Snyder*, Nagle*, Robinson* (with Usui* proxy), Chao*, Aria, Newcomb*, Marks*, Nutter*, Lau, Bezdek, Tien*, Ruspini.)

President Eberhart declared a quorum. The meeting was therefore opened in regular session rather than as a subcommittee.

Discussion on Beijing: Dr. Eberhart has talked to Irv Engelson at IEEE this morning. The letter from Hertz is probably no problem. The Beijing conference was discussed. Dr. Engelson and President Eberhart will call Dr. Sha. Dr. Lau reported that he met with Mr. Downey. Downey's position is that the dissolution must be from both sides. Dr. Eberhart remarked that this is contrary to the opinion given by IEEE Corporate. Lau stated that Downey felt INNS could cooperate with Dr. Sha. The body resolved that no further action on the Beijing conference was deemed necessary.

MOTION: (Robinson, seconded by Simpson) The Education Committee, in consultation with the Treasurer, be directed to consider scholarship awards for third world countries and report to AdCom in June.

PASSED

As Awards Chair, Dr. Dickinson will serve on the Committee. Dr. Aria has agreed to serve with the permission of Dr. Fukuda. Simpson agreed to serve as Past Treasurer.

MOTION: (Robinson, Nagle seconded) The Treasurer is tasked to formulate a policy draft for the Council's fiscal practices, including consideration of a reserve requirement. This will be presented to AdCom at it's next meeting.

PASSED

Discussion: Dr. Lau reported on the Baltimore IJCNN as the General Chair. About 720 + 30 invited papers were received. Four parallel sessions are planned. About 600 papers will be accepted. About half of the papers will be poster papers. Simpson suggested that white boards be available in the poster session to allow participants to exchange ideas.

Moved to executive session.

Reconvened to Open Session on 11:42

MOTION: (Simpson, Newcomb second) Ruspini be appointed Chair of the ICNN in San Francisco for 1993.

DISCUSSION: Is there enough room to hold concurrent meetings in the Hyatt?

The brochures need to be ready by the Baltimore Meeting.

MOTION PASSED BY ACCLAMATION

MOTION: (Troy, Tien second) Ruspini is tasked to bring a budget, organizing committee structure, brochures, and call for papers for the combined meeting to AdCom no later than the Baltimore meeting.

DISCUSSION: The sense of the group is that the \$40k thus far advanced to FUZZ-IEEE 93 can be used by Dr. Ruspini for this task. Simpson reported that Feldman believes there is sufficient room.

MOTION PASSED

Next AdCom Meeting:

Sunday, June 2, 1992 at the Baltimore Sheraton Inner Harbor @ 9:00 AM.

Saturday Standing Committee meetings start around 9:00 PM on Saturday.

RESOLVED: The meeting was adjourned at 11:58AM by President Eberhart.

Minutes taken and submitted by Snyder & Marks.

TIMENTIN ticarcillin disodium
clavulanate potassium

ATTACHMENT

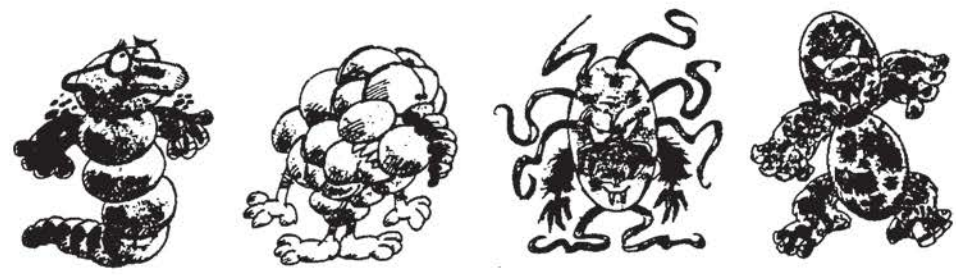
Printed on Recycled Paper ♻️

RUSS EBERHART ✓

Please allow Charles Robinson
proxy vote on behalf of EMB
Society for our missing
representative to Neuro-Nets.

Gerald F. Harris
President EMB

cc: Charles Robinson



©SmithKline Beecham, 1990

[Handwritten signature]

Newsletter Report
March 8-9, 1992

1991 Newsletter Expenses	May 1991 8pp	Oct 1991 8pp	Travel	Total
Composition (Prepress)	\$300	\$150		
Printing	\$2,400	\$1000		
Paper	not given	\$400		
Mailing	\$600	\$600		
US Postage	\$600	\$600		
NonUS Pstg	\$2,400	\$2000		
PubAdm(IEEE)	\$300	\$300		
Editors Fee	\$900	\$900		
Misc. Ed. Expenses	\$100	\$100		
IEEE Ed. Conf.			\$300	
IJCNN Seattle AdCom			\$700	
Subtotal	\$7600	\$6050	\$1000	\$14650
Adv Rev. Rec'd	(\$425)	(\$1960)		(\$2385)
Total Costs	\$7175	\$4090	\$1000	\$12265

17

EXPLANATION OF BUDGET ANOMALIES

Printing and Mailing: The only figures we have for printing and mailing are on the IEEE budget sheet, which is reported on a cash basis, so that bills not in are not available. All prepress work (Composition) for the second and third issues was done locally and negatives were sent to the IEEE. This apparently saves *a lot*.

Travel: Travel costs for the IEEE Editors Workshop were split with R&A. Travel costs for Seattle were split with Wes Snyder.

Advertising: Normal policy is not to charge for ads for conferences sponsored or cosponsored by NNC, but after I learned that the INNS Journal has charged for IJCNN ads, we did, too.

I did not solicit for ads for the third issue until the AdCom approved the quarterly publication schedule and larger format. I anticipate considerable increases in revenue in future issues.

Franklin-Spier (for MIT press) claimed & took an "agency discount" .

**Newsletter Report
March 8-9, 1992**

**1992 Newsletter February 92
Expenses 16pp**

Composition	\$310
Printing	\$1600
Paper	\$800
Mailing	\$600
US Postage	\$900
NonUS Pstg	\$2,400
PubAdm(IEEE)	\$100
Editors Fee	\$2840
Misc. Ed. Exp.	\$75

Winston Salem Litho
 Estimated
 Estimated
 Estimated
 Estimated
 Estimated
 New IEEE Rate Structure
 Contract Rate \$155/page
 Telephone, mailing expenses, film

Subtotal	\$9625
Adv Rev. Rec'd (\$600)	
Total Costs	\$9025

61

1991 Advertising

May 1991	Size	Billed	Paid
Hyperlogic	Quarter	\$325	\$325
Intelligence	2in	\$100	\$100
IJCNN Singapore	Half	\$600	
IJCNN Seattle	Two-Thirds	\$800	
FUZZ/IEEE '92	Two Thirds	NNC	
Total		\$1825	\$425

October 1991

CBMS Conference	Half	\$600	\$600
Franklin Spier Adv.	Half	\$600	\$510
Intelligence	Sixth	\$200	\$200
FBI	Quarter	\$325	\$325
HarnessDickeyPearce	Quarter	\$325	\$325
IJCNN Singapore	Third	\$400	
IJCNN Baltimore	Half	\$600	
RNNS/IEEE	Half	NNC	
Total		\$3050	\$1860

30

1992 Advertising

February 92	Size	Billed	Paid
Neurocomputing	Half	\$ 600	\$600
Intelligence	Sixth	200	
IJCNN China	Full	1000	
FUZZ/ieee93	Full	NNC	
Fuzz92	Half	NNC	
RNNSieee	Half	NNC	
IJCNN Balt	Full	1000	
Total		\$2800	\$600

21

**Newsletter Report
March 8-9, 1992****IEEE Council on Neural Networks
Newsletter Advertising Rates**

Issues/year	x1	x2	x3	x4
Full page: 9.5in x 7.25in; 24cm x 18.5cm	\$1000	\$1900	\$2800	\$3750
Half page 4.7in x 7.25in ; 11.5cm x 18.5cm or 9.5in x 3.7in; 24cm x 9cm	600	1150	1700	2200
Third page: 9.5in x 2.5in; 24cm x 6cm or 4.75in x 4.75 in; 12.cm x 12cm	400	725	1050	14500
Quarter page: 4.7in x 3.7in; 11.5cm x 9cm	325	600	900	1000
Sixth page: 4.7in x 2.5in; 11.5cm x 6cm	250	475	625	800
Classified (per column inch):	\$50			

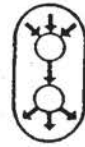
There is a \$25 surcharge for advertisements with halftones. Rates for color ads (one additional color only) will be provided on request. The Newsletter is printed in a 8 1/2 X 11 two- and three-column format. Classified ads will be type-set. Advertisers must provide camera ready copy or film (133 screen, rightside reading emulsion side down) for display ads. Checks should be made payable to the IEEE. Send copy and purchase order or payment to:

Ms. Rosalyn Snyder, Managing Editor
IEEE Neural Networks Council Newsletter
5630 Lakeside Drive
Pfafftown NC 27040
Phone/Fax 919-922-1633
email: roz@mrips.bgsu.wfu.edu or wes@mrips.bgsu.wfu.edu



IEEE

NEURAL NETWORKS COUNCIL



Bradley Dickinson
Chair, Awards Committee

PLEASE REPLY TO:
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544 USA
Tel: (609) 258-4644
FAX: (609) 258-3745
e-mail: bradley@ivy.princeton.edu

Nominations Sought for IEEE Neural Networks Council Awards

The IEEE Neural Networks Council is soliciting nominations for its two awards. The awards will be presented at the June 1992 International Joint Conference on Neural Networks. Nominations for these awards should be submitted in writing according to the instructions given below.

IEEE Transactions on Neural Networks Outstanding Paper Award

This is an award of \$500 for the outstanding paper published in the IEEE Transactions on Neural Networks in the previous two-year period. For 1992, all papers published in 1990 (Volume 1) and in 1991 (Volume 2) in the IEEE Transactions on Neural Networks are eligible. For a paper with multiple authors, the award will be shared by the coauthors.

Nominations must include a written statement describing the outstanding characteristics of the paper. The deadline for receipt of nominations is April 20, 1992. Nominations should be sent to Prof. Bradley W. Dickinson, NNC Awards Chair, Dept. of Electrical Engineering, Princeton University, Princeton, NJ 08544-5263.

IEEE Neural Networks Council Pioneer Award

This award has been established to recognize and honor the vision of those people whose efforts resulted in significant contributions to the early concepts and developments in the neural networks field. Up to three awards may be presented annually to outstanding individuals whose main contribution has been made at least fifteen years earlier. The recognition is engraved on the Neural Networks Pioneer Medal specially struck for the Council.

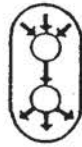
Selection of Pioneer Medalists will be based on nomination letters received by the Pioneer Awards Committee. All who meet the contribution requirements are eligible, and anyone can nominate. The award is not approved posthumously. Written nomination letters must include a detailed description of the nominee's contributions and must be accompanied by full supporting documentation. For the 1992 Pioneer Award, nominations must be received by April 20, 1992. Nominations should be sent to Prof. Bradley W. Dickinson, NNC Pioneer Award Chair, Department of Electrical Engineering, Princeton University, Princeton, NJ 08544-5263.

Questions and preliminary inquiries about the above awards should be directed to Prof. Bradley W. Dickinson, NNC Awards Chair;
telephone: (609)-258-2916, electronic mail: bradley@ivy.princeton.edu



IEEE

NEURAL NETWORKS COUNCIL



Bradley Dickinson
Chair, Awards Committee

PLEASE REPLY TO:
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544 USA
Tel: (609) 258-4644
FAX: (609) 258-3745
e-mail: bradley@ivy.princeton.edu

March 6, 1992

Proposal to NNC AdCom from the Awards Committee

At the suggestion of Prof. John Yen of Texas A&M University, the Awards Committee has formulated a proposal for an award in the fuzzy systems area. It is proposed for discussion and approval by the NNC AdCom; should it be approved, the proposal would go to the IEEE TAB Awards and Recognition Committee for their consideration and approval.

Two changes have been made to the award description as formulated by Prof. Yen. First: he proposed that the name be "IEEE Neural Network Council Zadeh Award" and it is not deemed appropriate to use the name of a living person in the award name. Second: the amount the award has been set at \$1000 rather than a larger amount. This is deemed appropriate in view of the fact that our prestigious Pioneer Awards carry no cash award and our Transactions Paper Award carries a \$500 cash award.

What follows is the award description which is to be discussed and approved (subject to amendments) by the NNC AdCom.

A handwritten signature in cursive script that reads "Bradley Dickinson".

Bradley Dickinson
IEEE NNC Awards Committee Chair

Name of Award: IEEE Neural Networks Council Fuzzy Logic Technology Award

Description: For a major contribution to the development of outstanding fuzzy logic applications that have had significant impact on industrial usage of fuzzy logic technology.

Administration: By the Awards Committee of the Neural Networks Council. An Ad Hoc Subcommittee will solicit nominations and judge the candidates. Their selection will be submitted to the Awards Committee for approval and to the Administrative Committee of the Neural Networks Council for final approval.

Eligibility: Open to all meeting the contribution requirements. The award is not to be approved posthumously. Anyone can nominate.

Award: Certificate, a cash award of \$2,000, and travel grant for the honoree and companion to the awards ceremony.

Funds: Funding will be from the non-dues revenue of the IEEE Neural Networks Council or from industrial donations.

Nominee Selection: Selection will be based on nomination letters received by the Awards Committee of the IEEE Neural Networks Council.

Award Committee: The selection committee will be an Ad Hoc Subcommittee of the Neural Networks Council Awards Committee. With the passage of time, the membership of the Ad Hoc Subcommittee will be composed in part or in full by prior Award holders.

Schedule: The selection will be made annually with nominations invited in July, nominations closed on November 1, selection by January 1, Neural Network Council approval by February 1, and public award at the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), usually in March.

Selection: At most one recipient of the award in any year.

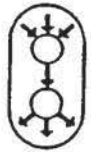
Presentation: The award will be presented at the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE).

Publicity: The award winners will be announced publicly in the IEEE Transactions on Fuzzy Systems, and a flyer will be prepared for distribution at the annual FUZZ-IEEE.

Term: The award will be administered as described here for a period of 5 years. Renewal of the award under the same or modified procedures is possible, depending on the five year experience with the award.



NEURAL NETWORKS COUNCIL



Walter Karplus
Chair, Standards Committee

PLEASE REPLY TO:
University of California
3732 Boelter Hall
Los Angeles, CA 90024 USA
Tel: (213) 825-2929
Fax: (213) 825-2273
karplus@cs.ucla.edu

NNC- Standards Committee

REPORT OF ACTIVITIES

March 8, 1992

July 8 - 12 , 1991

Appointment of NNC-Standards Coordinating Committee (SCC)

Meeting of SCC at IJCNN-91 in Seattle

Open meeting of all IJCNN-91 participants interested in standards
(45 attendees)

Formation of three provisional working groups:

1. Glossary and Symbols: Mary Lou Padgett, Auburn University - Chair
2. Paradigms: Litza Tzanakou, Rutgers University - Chair
3. Performance Evaluation Methodology: Robert Shelton, NASA/JSC - Chair

To be formed later: Hardware and Software Interfaces

These working groups were publicized in the October 1991 issue of Connections. In addition, e-mail links were established for the SCC and the individual working groups. As a result, over 300 individuals are now on the NNC Standards Committee mailing list.

Working Group chairs Padgett and Shelton have worked energetically to launch their activities and have enlisted a number of enthusiastic collaborators. Tzanakou has proceeded more slowly but is now commencing serious efforts.

October, 21 - 23, 1991

The Glossary group met at SimTech-91 (an SCS and SPIE Conference) in Orlando, FL and made substantial progress.

February 10 - 12, 1992

The Standards Coordinating Committee met at Auburn University in conjunction with WNN-92. It was decided to go "full speed ahead" on the Glossary and Performance Evaluation. Dale Nelson of Wright-Patterson volunteered to provide technical backup and administrative assistance for the glossary project. The Performance Evaluation Group received expressions of support from two Navy installations. It was to decided to defer the formation of an Interface Working Group for at least six months. Contacts have been established with the Standards Committee of the Microcomputer Section of the IEEE Computer Society, which had been moderately active some time ago in seeking interface standardization but which has become inactive during the past year.

Working Group meetings of the Glossary and Performance Evaluation groups were attended by approximately 20 conference participants. The Glossary group decided to proceed with the circulation of a modified version of a glossary prepared by Russell Eberhart. The meeting of the Performance Evaluation group was marked by very lively discussions and diverging points of view. Robert Shelton is digesting and crystallizing the inputs received verbally at the meeting and in writing in preparation for the next major meeting of the working groups in Baltimore at IJCNN-92.

Future Standards Committee Meetings:

April, 1992 SCS Multiconference, Orlando, FL

July 1992 IJCNN-92 Baltimore

November 1992 IJCNN Beijing (tentative)

Submitted by: Walter J. Karplus, Chair and Mary Lou Padgett, Vice-Chair

NNC STANDARDS COMMITTEE

Coordinating Committee

David K. Andes	Naval Warfare Center, China Lake
Ralph Castain	Los Alamos National Laboratory
Russell Eberhart	Research Triangle Institute
Walter Karplus	UCLA (Chair)
Richard Lippmann	Lincoln Laboratories
Robert Marks	University of Washington
Mary Lou Padgett	Auburn University (Vice Chair)
Robert Savely	NASA / Johnson Space Center
John Taylor	King's College, UK
Evangelica Tzanakou	Rutgers University
Shiro Usui	Toyohashi University, Japan
Bernard Widrow	Stanford University

ATTACHMENT

5

Status

(as of Sunday, March 1)

Announcement run in Oct. Newsletter (8,500)

Personal invitations sent in Jan 30

Responses received:

No, I will not particate 22

Yes, I will (but have not submitted yet) 3

Papers submitted 12

Current mailings:

5,400 one page calls response due March 5 papers due Mar 31

300 personal letters same due dates

29

Refusals

Bradley Dickinson
Thomas Petsche
John moody
Clifford G. Lau
Roy S Nutter
Dr Walter Karplus
Akira Ishimaru
Chris Lacher
Gerald Tesauro
Michael Lemmon
Kunihiko Fukushima
G. Dreyfus
Dr. Michel
B.H. Juang
Demitri Psaltis
Darrell Whitley
R.P. Lippmann
Etienne Barnard
Nabil Farhat
Narendra
Fernando Pineda
George G. Lendaris(probably)

30

Accepts

J. bezdek
Ray Watrous
Yoshiyasu Takefuji

31

S. M. Lucas, R. I. Damper
*A Connectionist Approach to Text-Phonemics
Translation Using Syntactic Neural Networks*

Jens Damgaard Andersen
*Methods for Modeling the First Layers of the Ret-
ina*

Dr. Vittorio Sanguineti, Pietro Morasso
Cortical Maps for Motor Planning

F. Druaux, M. Gorka, A. Faure
*Influence of Stimuli on the Comportment of an
Artificial Neural Population*

Dr. M. E. Ulug
*A Rapid Learning Orthogonal Neural Network
for Pattern Recognition*

Kwok-wai Cheung, Tong Lee
Neural Network for Global Optimization

E. C. van der Meulen, T. S. Turova
*Synchronization in a Basic Neuronal Model with
Excitatory Connections*

**Shinichi Tamura, Hisashi Taketani, Hiroshi
Mitsumoto, Kozo Okazaki, Hideo Kawai,
Yutaka Fukui**
*Detection and Normalization of Pattern Position
by Neural Network*

**S. Allemand, E. V. Birjukova, Y. Burnod, M.
Dufosse, A.A. Frolov**
*Reference Frame for Movement Control in Brain
Neural Network Simulation*

**Yungsik Kim, Sarah A. Rajala, Wesley E. Sny-
der**
*Image Segmentation Using an Annealed Hopfield
Neural Network*

Alain Faure, Fabrice Druaux, Marc Gorka
*Equilibrium States and Oscillation of an Artifi-
cial Neural Network*

**Keiji Agusa, Satoshi Fujita, Masafumi
Yamashita, Tadaski Ae**
*On Neural Networks for Graph Isomorphism
Problem*

Announcement

1992 RNNS/IEEE

Symposium on Neuroinformatics and Neurocomputers

Jointly sponsored by the IEEE Neural Network Council and
Russian Neural Network Society

Organized by A.B. Kogan Research Institute for Neurocybernetics
and "Internauka" Center at Rostov State University

ROSTOV-ON-DON

Oct 7 - Oct 10

RUSSIA

Symposium Committee

Symposium Chair: Vitali Denis-Barkovitsky
International Chair: Robert Marks II
Chair: Yuriy Gubanov
Advisory Board Chair: Wesley Skaggs and
Program Committee Alexander Prolov
Local Committee Chair: Anatoly Korotkov

Advisory Board

Ju. Gulyaev, R. Hecht-Nielsen,
R. Marks II, E. Neuperkin,
A. Mikheyeva

Organizing Committee

Dobson A.V., Bojko V.V., Chernina O.G., Denis-Barkovitski V.L.
Chair, Eberhardt E., Emel'yev S.V., Gubanov A.L.,
Guziev M.A., Hecht-Nielsen R., Kalyshev A.V., Kaplan D.,
Krasnoper, Kibonnyakov A.A., Korotkov A.A. - treasurer,
Kropotov A.D., Kuznetsov G.A., Kuznetsov N.A., Lavrov E.G.,
Lobanov V.S., Pelikhov N.V. - Vice-Chair, Samarin A.L.,
Shervinson N.A. - Secretary, Vasilkov E.P., Vlasovskiy B.M.

Local Committee

Babkov N.G., Bryukovskiy J.A., Efimov V.N., Pashchenko V.N.,
Pavlovskaya R.A., Karpovskiy I.D., Kizelov B.S., Korotkov A.A. -
Chair, Fedt V.G., Petukov A.A., Sakhov A.G., Tashkin V.L.,
Zackerman V.D.

Program Committee

A. Amari, S. Amari, J. Bezdek, R. Boedigsmat, J. Bower,
G. Carpenter, A. Chermanskiy, W. Dunaier-Barkovitski, R. Eckmiller,
N. Farber, A. Fedorov, T. Fukuda, A. Gotscha, A. Gotsman, N. Hsu,
M. Khamis, E. Kussul, E. Levichenko, R. Newcomb, A. Petukov,
L. Podolskiy, I. Rytov, A. Samarin, P. Sangara, W. Sarder,
I. Taylor, S. Thomas, A. Veltenov, V. Yachno

Attention!

Neural Network researches in the former USSR were flourishing
those years when there was a recession in this field in Western
countries.

Nowadays (because of economic state) and before (because of
political reasons) there are very limited possibilities for the
Russians to go abroad. So, the only real chance to meet a lot
of originally minded neuronetworkers from the former USSR is to

Technical Sessions

- . *Natural Neural Systems Informatics*
- . *Neurocomputers Perspectives*
- . *Learning in Neural Networks*
- . *Sensory Information Processing and Motor Control*
- . *Neurocomputers Hardware*
- . *Neural Information Theory and Coding*
- . *Optimization Techniques*

Plenary Speakers

- R. Hecht-Nielsen
- M. Ito
- A. Kalyaev
- T. Kohonen

Symposium Schedule

Wednesday, October 7

Plenary Session 10:00 a.m. - 12:30 p.m.
 Technical Session 1:30 p.m. - 5:30 p.m.
 Reception 6:00 p.m. - 8:00 p.m.

Thursday, October 8

Technical Session 8:30 a.m. - 6:30 p.m.
 Party 7:00 p.m. - 10:00 p.m.

Friday, October 9

Freshair Session on a tourboard on the Don river 9:00 a.m. - 4:00 p.m.
 Poster session 5:00 p.m. - 8:00 p.m.
 Committee Dinner 8:30 p.m.

Saturday, October 10

Plenary Session 9:00 a.m. - 1:00 p.m.

Most participant will be accommodated in hotels in central Rostov within walking distance of the Symposium centre.

Hotels rates

Category	(per night)
de luxe	\$120
double (for 1 or 2)	\$80
single	\$65
double for 2	\$40

Registration fees

	Up to 8/31/92	After 8/31/92
For participant	\$285	\$335
For accompanying person	\$205	\$255

Registration fee for participant includes admission to all sessions, Proceedings, and meals. For accompanying persons, Proceedings are not included. Participants from the former USSR may pay fee and accommodation in Russian rubles. The fee amount will be announced at the Symposium beginning according to the current state of Russian currency.

Cancellations

If conference registration is cancelled prior to September 15, 1992 your fee and accommodation payment less \$30 for administrative cost will be refunded.

Information

Requests for information should be addressed to the Symposium Chair:

Witali L. Dumit-Barkowsky
 Director
 A.B. Rogozin Research Institute for Neurocybernetics
 194/1 Stachka Ave 344104 Rostov-on-Don
 Russia
 Tel. (863 2) 280588, (863 2) 226836.
 Fax (863 2) 226836, Telex 123228 TEMR

Symposium Registration

1992 RNNS/IEEE Symposium on Neuroinformatics Neurocomputers, October 7-10, 1992, Rostov-on-Don, Russia (This form may be duplicated for additional registrations)

(City) _____
 Last Name _____
 First Name _____
 Affiliation _____
 Address _____
 City/State _____
 Zip/Country _____
 Tel () _____
 Fax () _____
 Telex _____
 Arrival (to Moscow) Date _____ Flight _____
 Arrival (to Rostov) Date _____ Flight _____
 Departure (from Rostov) Date _____ Flight _____
 Departure (from Moscow) Date _____ Flight _____

Symposium fees

	Up to 8/31/92	After 8/31/92
Participant	\$285	\$335
Accompanying person	\$205	\$255

Please indicate preferred accommodation

de luxe	<input type="checkbox"/> \$120
double for 1	<input type="checkbox"/> \$80
single	<input type="checkbox"/> \$65
double for 2	<input type="checkbox"/> \$40

Please mail registration form to the Symposium Secretary:
 Natalia A. Shevtsova
 Research Institute for Neuroinformatics
 194/1 Stachka Ave 344104 Rostov-on-Don
 Russia
 Tel. (863 2) 280744, (863 2) 226836, Fax (863 2) 244311
 Telex 123228 TEMR

Please make check payable in US dollars to 1992 RNNS/IEEE Symposium on Neuroinformatics and mail to:
 1992 RNNS/IEEE Symposium Neuroinformatics
 C/O Dmitry Kaplan
 3819 165th Place SE
 Bellevue WA 98008 - 5859
 USA

deadline: 31, 1992

Part I: INCOME

REGISTRATION FEES

MEMBERS

	Qty.	Fee	Budget
Registered before 11/2/92	100	\$325.00	\$32,500.00
Registered before 1/4/93	100	\$375.00	\$37,500.00
Registered at Conference	200	\$425.00	\$85,000.00

NONMEMBERS

Registered before 11/2/92	50	\$425.00	\$21,250.00
Registered before 1/4/93	25	\$475.00	\$11,875.00
Registered at Conference	25	\$525.00	\$13,125.00

STUDENTS

Registered before 11/2/92	50	\$75.00	\$3,750.00
Registered before 1/4/93	25	\$90.00	\$2,250.00
Registered at Conference	25	\$100.00	\$2,500.00

TOTAL REGISTRATION

600 **Total** **\$209,750.00**

CONFERENCE SALES

To members	30	\$50.00	\$1,500.00
To non-members	30	\$75.00	\$2,250.00
To IEEE Headquarters	450	\$30.00	\$13,500.00

TOTAL CONF. SALES

510 **Total** **\$17,250.00**

EXHIBITS

Booths/Publishers	5	\$850.00	\$4,250.00
Booths/All others	30	\$1,250.00	\$37,500.00

Total **\$41,750.00**

SOCIAL FUNCTIONS

Optional Tours (1)

TOTAL SOCIAL FUNCTIONS

\$0.00

ALL OTHER

Tutorial, one only	60	\$275.00	\$16,500.00
Tutorial	210	\$375.00	\$78,750.00

TOTAL OTHER INCOME

\$95,250.00

SEED MONEY ADVANCE

\$40,000.00

TOTAL INCOME:

\$404,000.00

Part II: EXPENSES

PROMOTION:

Brochure printing			\$22,000.00
Program/prod and printing			\$5,500.00
Mailing lists and labels			\$5,500.00
Postage			\$25,000.00
Mailing house			\$7,000.00
Advertising			\$16,500.00
Conference Posters			\$5,000.00
Other/Souvenir Items			\$8,500.00
TOTAL PROMOTION			\$95,000.00 \$55,000

CONF. PUBLICATION

Proceedings Printing (2)	1300	\$23.00	\$29,900.00
Comm. w./auth./sess. chairs			\$3,000.00
Shipping(Conference/IEEE)			\$1,100.00

TOTAL PUBLICATIONS \$34,000.00

EXHIBITS

Signage			\$1,650.00
Prospectus and Contract			\$1,100.00
Furniture			\$3,000.00
Comm. w. Exhibitors			\$1,100.00

TOTAL EXHIBITS \$6,850.00

SOCIAL FUNCTIONS

Optional Tours (1)			
Org. Committee Breakfast			\$1,500.00
Coffee Breaks/Tutorials			\$3,500.00
Coffee Breaks/Committee			\$1,600.00
Coffee Breaks/Conference			\$32,000.00
Opening Reception			\$8,300.00
Reception			\$23,500.00

TOTAL SOC. FCTN. EXP. \$70,400.00

ADMINISTRATION

Insurance and bonding			\$100.00
Security and guard service			\$8,000.00
Audio-video rental and op.			\$7,500.00

DYNAMIC BUDGET

Mgt. Fee (Sliding Scale)	\$22,480.00
Office Equipment Rental	\$2,000.00
Pr.forms tickets, stat., etc.	\$1,400.00
Signs, badges, etc.	\$3,000.00
Telephone, FAX, Copying	\$2,500.00
Regist. help / Bookkeeping	\$11,000.00
Registration supplies	\$800.00
Contingency Fee Provision	\$10,000.00
Prog. Committee Travel	\$12,000.00
Chairman's Discr. Budget	\$15,000.00
TOTAL ADMINISTRATION	\$95,780.00
<u>ALL OTHER</u>	
Tutorials/Signage	\$1,650.00
Tutorials/Notebooks (2)	\$7,300.00
Tutorials/Audiovisual	\$1,500.00
Tutorials/Honor / Expenses	\$11,000.00
Invited Speakers Expenses	\$10,000.00
Audit	\$5,000.00
Voluntary Help Expenses	\$5,000.00
TOTAL OTHER EXPENSES	\$41,450.00
<u>TOTAL EXPENSES</u>	\$343,480.00
<u>LOAN REPAYMENT</u>	\$40,000.00
<u>TOTAL OUTLAYS</u>	\$383,480.00
<u>SURPLUS (LOSS)</u>	\$20,520.00

Part III: SUMMARY

INCOME

6. Registration Fees	\$209,750.00
7. Conf. Pub. Sales	\$17,250.00
8. Exhibits	\$41,750.00
9. Social Functions	\$0.00
10. All other conf. receipts	\$95,250.00
11. Total conference income	\$364,000.00
12. Advance loans	\$40,000.00
13. Total receipts	\$404,000.00

EXPENSE

14. Promotion	\$95,000.00
15. Conference Publications	\$34,000.00
16. Exhibits	\$6,850.00
17. Social functions	\$70,400.00
18. Administration	\$95,780.00
19. All other conf. expenses	\$41,450.00
20. Total Conference Expenses	\$343,480.00
21. Loan Repayments	\$40,000.00
22. Total outlays	\$383,480.00
23. Total receipts	\$404,000.00
24. Total outlays	\$383,480.00
<u>25. SURPLUS(LOSS)</u>	\$20,520.00

NOTES

- (1) Nonbudget item (To be offered separately)
- (2) IEEE Press Estimate (Ann Burgmeier)

Proposal for the First Annual IEEE Conference of Virtual Reality Technology

Seattle, WA., September 1993

Virtual Reality Annual International
Symposium

VRAIS-93

submitted by

Professor Thomas Furness, General Chair
and
Dr. Thomas Caudell, Program Chair

IEEE CONFERENCE ON VIRTUAL REALITY TECHNOLOGY

PURPOSE

While computing capacities and speeds have increased remarkably, our ability to communicate with these information engines is still limited by inadequate interfaces between the human and the computer. This conference will explore advanced concepts and technologies for interfacing humans to complex machines, with a focus on virtual interfaces and their potential impact on the way we think about computers and the way we think with them. Papers will cover virtual interface design principles from psychological and technological perspectives. Hardware, software and mindware aspects of virtual interfaces will be explored and applications postulated and reviewed in the fields of medicine, education, design, interface to complex systems and entertainment.

ATTENDANCE

As this is a new and exciting area of human computer interaction, we anticipate a large attendance by curiosity seekers as well as students, faculty and industrial investigators.

TOPICS TO BE ADDRESSED IN CONFERENCE

1.0 OVERVIEW

- Definitions
- General description of virtual interfaces
- Attributes of virtual interfaces
- Advantages/disadvantages of virtual interfaces
- overview of design considerations

2.0 BACKGROUND

- Historical perspective
- Interface Considerations
 - concepts of info transfer

3.0 PSYCHOLOGY OF INTERFACES

- sensory considerations
- perceptual considerations
- cognitive considerations
- psychomotor considerations
- psychometrics
- developmental psychology and its impact on interface

4.0 VIRTUAL INTERFACE CONCEPTS

- concept of virtual space/virtual reality
- virtual interface modalities
 - visual
 - aural
 - tactile

5.0 CREATING THE VIRTUAL MEDIUM (hardware technologies)

- input

- output
- support architectures
- 6.0 CREATING THE VIRTUAL MESSAGE (mindware technologies)
 - the concept of "place"
 - interaction
 - navigation
- 7.0 MEASURING VIRTUAL SPACE
- 8.0 INTERFACE APPLICATIONS
 - understanding
 - creating
 - conveying
 - entertaining
- 9.0 SPECIAL APPLICATIONS
 - education
 - medical
 - design
 - televirtuality
 - learning disability
 - physical disability
- 10.0 HYPOTHETICAL INTERFACE DESIGNS/SCENARIOS
- 11.0 FUTURE RESEARCH DIRECTIONS
- 12.0 SOCIAL AND ETHICAL IMPLICATIONS

CONFERENCE CHAIRMAN

Dr. Thomas A. Furness
Director, Human Interface Technology Laboratory (FJ-15)
Professor, Industrial Engineering
University of Washington
Seattle, WA 98115

(206) 543-5075

tfurness@max.u.washington.edu

BIOGRAPHICAL SKETCH

Dr. Thomas A. Furness is a pioneer in the development of interfaces between humans and complex machines. He has been a crusader for over the past 24 years for building military cockpits which take into account the perceptual organization of the human. Most of his work has centered on the concept of virtual interface technologies which provide a circumambience of three dimensional spatial information to the human using the visual, auditory and tactile sensory modalities.

Dr. Furness is a Professor of Industrial Engineering at the University of Washington in Seattle and the founding director of the Human Interface Technology Laboratory at the Washington Technology Center. He received the B.S. in Electrical Engineering from Duke University and Ph.D. in Engineering and Applied Science from the University of Southampton, England.

Prior to joining the University in September 1989, Dr. Furness served as the Chief of the Visual Display Systems Branch, Human Engineering Division of the Armstrong Aerospace Medical Research Laboratory (USAF), Wright-Patterson AFB, OH. While in this position, Dr. Furness developed and evaluated visually-coupled systems and virtual interface concepts to improve the communication of information and control functions between the pilot and advanced cockpits. In 1986 he organized the Super Cockpit program for the Air Force and served as the program director until leaving for the University of Washington. Dr. Furness has received the Air Force Systems Command Scientific Achievement Award and the Air Force Meritorious Civilian Service Award.

Dr. Furness has lectured widely and written numerous technical articles associated with human interaction with complex machines and the use of virtual interfaces. He has made a number of television appearances including NOVA and CBS, BBC, CNN, ABC, NBC science news programs. He is a member of the Human Factors Society, Association of Computing Machinery, Institute of Electrical and Electronic Engineers and the Society for Information Display. Dr. Furness is co-editor with Dr. Thomas Sheridan at MIT of a new journal titled: PRESENCE: The International Journal of Teleoperators and Virtual Environments to be published by the MIT press beginning in 1992.

Dr. Furness's current work involves the comprehensive development of affordable virtual interface technologies for industry and consumers with applications in medical imaging, virtual prototyping, prostheses for the handicapped, virtual classrooms and televirtuality.

BIOGRAPHICAL SKETCH

Dr. Thomas A. Furness III

Dr. Thomas A. Furness is a pioneer in the development of interfaces between humans and complex machines. He has been a crusader for over the past 24 years for building military cockpits which take into account the perceptual organization of the human. Most of his work has centered on the concept of virtual interface technologies which provide a circumambience of three dimensional spatial information to the human using the visual, auditory and tactile sensory modalities.

Dr. Furness is a Professor of Industrial Engineering at the University of Washington in Seattle and the founding director of the Human Interface Technology Laboratory at the Washington Technology Center. He received the B.S. in Electrical Engineering from Duke University and Ph.D. in Engineering and Applied Science from the University of Southampton, England.

Prior to joining the University in September 1989, Dr. Furness served as the Chief of the Visual Display Systems Branch, Human Engineering Division of the Armstrong Aerospace Medical Research Laboratory (USAF), Wright-Patterson AFB, OH. While in this position, Dr. Furness developed and evaluated visually-coupled systems and virtual interface concepts to improve the communication of information and control functions between the pilot and advanced cockpits. In 1986 he organized the Super Cockpit program for the Air Force and served as the program director until leaving for the University of Washington. Dr. Furness has received the Air Force Systems Command Scientific Achievement Award and the Air Force Meritorious Civilian Service Award.

Dr. Furness has lectured widely and written numerous technical articles associated with human interaction with complex machines and the use of virtual interfaces. He has made a number of television appearances including NOVA and CBS, BBC, CNN, ABC, NBC science news programs. He is a member of the Human Factors Society, Association of Computing Machinery, Institute of Electrical and Electronic Engineers and the Society for Information Display. Dr. Furness is co-editor with Dr. Thomas Sheridan at MIT of a new journal titled:

PRESENCE: The International Journal of Teleoperators and Virtual Environments to be published by the MIT press beginning in 1992.

Dr. Furness's current work involves the comprehensive development of affordable virtual interface technologies for industry and consumers with applications in medical imaging, virtual prototyping, prostheses for the handicapped, virtual classrooms and televirtuality.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50



STATE OF WASHINGTON
OFFICE OF THE GOVERNOR

OLYMPIA
98504-0413

BOOTH GARDNER
GOVERNOR

February 21, 1992

Mr. Thomas P Caudell
Senior Principal Scientist
Boeing Computer Services
Boeing Building, #33-07
2670 - 106th Avenue, SE
Bellevue, WA 98008

Dear Mr. Caudell:

On behalf of the people of the state of Washington, it is my pleasure as Governor to invite you and the Institute of Electrical and Electronic Engineers to make Seattle your Virtual Reality Conference site.

Recently rated the nation's top vacation destination by Rand McNally, we're confident Seattle's world-class facilities will soon make Seattle the nation's favorite convention city as well.

From the Space Needle and the Public Market to the International District, Pioneer Square, Seattle's spectacular waterfront and the Puget Sound ferries, your delegates will find a colorful and exciting city offering something for everyone in its wide variety of entertainment and recreation opportunities.

Washingtonians will be honored to welcome the Institute of Electrical and Electronic Engineers to Seattle and look forward with pleasure to sharing the beauty and excitement of our area with your members. Seattle and the State of Washington are committed to making your convention a memorable and successful event.

Sincerely,

Booth Gardner
Governor

Office of the Mayor
City of Seattle

Norman B. Rice, Mayor



February 21, 1992

Mr. Thomas P Caudell
Senior Principal Scientist
Boeing Computer Services
Boeing Building, #33-07
2670 - 106th Avenue, SE
Bellevue, WA 98008

Dear Mr. Caudell:

On behalf of the City of Seattle, in conjunction with our hotel community, I would like to take this opportunity to officially invite the Institute of Electrical and Electronic Engineers to give definite approval of our city as the site for their upcoming Virtual Reality Conference.

Seattle is renowned for its spectacular physical setting, its picturesque neighborhoods, and its warm and friendly people. Our city also features a number of first class hotels, excellent restaurants with international cuisine to delight any palate, and an exciting array of retail outlets.

The U.S. Department of Commerce has called Seattle the #1 recreational city in the country, so the delegates of the Institute of Electrical and Electronic Engineers will find ample opportunity for sightseeing and recreational activities in the city. The surrounding region offers plenty of options for post-conference travel, whether to Mount St. Helens, Washington's scenic coastline, our state's many parks and recreation areas, or even Canada.

As Mayor, let me officially invite you to our city. Seattle would be honored to host the organization's Virtual Reality Conference.

Sincerely,

Norman B. Rice

46

INTERNATIONAL CONFERENCE ON VIRTUAL REALITY TECHNOLOGY
Virtual Reality Annual International Symposium (VRAIS), Proposed Dates: Sept 20-24, 1993

CONFERENCE ORGANIZING CHAIRS
(Note, this is a wish list - * marks confirmed members)

Honorary Meeting Chair:

Prof. Ivan Sutherland

General Meeting Chair:

Prof. Thomas Furness*
Human Interface Technology Laboratory
Washington Technology Center
and
Dept. of Industrial Engineering
University of Washington
Seattle, WA

Publications Chair:

Prof. Robert Marks II*
Dept. of Electrical Engineering
University of Washington
Seattle, WA.
marks@u.washington.edu

Finance Chair:

Dr. Dmitry Kaplan
Quantum Corp.
Seattle, WA.

Publicity Chair:

Dr. Michael Naimark
Michael Naimark Associates
San Fransisco, CA

Exhibits Chair:

Dr. Christofer Esposito*
Boeing Computer Services
MS 7L-22
P.O. Box 24346
Seattle, WA 98124-0346
chrise@bcsaic.boeing.com

Local Arrangements Chair:

Prof. Blake Hannaford
Dept. of Electrical Engineering
University of Washington
Seattle, WA.

International Liaison Chairs:

Prof. Masahiro Kawahata
Japan

Prof. Robert Stone
England

Industrial Panel Chair:

Dr. Jaron Lanier
VPL Research Inc.
656 Bair Island Rd.
Third Floor
Redwood City, CA 94063

Tutorials Chair:

Dr. Warren Robinett
Univ. of North Carolina,
Dept. of Computer Sciences
204 Sitterson Hall
Chapel Hill, NC 27599-3175

Technical Program Committee:

Dr. Thomas P. Caudell, Chair*
Boeing Computer Services
MS 7L-22
P.O. Box 24346
Seattle, WA 98124-0346
tpc@espresso.boeing.com

Dr. Warren Robinett
Univ. of North Carolina,
Dept. of Computer Sciences
204 Sitterson Hall
Chapel Hill, NC 27599-3175

Prof. Fred Brooks
Univ. of North Carolina,
Dept. of Computer Sciences
204 Sitterson Hall
Chapel Hill, NC 27599-3175

Prof. Fuchs
Univ. of North Carolina,
Dept. of Computer Sciences
204 Sitterson Hall
Chapel Hill, NC 27599-3175

Prof. David Zeltzer
Media Laboratory
Mass. Inst. of Tech.
Boston, MA

Dr. Myron Krueger
Artificial Reality
P.O. Box 786
Vernon, CT 06066

Dr. William Bricken
Human Interface Technology Laboratory
Washington Technology Center
Seattle, WA

Dr. William Kaiser
Space Microelectronics Device Technology Section
Jet Propulsion Laboratory
California Institute of Technology
4800 Oak Grove Drive

Pasadena, CA 91109-8099

Mr. Paul K. Manhart
Space Optics Section
Jet Propulsion Laboratory
California Institute of Technology
4800 Oak Grove Drive
Pasadena, CA 91109-8099
pmanhart@nasamail.nasa.gov

Prof. Dana Anderson
Campus Box 440
Dept. of Physics
University of Colorado
Boulder, CO 80309-0440
dana@jila.bitnet

Dr. Howard Davidson
Sun Microsystems Laboratories
MS MTV29-225
2550 Garcia Ave
Mountain View, CA 94043-1100

Dr. Michael McGreavy
MS 262-2
NASA Ames Research Center
Moffet Field, CA 94035-1000

Dr. Scott Fisher

Dr. Woodrow Barfield

Dr. Steve Elias

Dr. Steve Tice
Simgraphics Engineering
Pasadena, CA

Dr. Steve Bryce
NASA Ames Research Center
MS T045-1
Moffet Field, CA 94035-1000

Dr. David Mizell*
Boeing Computer Services
MS 7L-22
P.O. Box 24346
Seattle, WA 98124-0346
mizell@espresso.boeing.com

Dr. Christofer Esposito*
Boeing Computer Services
MS 7L-22
P.O. Box 24346
Seattle, WA 98124-0346
chrise@bcsaic.boeing.com

Dr. Dean Kocian
Wright Patterson Air Force Base
Dayton, OH

Prof. Randy Pauch
Univ. of Virginia

Prof. Dunn-Roberts
Univ. of Central Florida

Prof. Green
Banf, Canada

Prof. Michael Benedikt
Univ. of Texas at Austin
Austin, Texas

Prof. Mikataka Hirose
Univ. of Tokyo

Dr. Daniel Ling
IBM Thomas J. Watson Research Center
P.O. Box 704
Yorktown Heights, NY 10598
dtling@ibm.com

Prof. Carl Sherrick
Princeton

Prof. Gens Blanert
Univ. of Ruhr
Bohem, Germany



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART I - INCOME

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All income items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference International Conference on Virtual Reality Technology
 Dates of Conference September 20 - 24, 1993

INCOME					
REGISTRATION FEES	Quantity	Fee	Budget	Interim Report	Final Report
In Advance - Members	_____ x _____	=	\$ _____	\$ _____	\$ _____
In Advance - Nonmembers	_____ x _____	=	_____	_____	_____
In Advance - Reduced Rate	_____ x _____	=	_____	_____	_____
At Conference - Members	_____ x _____	=	_____	_____	_____
At Conference - Nonmembers	_____ x _____	=	_____	_____	_____
At Conference - Reduced Rate	_____ x _____	=	_____	_____	_____
Total Registrants		Total	\$ _____	\$ _____	\$ _____
CONFERENCE PUBLICATION SALES (SEE ATTACHED ITEMIZATION)					
To Members	_____ x _____	=	\$ _____	\$ _____	\$ _____
To Nonmembers	_____ x _____	=	_____	_____	_____
To IEEE Hq.	_____ x _____	=	_____	_____	_____
Total Copies		Total	\$ _____	\$ _____	\$ _____
EXHIBITS					
Tables	_____ x _____	=	\$ _____	\$ _____	\$ _____
Booths	_____ x _____	=	_____	_____	_____
Booths	_____ x _____	=	_____	_____	_____
	_____ x _____	=	_____	_____	_____
		Total	\$ _____	\$ _____	\$ _____
SOCIAL FUNCTIONS (Itemize by event on separate sheets.)			Total	\$ _____	\$ _____
ALL OTHER (List here or attach details.)					
_____			\$ _____	\$ _____	\$ _____
_____			_____	_____	_____
_____			_____	_____	_____
Total			\$ _____	\$ _____	\$ _____
TOTAL INCOME			\$ _____	\$ _____	\$ _____

NOTE: BE SURE TO ATTACH THIS FORM TO "PART II: EXPENSE" AND MAIL BOTH FORMS TOGETHER.

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

IEEE Financial Report- Part I: Income
 INTERNATIONAL CONFERENCE ON VIRTUAL REALITY TECHNOLOGY
 Virtual Reality Annual International Symposium (VRAIS), Proposed Dates: Sept 20-24, 1993

	Quant.	Fee	Budget
REGISTRATION FEES			
IEEE Members			
before 3/15/93	100	250.00	25,000.00
before 6/15/93	100	300.00	30,000.00
at conference	200	375.00	75,000.00
Non-Members			
before 3/15/93	75	300.00	22,500.00
before 6/15/93	75	350.00	26,250.00
at conference	150	425.00	63,750.00
Students			
before 3/15/93	50	80.00	4,000.00
before 6/15/93	50	95.00	4,750.00
at conference	100	110.00	11,000.00
Total Registrants	900		Total 262,250.00
CONFERENCE PUBLICATION SALES			
To IEEE Members	12	75.00	900.00
To Non-Members	12	125.00	1,500.00
To IEEE Headquarters	450	25.00	11,250.00
Total Copies	500		Total 13,650.00
EXHIBITS			
Booths/Publishers	5	600.00	3,000.00
Booths/All Other	25	1,000.00	25,000.00
Total	30		Total 28,000.00
SOCIAL FUNCTIONS			
.....			Total 0.00
ALL OTHER			
Tutorial, one	100	200.00	20,000.00
Tutorial, two	100	300.00	30,000.00
Tutorial, three or more	100	390.00	39,000.00
Seed Money Advance	1		45,000.00
			Total 134,000.00
TOTAL INCOME			437,900.00



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART II: EXPENSE

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All expense items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference International Conference on Virtual Reality Technology Dates of Conference September 20 - 24, 1993

PROMOTION		Budget	Interim Report	Final Report
Printing / Call for Papers	(SEE ATTACHED ITEMIZATION)	\$ _____	\$ _____	\$ _____
Printing / Advance Program		_____	_____	_____
Printing / Final Program		_____	_____	_____
Mailing Lists / Labels		_____	_____	_____
Postage		_____	_____	_____
Other _____		_____	_____	_____
Total		\$ _____	\$ _____	\$ _____
CONFERENCE PUBLICATION				
Conference Record / Digest Printing		\$ _____	\$ _____	\$ _____
Author Kits Printing		_____	_____	_____
Shipping to Site and IEEE Hq.		_____	_____	_____
Total		\$ _____	\$ _____	\$ _____
EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)				
Total		\$ _____	\$ _____	\$ _____
SOCIAL FUNCTIONS (Itemize event on separate sheets.)				
Total		\$ _____	\$ _____	\$ _____
ADMINISTRATION				
Insurance & Bonding		\$ _____	\$ _____	\$ _____
Security & Guard Service		_____	_____	_____
Projection Equip. Rent & Operator		_____	_____	_____
Management, Secretarial Services		_____	_____	_____
Office Equip. Rental		_____	_____	_____
Printing forms, Tickets, Stationery, Etc.		_____	_____	_____
Posters, Signs, Badges, Etc.		_____	_____	_____
Telephone		_____	_____	_____
Transportation		_____	_____	_____
Gratuities, Etc. (Attach details)		_____	\$ _____	\$ _____
Total		\$ _____	\$ _____	\$ _____
ALL OTHER				
Committee Expenses		\$ _____	\$ _____	\$ _____
Other (Attach Details)		_____	_____	_____
Total		\$ _____	\$ _____	\$ _____
TOTAL EXPENSES		\$ _____	\$ _____	\$ _____

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: US Dollars

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars - at the current conversion rate - when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name Thomas A. Furness Tel. No. (206) 543-5075

Address Human Interface Technology Lab., U of W, FJ-15, Seattle, WA 98195

Conference Position General Chairman

SIGNATURE _____ Date _____

NOTE: BE SURE TO ATTACH THIS FORM TO "PART I: INCOME" AND MAIL BOTH FORMS TOGETHER

IEEE Financial Report- Part II: Expenses

INTERNATIONAL CONFERENCE ON VIRTUAL REALITY TECHNOLOGY
 Virtual Reality Annual International Symposium (VRAIS) , Proposed Dates: Sept 20-24, 1993

	Budget
PROMOTION	
Flyer prod & printing	20,000.00
Program prod & printing	7,000.00
Mailing lists and labels	7,000.00
Postage	28,000.00
Mailing house	7,000.00
Advertising	20,000.00
Other / Souvenir Items	7,000.00
Total Promotion	96,000.00
CONFERENCE PUBLICATION	
Conf. proc. printing	67,500.00
CD ROM Pubs.	15,000.00
Communication w/ authors and sess chairs	3,000.00
Total conf publication	82,500.00
EXHIBITS	
Signage	1,500.00
Brochure	1,000.00
Furniture	3,000.00
Equipment Rental	10,000.00
Communication w/ Exhibitors	1,000.00
Total exhibits	16,500.00
SOCIAL FUNCTIONS	
Dinner, recpt, breaks	62,000.00
ADMINISTRATION	
Insurance & bonding	100.00
Security and guard service	3,000.00
Audio-video rental and operation	13,000.00
Management fee	30,000.00
Office equipment rental	2,000.00
Forms, tickets, stationary	1,300.00
Posters, signs, badges	2,000.00
Telephone, FAX, copying	1,200.00
Registration clerical help	12,000.00
Registration supplies	600.00
Total Administration	65,200.00
ALL OTHER	
Tutorials/Signage	2,000.00
Tutorials/Notebooks	3,400.00
Tutorials/Audio-Visual	3,000.00
Tutorials/Honoraria	18,000.00
Audit	4,000.00
Invited Speakers /Honoraria	9,000.00
Committee Exp.	5,000.00
Chairman's Disc. Fund	10,000.00
Total Other	54,400.00

TOTAL CONFERENCE EXPENSES	376,600.00
LOAN REPAYMENT	45,000.00
TOTAL OUTLAYS	421,600.00



IEEE TECHNICAL ACTIVITIES
SUMMARY FINANCIAL REPORT FOR IEEE SPONSORED OR COSPONSORED CONFERENCES

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference International Conference on Virtual Reality Technology
 2. Dates of Conference September 20 - 24, 1993
 3. Location of Conference (full name and address) Seattle Sheraton, 1400 6th Ave., Seattle 98101
Washington State Convention & Trade Center, 800 Convention Pl., Seattle 98101

TYPE OF REPORT / CURRENCY USED

4. Indicate type of report by checking one box:
 Budget Interim Report Final Report

5. All income and expense figures below must be in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.
 Local currency: US Dollars Conversion rate: _____ Date of conversion rate: _____

INCOME (See Attached)

	Budget	Interim Report	Final Report
6. Registration Fees	\$ _____	\$ _____	\$ _____
7. Conference Publication Sales	_____	_____	_____
8. Exhibits	_____	_____	_____
9. Social Functions	_____	_____	_____
10. All Other Conference Receipts	_____	_____	_____
11. Total Conference Income	_____	_____	_____
12. Advance Loans	_____	_____	_____
13. Total Receipts	\$ _____	\$ _____	\$ _____

EXPENSE

	Budget	Interim Report	Final Report
14. Promotion	\$ _____	\$ _____	\$ _____
15. Conference Publications	_____	_____	_____
16. Exhibits	_____	_____	_____
17. Social Functions	_____	_____	_____
18. Administration	_____	_____	_____
19. All Other Conference Expenses	_____	_____	_____
20. Total Conference Expense	_____	_____	_____
21. Loan Repayments	_____	_____	_____
22. Total Outlays	\$ _____	\$ _____	\$ _____

SURPLUS / (LOSS)

23. Total Receipts (13) \$ _____ 24. Total Outlays (22) \$ _____
 25. Surplus (Loss) - (Item 23 less Item 24) \$ _____

POST CONFERENCE DISTRIBUTION

Surplus (Loss) in Item 25 to be distributed as follows:

Cosponsor Entity	% Share	\$ Distributed
a. <u>IEEE Neural Nets Council</u>	100	_____
b. _____	_____	_____
c. _____	_____	_____
d. _____	_____	_____
Surplus (Loss) \$		_____

CONFERENCE FINANCIAL INSTITUTION

Name of Bank _____
 Address _____
 Conference Account Title _____ Account No. _____
 Have you requested IEEE Conference Insurance? Yes No

SUBMITTED BY:

Name Thomas A. Furness Tel. No. (206) 543-5075
 Address Human Interface Technology Lab., U OF W, FJ-15, Seattle, WA 98195
 Conference Position General Chairman

SIGNATURE

_____ SCe Date _____

IEEE Financial Report- Part III: Summary

INTERNATIONAL CONFERENCE ON VIRTUAL REALITY TECHNOLOGY
Virtual Reality Annual International Symposium (VRAIS), Proposed Dates: Sept 20-24, 1993

INCOME

Registration Fees	262,250.00
Con. Pub. Sales	13,650.00
Exhibits	28,000.00
Social Funcs	0.00
All Other	89,000.00
Total Conf. Income	392,900.00
Advance Seed Money	45,000.00
Total Receipts	437,900.00

EXPENSE

Promotion	96,000.00
Conf. Pub.	82,500.00
Exhibits	16,500.00
Social Funcs	62,000.00
Administration	65,200.00
All Other	54,400.00
Total Conf. Expenses	376,600.00
Loan Repayment	45,000.00
Total Outlays	421,600.00
Total Receipts	437,900.00
Total Outlays	421,600.00

SURPLUS (Loss)

+16,300.00

IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE INFORMATION SCHEDULE

See reverse side for instructions on how to complete this form



CONFERENCE

1. Full title of Conference International Conference on Virtual Reality
2. Dates of Conference September 20 - 24, 1993
3. Location of Conference (full name and address) Seattle Sheraton, 1400 6th Ave, Seattle 98101
Washington State Convention + Trade Center, 800 Convention Pl, Seattle 98101
4. Estimated Attendance 900
5. Exhibits Yes No
6. Will there be a Conference publication? Yes No If yes, check one box below.
 Conference Record Other (explain)

IEEE ENTITY INVOLVEMENT

7. If IEEE entity involvement is either Sponsorship or Cosponsorship as defined on reverse side, enter below the name of all involved IEEE and non-IEEE entities and their percent of financial share.

Entity	<u>IEEE Neural Nets Council</u>	%	<u>100</u>
Entity		%	
Entity		%	
Entity		%	

8. If IEEE entity involvement is either Participating or Cooperating as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and indicate the involvement of each

Entity	Type of Involvement	
	Participating	Cooperating
<u>(SEE ATTACHED)</u>	<input type="checkbox"/>	<input type="checkbox"/>
Entity	<input type="checkbox"/>	<input type="checkbox"/>
Entity	<input type="checkbox"/>	<input type="checkbox"/>
Entity	<input type="checkbox"/>	<input type="checkbox"/>

9. Has the Section within whose geographical boundaries the Conference is being held been notified? Yes No
If yes, who was contacted?

10. Has IEEE Conference Insurance form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telephone number.

CONFERENCE CHAIRMAN Thomas A. Furness Tel. No. (206) 543-5075
Address Human Interface Technology Lab., FJ-15, University of Washington, Seattle, WA 98195

INFORMATION CONTACT NAOMI FELDMAN Tel. No. (619) 453-6222
Address -MEETING MANAGEMENT- 5665 OBERLIN DR. SUITE 110 SAN DIEGO CA 92121

COMMITTEE MEMBERS
If available, please attach to this form a complete list of Conference Committee members, their titles, addresses and telephone numbers.

SUBMITTED BY:
Name Thomas A. Furness Tel. No. (206) 543-5075
Address Human Interface Technology Lab., U of W, FJ-15, Seattle, WA 98195
Conference Position General Chairman

SIGNATURE _____ Date _____

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

INTERNATIONAL CONFERENCE ON VIRTUAL REALITY TECHNOLOGY
Virtual Reality Annual International Symposium (VRAIS), Proposed Dates: Sept 20-24, 1993

Potential Participating Societies: (as of 23 Feb 1992, none have been contacted)

IEEE Computer Society
IEEE Systems, Man, and Cybernetics Society
IEEE Communications Society
IEEE Industrial Electronics Society
IEEE Control Society
IEEE Laser and Electro-Optical Society
IEEE Industrial Applications
Association of Computing Machinery SIG on Computer Graphics
International Neural Networks Society
IEEE Seattle Section

IJCNN'93-Nagoya Preliminary Budget (revised March 2, 1992)

	A	B	C	D	E	F	
1	Estimated Attendees	1,000	1,250	1,500	1,750	2,000	
2							
3	Conference Income	79,322	91,903	104,483	117,063	129,644	(x1000 Yen)
4							
5	Conference Expenses	78,950	91,775	101,650	114,575	124,450	(x1000 Yen)
6	<hr/>						
7	Net(income-expenses)	372	128	2,833	2,488	5,194	(x1000 Yen)
				↑			
				best estimation			

8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20

Responsibility: IEEE: 1/3
 INNS: 1/3
 Japanese Societies (JNNS, IEICE, SICE): 1/3
 Credit card acceptable: AMEX, Diners, MC, VISA.

IJCNN'93-Nagoya Preliminary Incomes (x1000 Yen) (Revised March 2, 1992)

	A	B	C	D	E	F	G
1	Registration fee		Member	Non-member	Student		
2	A: Before May 15, 1993		40	50	10		
3	B: Before July 31, 1993		45	55	12		
4	C: After July 31, 1993		55	65	15		
5	D: On-site		60	70	20		
6	Tutorial fee		Member	Non-member	Student		
	Before July 31, 1993						
7	A: Industrial						
8	one (Half day)		20	30			
9	two (Full day)		30	45			
10	B: University & Public Institute						
11	one (Half day)		7	10	5		
12	two (Full day)		10	15	7.5		
13	After July 31, 1993						
14	C: one (Half day)		40	50	20		
15	C: two (Full day)		60	80	30		
16	Industrial Exh. fee:	250 per booth					
17	Publisher Exh. fee:	150 per booth					
18							
19	Estimated attendees		1,000	1,250	1,500	1,750	2,000
20							
21	A-Member (10%)		4,000	5,000	6,000	7,000	8,000
22	A-Non-member (0%)		0	0	0	0	0
23	A-Student (10%)		1,000	1,250	1,500	1,750	2,000
24	B-Member (40%)		18,000	22,500	27,000	31,500	36,000
25	B-Non-member (5%)		2,750	3,438	4,125	4,813	5,500
26	B-Student (15%)		1,800	2,250	2,700	3,150	3,600
27	C-Member (5%)		2,750	3,437	4,125	4,812	5,500
28	C-Non-member (0%)		0	0	0	0	0
29	C-Student (0%)		0	0	0	0	0
30	D-Member (5%)		3,000	3,750	4,500	5,250	6,000
31	D-Non-member (5%)		3,500	4,375	5,250	6,125	7,000
32	D-Student (5%)		1,000	1,250	1,500	1,750	2,000
33	Total Registration Income		37,800	47,250	56,700	66,150	75,600
34	Banquet (7 x attendees x 0.5)		3,500	4,375	5,250	6,125	7,000

IJCNN'93-Nagoya Preliminary Incomes (x1000 Yen) Continued

	A	B	C	D	E	F	G
35 Conference attendees			1,000	1,250	1,500	1,750	2,000
36 Tutorials							
37 Attendees = Conference attendees x 0.3							
38			300	375	450	525	600
39 A-Member one (20%)			1,200	1,500	1,800	2,100	2,400
40 A-Member two (20%)			1,800	2,250	2,700	3,150	3,600
41 A-Non-member one (20%)			1,800	2,250	2,700	3,150	3,600
42 A-Non-member two (20%)			2,700	3,375	4,050	4,725	5,400
43 B-Member one (2%)			42	53	63	73	84
44 B-Member two (2%)			60	75	90	105	120
45 B-Non-member one (3%)			90	112	135	158	180
46 B-Non-member two (3%)			135	169	203	236	270
47 B-Student one (4%)			60	75	90	105	120
48 B-Student two (6%)			135	169	202	236	270
49 C-Member (0%)			0	0	0	0	0
50 C-Non-member (0%)			0	0	0	0	0
51 C-Student (0%)			0	0	0	0	0
52 Total Tutorial Income			8,022	10,028	12,033	14,038	16,044
53 Family excursion							
54 Attendees			100	125	150	175	200
55 Ticket Income (x10)			1,000	1,250	1,500	1,750	2,000
56 Exhibit Income (30 booths)			7,500	7,500	7,500	7,500	7,500
57 Publisher Exh. Income (10 booths)			1,500	1,500	1,500	1,500	1,500
58 Industrial Forum Income (5x1000)			5,000	5,000	5,000	5,000	5,000
59 Proceeding sales Income(10x1000p)			10,000	10,000	10,000	10,000	10,000
60 Tutorial books sales (10x500p)			5,000	5,000	5,000	5,000	5,000
61 Total Income			79,322	91,903	104,483	117,063	129,644

IJCNN'93-Nagoya Preliminary Expenses Budget (x1000 Yen) (Revised March 2, 1992)

	A	B	C	D	E	F	G
1	Estimated attendees		1,000	1,250	1,500	1,750	2,000
2							
3	Marketing/promotion						
4	Poster printing		1,000	1,000	1,000	1,000	1,000
5	Call for paper printing (1st, 2nd)		1,500	1,500	1,500	1,500	1,500
6	Two times mailing		2,500	3,000	3,500	4,000	4,500
7	Advertisements		2,000	2,000	2,000	2,000	2,000
8	Management/Mailing		500	500	500	500	500
9	Total Marketing		7,500	8,000	8,500	9,000	9,500
10							
11	Publications						
12	Review processing/ mailing						
13			2,000	2,500	3,000	3,500	4,000
14	Proceedings (4 x (1000p+attend))		8,000	9,000	10,000	11,000	12,000
15	Program and bag (1.3 x attend)		1,300	1,625	1,950	2,275	2,600
16	Management/Mailing		500	500	500	500	500
17	Total Publication		11,800	13,625	15,450	17,275	19,100
18							
19	Social functions						
20	Reception (5 x attendx0.6)		3,000	3,750	4,500	5,250	6,000
21	Coffee breaks (4 x attend)		4,000	5,000	6,000	7,000	8,000
22	Banquet (15 x attend x0.5)		7,500	9,375	11,250	13,125	15,000
23	Family program						
24	Attendees		100	125	150	175	200
25	Expenses (10 x attend)		1,000	1,250	1,500	1,750	2,000
26	Management/Mailing		500	500	500	500	500
27	Total Social		16,000	19,875	23,750	27,625	31,500
28							
29	Management						
30	Management						
31	Professional		7,000	8,000	9,000	10,000	11,000
32	Meeting expenses		5,000	5,000	5,000	5,000	5,000
33	Plenary speaker travel						
34	from America (300 x 3 speakers)		900	900	900	900	900
35	from Europe (500 x 2 speakers)		1,000	1,000	1,000	1,000	1,000
36	Travel support to excellent papers from students & developing countries		2,000	3,000	4,000	5,000	6,000
37	Insurance		300	300	350	350	400
38	Credit card fees		1,800	2,200	2,600	3,100	3,500
39	Total Management		18,000	20,400	22,850	25,350	27,800

IJCNN'93-Nagoya Preliminary Expenses Budget (x1000 Yen) Continued

	A	B	C	D	E	F	G
40	Conference Attendees		1,000	1,250	1,500	1,750	2,000
41							
42	Facilities/equipment						
43	Convention center rental		12,000	15,000	15,000	18,000	18,000
44	Audio/Visual		3,000	4,000	4,000	5,000	5,000
45	Total Facilities		15,000	19,000	19,000	23,000	23,000
46	Exhibitions						
47	Management		500	500	500	500	500
48	Exhibit marketing		1,000	1,000	1,000	1,000	1,000
49	Total Exhibitions		1,500	1,500	1,500	1,500	1,500
50	Tutorials						
51	Attendees		300	375	450	525	600
52	Speaker travel (Amer. 300 x 3)		900	900	900	900	900
53	Speaker travel (Euro. 500 x 3)		1,500	1,500	1,500	1,500	1,500
54	Domestic speaker travel (50 x 4)		200	200	200	200	200
55	Tutorial speaker fees (60 x 10)		600	600	600	600	600
56	Tutorial books etc.						
57	(2 x (attendees+500))		1,600	1,750	1,900	2,050	2,200
58	Coffee breaks (1 x attendees)		300	375	450	525	600
59	Management/mailing		500	500	500	500	500
60	Total tutorial		5,600	5,825	6,050	6,275	6,500
61							
62	Industrial Forum						
63	Speaker fees (60 x 10 speakers)		600	600	600	600	600
64	Management/Advertisement		300	300	300	300	300
65	Translation (500 x 2 persons)		1,000	1,000	1,000	1,000	1,000
66	Total Industrial Forum		1,900	1,900	1,900	1,900	1,900
67							
68	Technical Tour						
69	Management/Communication		200	200	200	200	200
70	Transportation		450	450	450	450	450
71	Total Technical Tour		650	650	650	650	650
72	Other Expenses		1,000	1,000	2,000	2,000	3,000
73	Total Conf. Expenses		78,950	91,775	101,650	114,575	124,450

From gref@AIC.NRL.Navy.Mil Fri Mar 6 12:31:50 1992
 Received: from sun0.aic.nrl.navy.mil by milton.u.washington.edu
 (5.65/UW-NDC Revision: 2.22) id AA22409; Fri, 6 Mar 92 12:30:40 -0800
 Received: from sun20.aic.nrl.navy.mil by Sun0.AIC.NRL.Navy.Mil (4.1/SMI-4.0)
 id AA26206; Fri, 6 Mar 92 15:28:22 EST
 Return-Path: <gref@aic.nrl.navy.mil>
 Received: by sun20.aic.nrl.navy.mil; Fri, 6 Mar 92 15:28:21 EST
 Date: Fri, 6 Mar 92 15:28:21 EST
 From: gref@AIC.NRL.Navy.Mil
 Message-Id: <9203062028.AA23005@sun20.aic.nrl.navy.mil>
 To: marks@milton.u.washington.edu
 Subject: Special Issue
 Cc: dejong@AIC.NRL.Navy.Mil, rce@rti.rti.org
 Status: RO

Bob,

I wanted to talk to you about the special issue of IEEE TNN on GAs. I'm sending this note in case we don't connect on the phone before you leave town.

Ken De Jong and I have been actively pursuing the formation of a GA-related journal since we last spoke. Here's the current status of things:

We now have a proposal that is ready to be sent to 1 or more publishers for the final round of serious negotiations.

We also have a sufficient list of people who not only support the proposal, but are also willing to serve in the various editorial/board roles to make the journal a success.

There appears to be more than enough interest to provide a solid base of readers and contributors.

The last remaining hurdle is the selection of a publisher. Unfortunately, we don't have consensus on this yet. There are a number of requirements that everyone seems to agree upon, as shown in the attached draft proposal. The main issue seems to be whether IEEE is an acceptable option. There are conflicting opinions in both the GA and ES communities on this. Many in the European community are concerned that IEEE is a US-dominated organization, and some in the scientific community feel that IEEE may not be the appropriate publisher for a journal with broad scientific interests. Russ Eberhart has offered to put us in touch with some of your European colleagues, who could possibly reverse some of these perceptions. We would like to pursue this approach, in order to gain a solid consensus.

We are currently forming a small committee to pursue final negotiations with publishers and to make the final decision. The final decision should be made within the next few weeks.

Still, at this time, I don't feel that I can commit to edit a special issue of IEEE TNN. If another publisher is selected for the journal, I will probably be involved in an editorial capacity for the new journal, which would probably make its debut in the same time frame as the planned special issue.

On the other hand, if we do proceed with IEEE, then I think we could still make the September 1993 publication date even if we publish the call in the July 1992 issue.

I look forward to getting your comments on the enclosed draft proposal. I hope that the GA community can resolve the final issues in short order.

Best regards,

John

===== DRAFT PROPOSAL =====

Title: Evolutionary Computation

Subtitle: Genetic Algorithms, Evolution Strategies, and
Evolutionary Programming.

Aim:

To provide an international forum for facilitating and enhancing the exchange of information among researchers involved in both the theoretical and practical aspects of computational systems of an evolutionary nature.

Motivation:

The rapid growth of interest in various forms of evolutionary computation has lead to a wide variety of activities distributed over a number of disciplines, conferences, and journals. There is a strong sense from this diversified community that a focal journal is needed to improve communication and dissemination of the research being generated by this community.

Scope:

The journal would publish both theoretical and practical developments of computational systems drawing their inspiration from nature, with particular emphasis on evolutionary models of computation such as genetic algorithms (GAs), evolutionary strategies (ESs), and other evolutionary programming (EP) techniques.

Representative topic areas include the following:

1. Mathematical foundations of evolutionary computation
2. Characterizations of appropriate problems
3. Parallel computation of evolutionary algorithms
4. Applications in science, engineering, economics, etc.
5. Implementation issues
6. Machine learning and classifier systems
7. Image processing and pattern recognition
8. Evolution of neural networks
9. Robotics and autonomous systems
10. Evolution of cooperative behavior
11. Artificial life based on evolutionary methods

Editorial Structure:

The journal's editorial structure would be as follows:

- an editorial board made up of representatives from the international research community and responsible for setting journal policy, journal format, selecting editors and new board members.
- an editor-in-chief selected by the board and responsible for the overall aspects of managing the paper solicitation/review/selection process as well as the primary point of contact with the journal publisher.
- three associate editors to support/facilitate the process of receiving/reviewing/selecting papers:

- Robert J. Marks II Library Archive
- one from North America
 - one from Europe
 - one from Asia

The following researchers have tentatively agreed to participate in the editorial structure on the journal.

Candidates for Editor-in-Chief:

Ken De Jong
John Grefenstette
Heinz Muehlenbein
Hans-Paul Schwefel

Associate editors:

Emile Aarts	Reinhard Maenner
Thomas Baeck	Worthy Martin
Rik Belew	Bernard Manderick
Lashon Booker	Zbigniew Michalewicz
Yuval Davidor	David Montana
Dave Davis	Heinz Muehlenbein
Larry Eshelman	Gregory Rawlins
Hugo de Garis	Rick Riolo
Ken De Jong	Dave Schaffer
Terrance Fogerty	Hans-Paul Schwefel
Stephanie Forrest	Stephen F. Smith
John Grefenstette	Gil Syswerda
John Holland	Michael Vose
Kiroaki Kitano	Darrell Whitley
Jean-Arcady Meyer	David Goldberg
Robert Smith	

Journal Features:

- initial publication frequency: 4 issues per year.
- initial page counts: ~ 100 pages per issue.
- contain both long and short papers.
- contain announcements of events of interest to the community, such as conferences, workshops, special issues, etc.

Publisher Requirements:

- low cost individual subscriptions (< \$50 per year).
- provide support to the editors in the form of \$, software, and/or people to help with the management of the paper flow.
- manage the entire subscription/billing process.
- provide low cost individual subscriptions.
- must be able to handle electronic submissions in at least Postscript and Latex forms.
- must defer decisions on editor selection, editorial policy, etc. to the editorial board.

SUMMARY OF ACTIONS
Technical Activities Board
April 4, 1992

The following actions were taken during the Technical Activities Board meeting held April 4, 1992 at the Northeast Atlanta Hilton, Norcross, Georgia.

1. To further improve the cost effectiveness of TAB Councils and Committees under the new TAB structure, approved a proposal that will reduce the number of Committees, reduce the size of Councils/Committees, increase Society/Council Presidents' participation and coordinate and structure Council/Committee meetings to minimize cost.
2. Approved the 1992 TAB Strategic and Operating Plan.
3. Since the TAB meeting at which Society/Council fees and publication prices would normally be approved is being held too early for the Societies/Councils to have their fees and rates available, approved assigning to the TAB Finance Committee the authority to endorse the 1993 Society/Council fees and publications prices for recommendation of approval by the IEEE Executive Committee.
4. Approved a new IEEE Transactions on Fuzzy Systems, to be published by the IEEE Neural Networks Council.
5. Approved a change in sponsorship of the Journal of Microelectromechanical Systems to include the IEEE Industrial Electronics Society as a sponsor of the Journal under the same conditions as the IEEE Robotics Society and IEEE Electron Devices Society.
6. Approved the IEEE Communications Magazine, IEEE Network and IEEE LTS: The Magazine of Lightwave Telecommunication Systems as General Interest publications at the rates of \$39, \$20 and \$15 respectively for 1993.
7. Approved a proposal for a new IEEE/ACM Transactions on Networking to be jointly published by the IEEE Communications Society, IEEE Computer Society and Association for Computing Machinery.
8. Approved a proposal for a new IEEE Transactions on Speech and Audio Processing to be published by the IEEE Signal Processing Society.
9. Approved the IEEE Control Systems Magazine as an Interdisciplinary publication at a subscription rate of \$7 for 1993.

TAB Summary of Actions
April 4, 1992
Page 2

10. Approved in principle the IEEE Transactions on Control Systems Technology, pending resolution on the issue of the Masthead conflicts and final approval by the TAB Periodicals Council and IEEE Publications Board.
11. Approved the IEEE Transactions on Control Systems Technology as an Interdisciplinary publication, pending approval of the Transactions by the TAB Periodicals Council and IEEE Publications Board.
12. Approved a proposal for a new IEEE Transactions on Microelectronic Systems subject to agreement by the proposers of a new name and final approval by the TAB Periodicals Council and IEEE Publications Board.
13. Approved a proposal for Regional TAB Visits with three visits to Regions 8, 9 and one Region in the United States/Canada and allocation of \$25,000 to cover program expenses in 1992. This program will replace the annual colloquium.
14. As requested by the RAB/TAB Transnational Committee, endorsed a proposal for recommendation of approval by the IEEE Executive Committee that the TAB Non-U.S. Offices Ad Hoc Committee be reconstituted as an Ad Hoc Committee of the IEEE Executive Committee effective January 1, 1993.
15. As requested by the RAB/TAB Transnational Committee, approved a proposal that the IEEE Secretary be invited to serve as a voting ex-officio member of the RAB/TAB Transnational Committee.
16. Approved a proposal that TAB provide up to \$10K to help Societies with limited funds to support attendance of their Society Chapter Chairs and Coordinators at the 1993 Sections Congress being held July 1-4 in San Juan, Puerto Rico.
17. Approved a proposal to accept a new methodology to determine non-member list pricing for Society/Council periodicals.
18. Requested the TAB Periodicals Council to develop notification procedures on new Transactions proposals for presentation at the next TAB meeting.

TAB Summary of Actions
April 4, 1992
Page 3

19. Approved the formation of a joint TAB/USAB Ad Hoc Committee to address the roles and relationships between USAB and TAB relative to technology policy positions. TAB Representatives to the Committee will be Dayne Aldridge, Paul Green, Ronald Kline, John Pope and Bruce Shriver.
20. In view of problems that have arisen with USAB Policy Statements being misconstrued as IEEE positions, approved a proposal that any USAB Policy Statement be identified as such by incorporating the phrase (or similar statement): "Position of USAB only, and does not necessarily reflect the positions of the entire IEEE."
21. Requested that an Ad Hoc Committee of the TAB Liaison Council be formed to explore mechanisms for assisting scientists and engineers in needy countries in Regions 8, 9 and 10.
22. Approved a proposal that in distributing the All Periodicals Package income, all articles not meeting IEEE Policy 6.18 - "Guidelines for IEEE Transactions, Journals and Letters" as determined through review by the TAB Periodicals Council, are not to be included in the equivalent page count.
23. As a result of the desire expressed by IEEE members for more availability of IEEE programs and products at a practical engineering level, approved a TAB Conference on Environment, Health and Safety under the auspices of the TAB Design and Manufacturing Engineering Steering Committee to be held in May 1993.
24. Approved a \$20K expenditure from the TAB New Ventures Fund in support of the investigation, development and implementation of generic procedures for indexing and distributing Proceedings of Society sponsored conferences via electronic means, with the intent of paying back the \$20K and generating additional income for TAB.
25. Approved a proposal that the term "Technical Co-sponsorship" replace the term "Participation" in the non-financial conference involvement category, pending revisions to appropriate IEEE Bylaws and IEEE Policy and Procedures Manual.
26. Approved a revision to the IEEE Power Engineering Society Power Life Award.

TAB Summary of Actions
April 4, 1992
Page 4

27. Approved the establishment of the following awards:

IEEE Components, Hybrids, and Manufacturing Technology Society
Electronic Manufacturing Technology Award

IEEE Components, Hybrids, and Manufacturing Technology Society
Outstanding Sustained Technical Contributions Award

IEEE Education Society McGraw-Hill Jacob Millman Award

IEEE Electromagnetic Compatibility Society President's
Memorial Award

IEEE Transactions on Semiconductor Manufacturing Best Paper
Award

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

IEEE
 NEURAL NETWORKS - 0110
 Current Period : APR-92

Mon May 18 1992 11:0
 Page :

Currency: USD
 No Specific Entity requested

NAME	I N C O M E			E X P E N S E			N E T S U R P L U S (D E F I C I T)			
	ANNUAL BUDGET	Y E A R T O D A T E		ANNUAL BUDGET	Y E A R T O D A T E		ANNUAL BUDGET	Y E A R T O D A T E		
		BUDGET	ACTUAL		BUDGET	ACTUAL		BUDGET	ACTUAL	VARIANCE
MEMBER	0.0	0.0	22.8	0.0	0.0	0.0	0.0	0.0	22.8	22.8
NON MEMBER	60.3	53.1	89.9	139.7	126.1	72.9	-79.4	-73.0	17.0	90.0
NEWSLETTERS	0.0	0.0	0.0	21.3	7.1	6.9	-21.3	-7.1	-6.9	0.2
NON PERIODICAL SALES	0.0	0.0	0.4	0.0	0.0	4.4	0.0	0.0	-4.0	-4.0
MEETINGS/CONFERENCES	290.0	96.7	55.0	130.0	43.3	1.2	160.0	53.4	53.8	0.4
INTEREST INCOME	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.8	1.8
ADMINISTRATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMMITTEE/OTHER	62.8	58.3	75.2	61.3	18.6	33.8	1.5	39.7	41.4	1.7
TOTAL	413.1	208.1	245.1	352.3	195.1	119.2	60.8	13.0	125.9	112.9

72

Russell Eberhart 11-P
 Research Triangle Institute
 PO Box 12194
 Research Triangle Park, NC 27709-2194

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

Page 657

IEEE FINANCIAL STATEMENTS
 FOR THE PERIOD ENDING May , 02 1992

Entity - S/C 30
 Business Unit - Neural Networks 0110
 Cost Center - Interest Income 00100

REPORT PROCESSED ON 15-MAY-92

	ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
3910000000 Interest Income - Short Term														
A	0.0	2.5	0.5	0.5	0.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3920000000 Interest Income - Mgmt Fee														
A	0.0	(0.6)	(0.1)	(0.1)	(0.2)	(0.2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
***** TOTAL REVENUE														
A	0.0	1.9	0.4	0.4	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
***** TOTAL NET														
A	0.0	1.9	0.4	0.4	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

73

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

Page 658

IEEE FINANCIAL STATEMENTS
 FOR THE PERIOD ENDING May , 02 1992

Entity - S/C 30
 Business Unit - Neural Networks 0110
 Cost Center - Trans On Neural Networks 00400

REPORT PROCESSED ON 15-MAY-92

	ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
3018000000 S/C Fees Hard Copy														
A	0.0	20.4	14.6	2.8	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3018100000 S/C Fees Micro Fiche														
A	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3102000000 Advertising - Internal Ads														
A	0.0	1.7	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3202000000 Subscriptions - Non-Member Individual														
A	0.0	40.0	30.2	3.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	19.0	16.6	9.5	1.7	2.8	2.6	0.6	0.5	0.6	0.4	0.3	0.0	0.0	0.0
3205000000 Subscriptions - Non-Member All Transactions														
A	0.0	47.7	0.0	35.0	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	41.3	36.5	19.7	0.0	16.8	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3250000000 Airfreight Charges Billed to Subscribers														
A	0.0	1.2	0.8	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3251000000 Airfreight Charges Billed to Members														
A	0.0	0.6	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3310000000 Voluntary Page Charges														
A	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
***** TOTAL REVENUE														
A	0.0	112.5	46.8	43.1	19.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	60.3	53.1	29.2	1.7	19.6	2.6	5.3	0.5	0.6	0.4	0.3	0.0	0.0	0.1
4201509201 2nd Class - Edit US Jan 1992														
A	0.0	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4202509201 2nd Class - Editorial - Non US Jan 1992														
A	0.0	4.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4205509201 Freight & Other Carriage Jan 1992														
A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4206509201 Air Freight Jan 1992														
A	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
***** Total Postage Expense														
A	0.0	6.2	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

HL

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

Page 659

IEEE FINANCIAL STATEMENTS
 FOR THE PERIOD ENDING May , 02 1992

Entity - S/C 30
 Business Unit - Neural Networks 0110
 Cost Center - Trans On Neural Networks 00400

REPORT PROCESSED ON 15-MAY-92

	ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
4301000000 Pub Admin Charge														
A	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	2.8	1.3	0.0	0.7	0.6	0.0	0.0	0.4	0.4	0.0	0.0	0.3	0.4	0.0
4513000000 Editor Fee														
A	0.0	3.3	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4514000000 Editorial Headquarters														
B	20.2	12.3	0.0	0.0	12.3	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.1
4514009201 Editorial Headquarters Jan 1992														
A	0.0	16.6	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4514009203 Editorial Headquarters Mar 1992														
A	0.0	18.2	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4515000000 Editorial Reimbursed Expense														
A	0.0	2.6	0.2	0.0	0.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	13.5	12.0	1.5	9.0	1.5	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
4521509201 Composition Jan 1992														
A	0.0	0.0	7.0	(7.0)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	92.6	92.6	0.0	92.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4530000000 Indexing														
B	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
4542000000 Microfiche														
A	0.0	0.3	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4553009201 Text Paper Jan 1992														
A	0.0	5.2	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4561009201 Camera Work-Prt Set Up Ed Jan 1992														
A	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4581009201 Press Work-Printing Jan 1992														
A	0.0	4.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4582009201 Binding-Prt Ed Jan 1992														
A	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4583009201 Mailing-Prt Ed Jan 1992														
A	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4631009201 Label Preparation Jan 1992														
A	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

56

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

Page 660

IEEE FINANCIAL STATEMENTS
 FOR THE PERIOD ENDING May , 02 1992

Entity - S/C 30
 Business Unit - Neural Networks 0110
 Cost Center - Trans On Neural Networks 00400

REPORT PROCESSED ON 15-MAY-92

	ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
4631009203 Label Preparation Mar 1992														
A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4631009205 Label Preparation May 1992														
A	0.0	0.9	0.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4632000000 Subscription Handling Charge														
A	0.0	11.4	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	9.4	7.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.4	0.0	0.0
4641000000 Voluntary Page Chg Exp														
A	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
***** TOTAL EXPENSE														
A	0.0	72.8	36.1	10.8	20.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	139.7	126.1	9.4	102.3	14.4	0.0	0.0	8.2	1.9	0.0	1.1	0.7	0.4	1.3
***** TOTAL NET														
A	0.0	39.7	10.7	32.3	(1.3)	(2.0)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	(79.4)	(73.0)	19.8	(100.6)	5.2	2.6	5.3	(7.7)	(1.3)	0.4	(0.8)	(0.7)	(0.4)	(1.2)

76

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

Page 661

IEEE FINANCIAL STATEMENTS
 FOR THE PERIOD ENDING May , 02 1992

Entity - S/C 30
 Business Unit - Neural Networks 0110
 Cost Center - Periodical Related - Other 01499

REPORT PROCESSED ON 15-MAY-92

	ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
4633000000														
A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

77

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

Page 662

IEEE FINANCIAL STATEMENTS
 FOR THE PERIOD ENDING May , 02 1992

Entity - S/C 30
 Business Unit - Neural Networks 0110
 Cost Center - Newsletters 01500

REPORT PROCESSED ON 15-MAY-92

	ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
4201509201 2nd Class - Edit US Jan 1992														
A	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4202509201 2nd Class - Editorial - Non US Jan 1992														
A	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4205009002 Express Carriers Feb 1990														
A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4205500000 Freight & Other Carriage														
A	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4205509202 Freight & Other Carriage Feb 1992														
A	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
***** Total Postage Expense														
A	0.0	1.4	0.0	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4515000000 Editorial Reimbursed Expense														
A	0.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4521509201 Composition Jan 1992														
B	21.3	7.1	1.8	1.8	1.7	1.8	1.8	1.7	1.8	1.8	1.7	1.8	1.8	1.8
4553009202 Text Paper Feb 1992														
A	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4581009202 Press Work-Printing Feb 1992														
A	0.0	1.4	0.0	0.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4583009201 Mailing-Prt Ed Jan 1992														
A	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4631009202 Label Preparation Feb 1992														
A	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4631009205 Label Preparation May 1992														
A	0.0	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
***** TOTAL EXPENSE														
A	0.0	7.0	0.4	1.8	2.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	21.3	7.1	1.8	1.8	1.7	1.8	1.8	1.7	1.8	1.8	1.7	1.8	1.8	1.8
***** TOTAL NET														
A	0.0	(7.0)	(0.4)	(1.8)	(2.6)	(2.2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	(21.3)	(7.1)	(1.8)	(1.8)	(1.7)	(1.8)	(1.8)	(1.7)	(1.8)	(1.8)	(1.7)	(1.8)	(1.8)	(1.8)

78

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

Page 663

IEEE FINANCIAL STATEMENTS
 FOR THE PERIOD ENDING May , 02 1992

Entity - S/C 30
 Business Unit - Neural Networks 0110
 Cost Center - Non Periodical 01600

REPORT PROCESSED ON 15-MAY-92

	ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
3408000000 Special Pubs														
A	0.0	0.4	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
*****	TOTAL REVENUE													
A	0.0	0.4	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4144000000 Copyright Filing Fees														
A	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4153000000 Credit Card Charges														
A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4581000000 Press Work-Printing														
A	0.0	4.2	0.4	2.3	0.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
*****	TOTAL EXPENSE													
A	0.0	4.3	0.4	2.3	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
*****	TOTAL NET													
A	0.0	(3.9)	(0.2)	(2.2)	(0.6)	(0.9)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

61

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

Page 664

IEEE FINANCIAL STATEMENTS
 FOR THE PERIOD ENDING May , 02 1992

Entity - S/C 30
 Business Unit - Neural Networks 0110
 Cost Center - Meetings/Conferences 01700

REPORT PROCESSED ON 15-MAY-92

	ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
3610000000 Conferences														
B	290.0	96.7	24.2	24.1	24.2	24.2	24.1	24.2	24.2	24.1	24.2	24.2	24.1	24.2
36100911JS Conferences 91 IJCNN														
A	0.0	55.0	0.0	35.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
***** TOTAL REVENUE														
A	0.0	55.0	0.0	35.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	290.0	96.7	24.2	24.1	24.2	24.2	24.1	24.2	24.2	24.1	24.2	24.2	24.1	24.2
4999000000 Unidentified & Misc Other Exp														
A	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	130.0	43.3	10.8	10.9	10.8	10.8	10.9	10.8	10.8	10.9	10.8	10.8	10.9	10.8
4999093FUZ Unidentified & Misc Other Exp 93 FUZZ														
A	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
***** TOTAL EXPENSE														
A	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	130.0	43.3	10.8	10.9	10.8	10.8	10.9	10.8	10.8	10.9	10.8	10.8	10.9	10.8
***** TOTAL NET														
A	0.0	53.8	(1.2)	35.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	160.0	53.4	13.4	13.2	13.4	13.4	13.2	13.4	13.4	13.2	13.4	13.4	13.2	13.4

28

1992 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

Page 665

IEEE FINANCIAL STATEMENTS
 FOR THE PERIOD ENDING May , 02 1992

Entity - S/C 30
 Business Unit - Neural Networks 0110
 Cost Center - Committee & Other 01900

REPORT PROCESSED ON 15-MAY-92

	ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
30900X001X Inter-Society Transfers Signal Processing														
A	0.0	17.4	11.9	2.8	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	11.4	10.6	7.3	1.4	1.4	0.5	0.2	0.1	0.2	0.2	0.1	0.0	0.0	0.0
30900X004X Inter-Society Transfers Circuits & Systems														
A	0.0	12.7	8.7	2.1	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	12.6	11.8	8.1	1.4	1.5	0.8	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
30900X012X Inter-Society Transfers Information Theory														
A	0.0	4.4	3.2	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	3.0	2.7	2.0	0.3	0.3	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
30900X013X Inter-Society Transfers Industrial Electronics														
A	0.0	0.9	0.5	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.9	0.8	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
30900X018X Inter-Society Transfers Engrg in Medicine & Biology														
A	0.0	5.6	3.9	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	5.6	5.2	3.7	0.7	0.5	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1
30900X019X Inter-Society Transfers Communications														
A	0.0	8.3	5.4	1.4	0.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	9.4	8.7	5.9	1.1	1.2	0.5	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.1
30900X023X Inter-Society Transfers Control Systems														
A	0.0	10.6	7.0	1.8	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	7.6	7.2	4.9	1.0	0.8	0.5	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0
30900X024X Inter-Society Transfers Robotics & Automation														
A	0.0	4.7	3.2	0.7	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	4.4	4.1	3.0	0.5	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
30900X028X Inter-Society Transfers Systems, Man & Cybernetics														
A	0.0	7.5	5.3	1.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	5.8	5.3	3.8	0.7	0.5	0.3	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1
30900X034X Inter-Society Transfers Industry Applications														
A	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30900X036X Inter-Society Transfers Laser & Electro-Optics														
A	0.0	1.6	1.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	2.1	1.9	1.4	0.3	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
3869900000 Miscellaneous Revenue Other														
A	0.0	0.9	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1992 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

Page 666

IEEE FINANCIAL STATEMENTS
FOR THE PERIOD ENDING May , 02 1992

Entity - S/C 30
Business Unit - Neural Networks 0110
Cost Center - Committee & Other 01900

REPORT PROCESSED ON 15-MAY-92

	ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
*****	TOTAL REVENUE													
A	0.0	75.1	50.1	11.8	7.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	62.8	58.3	40.6	7.6	6.8	3.3	1.1	0.9	0.7	0.8	0.3	0.0	0.0	0.7
4081500000	Presidents Office Expense													
A	0.0	17.4	4.1	6.9	6.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	10.0	2.0	0.0	0.7	1.2	0.1	0.3	2.3	0.3	0.0	5.0	0.1	0.1	(0.1)
4082100000	Adcom Committee Expense													
A	0.0	9.8	0.0	4.1	1.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	25.0	4.3	0.0	0.9	1.7	1.7	0.0	0.1	2.9	16.0	0.1	0.7	0.9	0.0
4082200000	Adcom Hq Expense													
A	0.0	0.5	0.0	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
4084100000	Technical Committee Expense													
A	0.0	1.6	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	15.0	8.5	0.0	0.0	5.9	2.6	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0
4086100000	Executive Committee Committee Expense													
A	0.0	1.4	0.0	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4087200000	Awards Hq Expense													
A	0.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4087600000	Standards Coord. Comm.													
A	6.0	2.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
4089800000	Other Committee Expense													
A	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4999000000	Unidentified & Misc Other Exp													
A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	5.0	1.6	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5
*****	TOTAL EXPENSE													
A	0.0	33.8	6.2	11.7	9.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	61.3	18.6	1.0	2.6	9.7	5.3	1.2	3.4	4.1	23.4	6.0	1.7	1.9	1.0
*****	TOTAL NET													
A	0.0	41.3	43.9	0.1	(1.4)	(1.3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	1.5	39.7	39.6	5.0	(2.9)	(2.0)	(0.1)	(2.5)	(3.4)	(22.6)	(5.7)	(1.7)	(1.9)	(0.3)

82

STATEMENT OF FINANCIAL OPERATIONS

 NN Society/Council No. 11 Period Ended 4/30/92

CURRENT BALANCE SUMMARY (figures in thousands)

Net Worth January 1st	241.8
Net Operating Surplus (Deficit) year to date	125.9
Current Net Worth	367.7

SUPPLEMENTAL FINANCIAL DATA (figures in thousands)

Outstanding Conference Loans (See details below)	130,000.
Investments: Option T	N/A
Long Term	N/A
Long Term Interest Earned	

1991 TRANSACTIONS/JOURNALS/MAGAZINES

BUDGET	# Issues		# Pages		\$Print/Dist		
	6	6	960	960	185.3	185.3	
	<u>Estimate</u>	<u>Estimate</u>	<u>Y-t-D</u>	<u>Actual</u>	<u>Y-t-D</u>	<u>Estimate</u>	<u>Y-t-D</u>
Jan	x	170	170	168	168	32.8	32.8
Mar	x	184	354	184	352	35.5	68.3
May	x	144	498			27.8	96.1
Jul							
Sep							
Nov							

MEETINGS: (figures in dollars)	INCOME	EXPENSE
'91 IJCNN Seattle	55,000.00	

LOANS: (figures in dollars)	AMOUNT
'91 IJCNN Singapore	20,000.00
'92 FUZZ	30,000.00
'92 IJCNN	50,000.00
'93 FUZZ	30,000.00

ADVANCES:	
Russ Eberhart	3,994.49
Patrick Simpson	2,700.00
Evangelia Tzanakou	1,500.00
Mary Lou Padgett	500.00
Roy Nutter	1,500.00
Charles Robinson	700.00

James C. Bezdek

Computer Science
Univ. of West Florida
Pensacola, FL 32514

Tel. (904) 474-2784
Fax. (904) 474-3023
jbezdek@uwf.bitnet



4/9/92

Russ Eberhart, President
Neural Networks Council
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Attached : MINUTES OF THE IEEE NEURAL NETWORK COUNCIL (NNC) MEETINGS COMMITTEE Sunset Room,
Town and Country Motel, San Diego, CA, March 8, 1992.

cc : T. Fukuda

The meeting was called to order at 1:00 pm by Chairman Jim Bezdek. A signup sheet was passed around to take attendance, a copy of which is attached. The list of attendees included: *Jim Bezdek, Martin Keye, Charlie Robinson, Tom Caudell, *Roy Nutter, Patrick Simpson, George Lendaris, *Bob Newcomb, Nomi Feldman, *Russ Eberhart, Enrique Ruspini, Troy Nagle, *Walter Karplus, Wesley Snyder, Bob Marks, and Don Kraft (an asterisk denotes membership on the Committee).

Russ Eberhart reported on the Singapore meeting, noting attendance of six hundred. The cost is approximately \$10,000 for INNS and again for the NNC (Singapore dollars), and an audit is coming.

George Lendaris reported that the Seattle meeting should net 50% of \$120,000 profit for IEEE.

Nomi Feldman reported that FUZZ-IEEE in San Diego has around 450 attendees with a few more expected. There should be about \$130,000 in expenses and \$140,000 in revenue. A discussion of attracting more exhibits ensued. It was noted that the San Diego IEEE Section gets 10% of the profit (or loss), as part of a "gentlemen's agreement" executed at the Seattle IJCNN.

Clifford Lau reported to Russ that 750 papers have been submitted for the IJCNN in Baltimore, so 2000 attendees are expected. The budget has been revised several times, and approval has already been given. Discussion of benefits for student registrants ensued.

Wesley Snyder reported on the RNNS in Rostov, Russia next year. Personal and political concerns were discussed. The proceedings will be in English, with 100 papers from the former Soviet Union (FSU) and twenty-five outside expected. There will probably be a small loss. An NSF proposal for \$10,000 for travel is pending. It was moved and seconded to approve the budget (attached); motion passed.

Enrique Ruspini reported on the FUZZ-IEEE '93 meeting to be held in San Francisco. Increased industrial participation was discussed, as were deadlines and increased tutorials. 700 attendees are projected. Discussion of travel to a high-cost-city, management fees, the contract with Meeting Management, CD-ROM proceedings, and registration fees ensued. It was moved and seconded to approve a downsized budget with 600 attendees, with \$20,520 in expected surplus. As revised, the limit on the publicity portion of the budget is \$55,000. It was then moved and seconded to forward Ruspini the remainder of seed money promised by the NNC; motion passed.

Russ Eberhart reported on the Beijing meeting. The agreement between the NNC and INNS has been terminated. The NNC supports the Chinese Chair but there is confusion as INNS has apparently voted to move their meeting to Shanghai. This meeting will be an IJCNN, and has 400 papers from inside China plus 270 from outside. The committee recommended rejecting the proposed budget (too high) with a projected loss; and too high an estimate of

attendees. The issue was deferred until the situation with the INNS and China is clarified via email or telephone calls or even a visit to China by Russ Eberhart.

The World Congress on Intelligent Systems, which was to be held in Washington, DC at the Sheraton in 1994, which was moved to Orlando in 1994, and the promise of a meeting in 1996 has been given to the Sheraton hotel in Washington. Failure to hold a meeting of significant size there in 1996 could lead to a penalty of as much as \$40,000. Nomi Feldman has negotiated a 1996 stance with the Hotel. A motion to allow the Meetings Committee to investigate holding a meeting there in 1996 was made, seconded, and passed.

George Lendaris reported on the Portland meeting, expressing concern that IEEE support was being dropped due to the separation between INNS and the NNC. It was moved and seconded to offer no official IEEE cooperation to the Portland conference, but to push for IEEE publication of the conference proceedings. A substitute motion was made, seconded, and passed to suspend debate on this issue and let the Meetings Committee go into executive session after this meeting was adjourned to deliberate this issue further.

Tom Caudell reported on the Virtual Reality (VRAIS '93) meeting to be held in Seattle in September, 1993. It was moved and seconded to accept the meeting in principle, subject to the budget submitted (attached) to be reviewed by the Vice President and Treasurer of the NNC; an amendment to the motion to provide \$10,000 in seed money was made, seconded, and passed; then the original motion passed.

A report on the Nagoya, Japan meeting was presented. Much discussion of the budget ensued. It was moved and seconded to request ADCom to delegate approval of the budget (attached) to the Meetings Committee, which passed.

Because of the late hour, it was moved and seconded to hear the proposal for an Australian meeting, then to meet with ADCom rather than go into executive session, which passed. Martin Keye then discussed a proposal for an ICNN meeting to be held in Perth, Western Australia in 1994. The Committee thought it was a good proposal but consideration would have to be deferred until the June meeting of the Committee at the Baltimore ICNN.

Discussion of cooperating status for meetings will require a report to ADCom later. It was moved, seconded and passed that the meetings committee had authority to render decisions about this item via email, with a permanent record of such transactions being introduced into subsequent minutes of the committee.

The World Congress in June, 1994 was discussed. It was moved and seconded to have Steve Rogers as Chair of the ICNN portion, and to have and Charlie Robinson as Overall Congress Chair, with Piero Bonisone as Chair of the FUZZ-IEEE '94 portion of the Congress; motion passed.

A discussion of a bill for travel for one of the Meeting Management staff for \$556 that had not been approved prior ensued. It was moved and seconded not to approve the payment of the bill without adequate justification; motion withdrawn. It was moved, seconded, and passed to turn this matter over to the President of NNC. Finally, the action of drafting a contract to use for meeting management services was deferred.

The meeting was adjourned at 3:50 pm.

Respectfully submitted,

Donald H. Kraft, Acting Secretary
Jim Bezdek, Chair

Agenda/Minutes for the Meetings Committee of the NNC : Baltimore, June 6, 1992

In Attendance		
1	Jim Bezdek, Chair	
2	Walter Karplus	
3	Bob Newcombe	
4	Roy Nutter	
5		
Item	Points	Action
1	Number of ICNN meetings to hold each calendar year. One in the US and one outside; or one per year, alternating in the US and outside ? (Bezdek)	
2	NNC guidelines for contractual services offered by conference management firms. Report on the first draft (Simpson)	
3		

EXTENDED DEADLINE: May 31, 1992!!
CALL FOR PAPERS



**1992 International Joint Conference
on Neural Networks**
Beijing, China
November 3-6, 1992

INNS

General Chair
Dr. Zong Sha
Chinese Institute of Electronics
Beijing, China

Sponsored by:
The IEEE Council on Neural Networks
The International Neural Network Society
The China Neural Networks Council
The IEEE Beijing Section

IJCNN'92
Beijing

The International Joint Conference on Neural Networks (IJCNN '92-Beijing) will be held November 3-6, 1992 (Tutorials on November 1-2), in Beijing, China. This conference is intended to provide a forum for dissemination of the latest scientific and technical information in the various fields of Neural Networks. All persons interested in the field of Neural Networks are invited to submit papers to this conference.

General Information:

For further details you may write or fax Dr. Russell C. Eberhart at the address given.

Registration:

Ms. Nomi Feldman
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego, CA 92121 USA
Phone : (619)453-6222
Fax: (619)535-3880

TOPICS OF INTEREST

Papers may be submitted for consideration as oral or poster presentations in the following areas:

- | | | |
|-------------------------------|---------------------------|------------------------------|
| Applications | Associative Memory | Biological Models |
| Biomedical Applications | Bio-Molecular Electronics | Electrical Neurocomputers |
| Financial Applications | Fuzzy Logic | Image Processing |
| Mathematical Models & Methods | Hybrid Systems | Optical Neurocomputers |
| Optimization | Neurodynamics & Chaos | Self Organization |
| Vision & Hearing | Robotics & Control | Sensorimotor Control Systems |

Send Papers to:

(In China)
Prof. Yi Zin Zhong
IJCNN '92 Beijing
Beijing Univ. of Posts & Telecom.
Beijing 100088, China
Tel: 201-3388 ext. 2203
Telex: 210431 CIE CN
Fax: 500-5233

(Outside China)
Dr. Russell C. Eberhart, Director
Biomedical Engineering
Research Triangle Institute
PO Box 12194
Research Triangle Park NC 27709 USA
Phone: 919-541-7123, Fax: 919-541-8746
E-mail: rce@rti.rti.org

PAPERS MUST BE RECEIVED BY MAY 31, 1992.

All submissions will be acknowledged by mail, and accepted papers will be published as submitted.

All papers accepted for presentation will be published in full in the Conference Proceedings, which is expected to be available at the Conference for distribution to all regular Conference registrants. Oral presentations will be given from 8 a.m. to 12N and from 5p.m. to 9 p.m. Afternoons are devoted to poster sessions and exhibits.

Four (4) copies (one original and three copies) of the paper are required for submission. Do not fold or staple the original camera-ready copy. Only complete papers will be considered. Papers must be submitted camera-ready on 8 1/2" x 11" white paper with one inch margins on all four sides. They should be prepared by typewriter or letter-quality printer in one-column format, single-spaced, in Times or similar type style of 10 points or larger, and printed on one side of the page only. (This text is 10 point Times.) All text, figures, captions, and references must be clean, sharp, readable, and high contrast.

FAX submissions are *not* acceptable. There will be a charge for papers exceeding six pages.

Centered at the top of the first page should be the complete title, author name(s), affiliation(s), and mailing address(s). This is followed by a blank space and then the abstract, up to 15 lines, followed by the text. In the accompanying letter, the following information must be included:

- Full Title of the Paper
- Corresponding Author Name
- Mailing Address
- Telephone and FAX Numbers
- Technical Session 1st and 2nd choices
- Presentation Preferred- Oral or Poster
- Presenter Name, Mailing Address Telephone and FAX Numbers
- Audio Visual Requirements



NEURAL NETWORKS COUNCIL

Russell C. Eberhart
President

March 19, 1992

Prof. Sha Zong
IEEE Beijing Section
Chinese Institute of Electronics
Nongzhanguan Nan Lu No. 12, Room 2308
Beijing 100026, Peoples Republic of China

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

Prof. Sha:

Following is a further revised version of the document you faxed to me three days ago, with the corrections you faxed to me yesterday included. I have also changed the title of item II. to "Participating Societies", since calling them "Sponsors" has a financial implication for the IEEE that we must avoid. I have signed the document, indicating the approval of the IEEE Neural Networks Council. If you concur with this amended agreement, please sign and return one copy to me by fax. If you do not concur, please let me know what changes you would like to make. Thank you.

STRUCTURE OF IJCNN '92 - BEIJING (Amended March 19, 1992)

Following is a structure for the neural networks meeting in Beijing (IJCNN '92 - Beijing). The main points are following:

- I. Name of the conference: 1992 International Joint Conference on Neural Networks - Beijing (IJCNN '92 - Beijing)
- II. Participating Societies:
 - The IEEE Neural Networks Council
 - The China Neural Networks Council
 - The International Neural Network Society
 - The IEEE Beijing Section

Due to the termination of the agreement between IEEE NNC and INNS, there will be no leading society, and no direct or special cooperation between IEEE NNC and INNS. Both organizations will cooperate with CNNC separately and bilaterally.

- III. Collection of papers:
 - Both IEEE NNC and INNS will collect papers and register participants independently outside China. CNNC will collect papers and register participants within China. All camera-ready papers

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

must be sent to CNNC before the end of June, 1992. CNNC will be responsible for printing the proceedings of the conference.

IV. Financial Relationship:

1. Registration fee structure:

	before Sept. 30	after Sept. 30
Member	US \$325	US \$375
Non-member	375	425
Student	120	120

2. The registration fees of attendees collected by IEEE NNC will be divided between CNNC and IEEE NNC. IEEE NNC will retain US \$200 for each non-student attendee and \$60 for each student attendee. The balance will be transferred to CNNC no later than one month before the commencement of the conference for those registrations received by that time, and within one month following the conference for those registrations received later. The same division also will be applied between the CNNC and INNS. There will be no financial relationship between IEEE NNC and INNS.

V. Responsibilities:

CNNC:

1. Proceedings printing
2. Conference rooms, coffee breaks, hotel selection
3. Collection of papers and registration of participants in China
4. Transportation between airport and hotel
5. Post-conference tours, local tour, technical tour
6. Exhibition

IEEE NNC:

1. Collection of papers and registration of participants outside China
2. Call for papers printing and advertisement outside China
3. Cooperation with CNNC to organize local tours, post-conference tours, and the exhibition. The CNNC will have fiscal responsibility: the CNNC will receive surplus funds from these events, and be responsible for any financial loss of these events.
4. Post-conference sales of the Conference Proceedings through the IEEE Book Broker Program at IEEE Headquarters.

INNS:

1. Same as IEEE NNC.
2. Same as IEEE NNC.
3. Organize tutorial program, and have fiscal responsibility for it, receiving any surplus funds and being responsible for any financial loss.

VI. Conference Organization:

General Chair: Prof. Wu You Shou
General Co-Chair: Dr. Eberhart
" " Prof. Amari
Program Chair: Prof. Zhong Yi Xin
Program Co-Chair: Dr. Harold Szu
" " One scientist from IEEE NNC
Organizing Chair: Prof. Zong Sha

VII. Conference Site:

Will be selected by CNNC before April 15

VIII. All the materials for the second call and final call will be sent to the IEEE NNC and INNS by the end of April, 1992, by CNNC.

*****NOTE: Approvals by the IEEE NNC and CNNC below do not imply or indicate in any way approval or disapproval by the INNS.

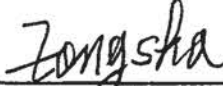
Approved by the IEEE NNC
on March 19, 1992



Russell C. Eberhart
President

艾儒士

Approved by the CNNC
on March 21, 1992 (date)



Prof. Sha Zong
Organizing Chairman IJCNN '92 Beijing

沙踪

IEEE NNC 1993 San Francisco Conferences Status Report

• Technical Program

- NNC Committee chosen (Need L.A. and Vol.)
- 9 parallel sessions
- Tutorial (ICNN-FUZZ) program complete
- Posters
- Schedule developed
- Relies on coordinated use of similar computational resources
- Video Committee

• Publications

- IEEE Publications chosen
- CD ROM
- Video Proceedings

• Hotel

- Session Space
- Event Space/Food
- Fees, Commissions, Room Prices, etc.
- Alternatives
 - * Other venues
 - * Events
 - * Sessions

IEEE NNC 1993 San Francisco Conferences Status Report

• Promotion

- Revised Fuzzy Brochure
- Combined Brochure
- Future plans
- Exhibits/Trade Show
- Advertisements
- Mailing / Local Distribution

• Management

- IEEE Status
- Meeting Management Company

• Budget

COMBINED BUDGETS - IEEE NNC '93 San Francisco Conferences

<u>Part I: INCOME</u>	<u>RUZZ-IEEE'93</u>			<u>ICNN93</u>			<u>COMBINED</u>	
	Qty.	Fee	Budget	Qty.	Fee	Budget	Qty.	Budget
<u>REGISTRATION FEES</u>								
MEMBERS								
Registered before 2/1/93	200	\$375	\$75,000	200	\$375	\$75,000	400	\$150,000
Registered at Conference	200	\$425	\$85,000	200	\$425	\$85,000	400	\$170,000
NONMEMBERS								
Registered before 2/1/93	50	\$425	\$21,250	50	\$425	\$21,250	100	\$42,500
Registered at Conference	50	\$475	\$23,750	50	\$475	\$23,750	100	\$47,500
STUDENTS								
Registered before 2/1/93	50	\$75	\$3,750	50	\$75	\$3,750	100	\$7,500
Registered at Conference	50	\$120	\$6,000	50	\$120	\$6,000	100	\$12,000
TOTAL REGISTRATION	600	Total	\$214,750	600	Total	\$214,750	1200	\$429,500
<u>EXHIBITS ONLY PARTICIP.</u>								
Registered before 2/1/93	125	\$15	\$1,875	125	\$15	\$1,875		\$3,750
Registered at the Conference	125	\$20	\$2,500	125	\$20	\$2,500		\$5,000
TOTAL EXHIBITS ONLY			\$4,375			\$4,375		\$8,750
<u>CONFERENCE SALES</u>								
<u>Paper Proceedings</u>								
To members	100	\$60	\$6,000	200	\$60	\$12,000		\$18,000
To non-members	100	\$80	\$8,000	200	\$80	\$16,000		\$24,000
To IEEE Headquarters	450	\$40	\$18,000	1000	\$40	\$40,000		\$58,000
<u>CD ROM Proceedings</u>								
To members								
To non-members								
To IEEE Headquarters								
<u>VIDEO Proceedings (3)</u>								
To members-1	300	\$22	\$3,300	300	22	\$3,300.00		\$6,600
To members-2	125	\$12	\$750	125	12	\$750.00		\$1,500
To non-members-1	150	\$32	\$2,400	150	32	\$2,400.00		\$4,800

COMBINED BUDGETS - IEEE NNC '93 San Francisco Conferences

To non-members-2	50	\$22	\$550	50	22	\$550.00	\$1,100	
TOTAL CONF. SALES	Total		\$39,000	Total		\$75,000	\$114,000	
EXHIBITS								
Booths/Publishers	5	\$850	\$4,250	5	\$850	\$4,250	10	\$8,500
Booths/All others	30	\$1,300	\$39,000	40	\$1,300	\$52,000	70	\$91,000
	Total		\$43,250	Total		\$56,250	\$99,500	
SOCIAL FUNCTIONS								
Optional Tours (1)			\$0			\$0	\$0	
TOTAL SOCIAL FUNCTIONS			\$0			\$0	\$0	
ALL OTHER								
Tutorial, one only	60	\$275	\$16,500	60	\$275	\$16,500	120	\$33,000
Tutorial	210	\$375	\$78,750	210	\$375	\$78,750	420	\$157,500
TOTAL OTHER INCOME			\$95,250			\$95,250	\$190,500	
SEED MONEY ADVANCE			\$40,000			\$50,000	\$90,000	
TOTAL INCOME:			\$436,625			\$495,625	\$932,250	

COMBINED BUDGETS - IEEE NNC '93 San Francisco Conferences**Part II: EXPENSES****PROMOTION:**

Brochure printing		\$9,500		\$7,000		\$16,500
Program/prod and printing		\$2,000		\$2,000		\$4,000
Mailing lists and labels		\$1,500		\$1,500		\$3,000
Postage		\$12,500		\$12,500		\$25,000
Mailing house		\$4,000		\$4,000		\$8,000
Advertising		\$14,000		\$14,000		\$28,000
Conference Posters		\$5,000		\$4,000		\$9,000

TOTAL PROMOTION

		\$48,500		\$45,000		\$93,500
--	--	----------	--	----------	--	----------

CONF. PUBLICATION

Proceedings Printing (2)	1300	\$22	\$29,000	2000	\$20	\$40,000	3300	\$69,000
Comm. w./auth./sess. chairs			\$3,000			\$3,000		\$6,000
Shipping(Conference/IEEE)			\$1,100			\$1,100		\$2,200
Other/Souvenir Items			\$8,500			\$8,500		\$17,000
CD-ROM Production								
CD-ROM Shipping								
Video Production			\$3,000			\$3,000		\$6,000

TOTAL PUBLICATIONS

			\$44,600			\$55,600		\$100,200
--	--	--	----------	--	--	----------	--	-----------

EXHIBITS

Promotion			\$2,500			\$2,500		\$5,000
Signage			\$2,200			\$2,200		\$4,400
Exhibits Mktg.			\$3,000			\$3,000		\$6,000
Furniture			\$3,000			\$3,000		\$6,000
Comm. w. Exhibitors			\$1,100			\$1,500		\$2,600

TOTAL EXHIBITS

			\$11,800			\$12,200		\$24,000
--	--	--	----------	--	--	----------	--	----------

SOCIAL FUNCTIONS

Optional Tours (1)								
Org. Committee Breakfast			\$2,000			\$2,000		\$4,000
Coffee Breaks/Tutorials			\$3,500			\$3,500		\$7,000
Coffee Breaks/Committee			\$1,600			\$1,600		\$3,200
Coffee Breaks/Conference			\$27,000			\$27,000		\$54,000

COMBINED BUDGETS - IEEE NNC '93 San Francisco Conferences

Opening Reception	\$10,000	\$10,000	\$20,000
Reception/Banquet	\$39,000	\$39,000	\$78,000
TOTAL SOC. FCTN. EXP.	\$83,100	\$83,100	\$166,200
ADMINISTRATION			
Insurance and bonding	\$100	\$100	\$200
Security and guard service	\$5,000	\$5,000	\$10,000
Audio-video rental and op.	\$8,000	\$8,000	\$16,000
Adm. Clerical Help	\$9,500	\$9,500	\$19,000
Adm. Supplies/Rentals	\$6,000	\$6,000	\$12,000
Mgt. Fee (Sliding Scale)	\$22,500	\$22,500	\$45,000
Off. Equip. Rental (in site)	\$2,000	\$2,000	\$4,000
Pr.forms tickets, stat., etc.	\$2,500	\$2,500	\$5,000
Signs, badges, etc.	\$3,000	\$3,000	\$6,000
Telephone, FAX, Copying	\$3,500	\$3,500	\$7,000
Regist. help / Bookkeeping	\$11,000	\$11,000	\$22,000
Contingency Fee Provision	\$10,500	\$10,500	\$21,000
Prog. Committee Travel	\$16,000	\$16,000	\$32,000
Chairman's Discr. Budget	\$14,000	\$14,000	\$28,000
TOTAL ADMINISTRATION	\$113,600	\$113,600	\$227,200
ALL OTHER			
Tutorials/Signage	\$1,650	\$1,650	\$3,300
Tutorials/Notebooks (2)	\$7,300	\$7,300	\$14,600
Tutorials/Audiovisual	\$2,500	\$2,500	\$5,000
Tutorials/Honor / Expenses	\$12,000	\$18,000	\$30,000
Invited Speakers Expenses	\$10,000	\$12,000	\$22,000
Audit	\$4,000	\$4,000	\$8,000
Voluntary Help Expenses	\$3,500	\$3,500	\$7,000
TOTAL OTHER EXPENSES	\$40,950	\$48,950	\$89,900
TOTAL EXPENSES	\$342,550	\$358,450	\$701,000
LOAN REPAYMENT	\$40,000	\$50,000	\$90,000
TOTAL OUTLAYS	\$382,550	\$408,450	\$791,000
SURPLUS (LOSS)	\$54,075	\$87,175	\$141,250

COMBINED BUDGETS - IEEE NNC '93 San Francisco Conferences**Part III: SUMMARY****INCOME**

6A. Registration Fees	\$214,750	\$214,750	\$429,500
6B. Exhibit Only Fees	\$4,375	\$4,375	\$8,750
7. Conf. Pub. Sales	\$39,000	\$75,000	\$114,000
8. Exhibits	\$43,250	\$56,250	\$99,500
9. Social Functions	\$0	\$0	\$0
10. All other conf. receipts	\$95,250	\$95,250	\$190,500
11. Total conference income	\$396,625	\$445,625	\$842,250
12. Advance loans	\$40,000	\$50,000	\$90,000
13. Total receipts	\$436,625	\$495,625	\$932,250

EXPENSE

14. Promotion	\$48,500	\$45,000	\$93,500
15. Conference Publications	\$44,600	\$55,600	\$100,200
16. Exhibits	\$11,800	\$12,200	\$24,000
17. Social functions	\$83,100	\$83,100	\$166,200
18. Administration	\$113,600	\$113,600	\$227,200
19. All other conf. expenses	\$40,950	\$48,950	\$89,900
20. Total Conference Expenses	\$342,550	\$358,450	\$701,000
21. Loan Repayments	\$40,000	\$50,000	\$90,000
22. Total outlays	\$382,550	\$408,450	\$791,000
23. Total receipts	\$436,625	\$495,625	\$932,250
24. Total outlays	\$382,550	\$408,450	\$791,000
25. SURPLUS(LOSS)	\$54,075	\$87,175	\$141,250

NOTES

- (1) Nonbudget item (To be offered separately)
- (2) IEEE Press Bld (Ann Burgmeyer)
- (3) Assumes Prices \$10 higher than for RAS
- (4) NNC Exposure per EAB Proposed Agreement

**1993 IEEE International Conference on Neural Networks
Hyatt Regency at Embarcadero Center, San Francisco, California
March 28 — April 1, 1993**

General Chair: Enrique H. Ruspini

Program Cochairs: Hamid R. Berenji, Elie Sanchez, Shiro Usui

Advisory Board

Shun-ichi Amari
James Anderson
James C. Bezdek
Yves Burnod
Leon Cooper
Russell C. Eberhart
Rolf Eckmiller
Jerome Feldman

Marcus Feldman
Fumihiko Fukushima
Robert Hecht-Nielsen
John Holland
Charles Jorgensen
Teuvo Kohonen
Clifford Lau
Carver Mead

Norman Packard
David Rummelhart
Bryan Skyrms
Lawrence Stark
Allen Stubberud
Hideyuki Takagi
Phillip Treleaven
Bernard Widrow

Program Committee

Kazuyuki Aihara
Igor Aleksander
L.B. Almeida
Gerry Andeen
Charles Anderson
James Anderson
Andreas Andreou
Panos Antsaklis
Jacob Barhen
Behnam Bavarian
Hamid R. Berenji
Aviv Bergman
James C. Bezdek
Herve Bourlard
Donald E. Brown
Joan Cabestany
David Casasent
Silvano Colombano
Rui de Figueiredo
M. Dufosse
Russell C. Eberhart
R. M. Farber
Jay Farrell
Jerome Feldman
William Fisher
Walter Fontana
A.A. Frolov
Toshio Fukuda

Charles Glover
Karl Goser
Dan Hammerstrom
Mohamad H Hassoun
Jeanny Herault
John Hertz
David Hislop
A. Iwata
M. Jordan
Charles Jorgensen
Leslie P. Kaelbling
Pratap Khedkar
Shinzo Kitamura
Bart Kosko
John Koza
Clifford Lau
Caro Lucas
Robert J. Marks
Jerry Mendel
W. Thomas Miller
Melanie Mitchell
Sei Miyake
A.F. Murray
Jean-Pierre Nadal
Takashi Nagano
Kumpati S. Narendra
Robert Newcomb
E. Oja

Norman Packard
Andras Pellionisz
L. Personnaz
Alberto Prieto
Dimitri Psaltis
Herbert Rauch
Tom Ray
Max B. Reid
Michael Roth
Elie Sanchez
Jude Shavlik
Bing Sheu
Shigeru Shinomoto
John Shynk
Patrick K. Simpson
Noboru Sonehara
Donald F. Specht
Allen Stubberud
Noboru Sugie
Hideyuki Takagi
Shiro Usui
David White
Halbert White
Ronald Williams
Eiji Yodogawa
Shuji Yoshizawa
Steven W. Zucker

MAY 30 '92 22:17 E. H. RUSPINI

TO:

919 541 8746

Organizing Committee

Publicity: Hamid R. Berenji

Tutorials: James C. Bezdek

Exhibits: Wei Xu

Finance: Richard Tong

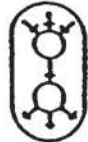
Local Arrangements:

Volunteers:



IEEE

NEURAL NETWORKS COUNCIL



Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

April 6, 1992

Dr. W. S. Gan
Acoustical Services P/L
Singapore
Fax: 65-791-3665

Dear Dr. Gan:

In response to your recent fax to me, here are the answers to your questions:

- 1) Provided that the conference is scheduled so that it does not conflict with major IEEE Neural Networks Council (NNC) conferences, the NNC will share in one-third of the loss up to a maximum of US \$5,000 should there be a loss. Our 1993 International Conferences on Neural Networks in San Francisco and Nagoya are scheduled for late March and mid-October, respectively. In order for the NNC to co-sponsor, therefore, we ask that you avoid March, April, September, October and November.
- 2) The NNC has only one mailing list available, and it must be purchased from IEEE Headquarters. It is the mailing list of the subscribers to the Transactions on Neural Networks. I'm not sure of the cost, but it is probably about US \$1,000 or so. You may purchase it for purposes of conference mailing only; it may not be used for any other purpose. We will authorize you to purchase it, with the understanding that the scheduling constraints in 1) above are met.
- 3) The only IEEE publication under NNC control is the Transactions on Neural Networks. You should contact the Editor, Dr. Robert Marks, for information on advertising in that journal.
- 4) In order for seed money to be approved, we must approve a budget for the meeting. Please submit the budget, in IEEE-approved format, to us by May 1 so that we may consider it at the June 7 NNC AdCom Meeting.
- 5) Scheduling constraints as far as the IEEE NNC is concerned are listed in 1) above. The Portland conference is scheduled in early July. You should also avoid scheduling your meeting within one month of the Portland meeting. Late May, mid-to-late August, and early December are possibilities.

Very truly yours,

R. C. Eberhart
Russell C. Eberhart

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. (IEEE) SINGAPORE SECTION

IEEE Singapore Section • 200 Jalan Sultan • #11-03 Textile Centre • Singapore 0719
Tel: (65) 291 9690 • Fax: (65) 292 8596

TELEFAX TRANSMITTAL

DATE: 30 April 1992 NO. OF PAGES: 2
(Including this page)

ATTN: Dr Russell C Eberhart

DEPARTMENT: President FAX NO.: (919) 541 8746

ORGANISATION: IEEE NEURAL NETWORKS COUNCIL COUNTRY: _____

FROM: Jasmine Leong (Mrs)

IF TRANSMISSION IS POOR OR INCOMPLETE, PLEASE CALL TEL: (65) 291 9690

MESSAGE

Dear Dr Eberhart

INTERNATIONAL CONFERENCE ON NEURAL NETWORKS APPLICATION TO SIGNAL PROCESSING (NNASP '93), 17 - 20 AUGUST 1993, SINGAPORE

Further to your fax to Dr W S Gan of Acoustical Services, Chairman of the Signal Processing Chapter of the IEEE Singapore Section, I am pleased to enclose the budget of the above Conference for your submission to your Council for approval.

Please be informed that the IEEE Singapore Section is the Secretariat of the Conference and I would appreciate if you could address all future correspondence to him at the following address:

Dr W S Gan
Organising Chairman - NNASP '93
IEEE SINGAPORE SECTION
200 Jalan Sultan
#11-03 Textile Centre
Singapore 0719
Tel: (65) 291 9690
Fax: (65) 292 8596

Thank you very much for your kind assistance.

Best Regards



THE INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

IEEE SINGAPORE SECTION

INTERNATIONAL CONFERENCE ON NEURAL NETWORKS APPLICATION TO SIGNAL PROCESSING
(NNASP '93), 17 - 20 AUGUST 1993, SINGAPORE PLEASE REPLY TO:

BUDGET (IN US DOLLARS) - Exchange Rate: US\$1.00 = S\$1.65 (Singapore Dollars)

	US\$	US\$
(A) REGISTRATION FEE		
Member : \$400 x 150		60,000

TOTAL INCOME		60,000

(B) EXPENSES		
1) <u>Promotion</u>		
a. Printing - Call for Papers	250	
b. Printing - Advance Programme	2,400	
c. Printing - Final Programme	900	
d. Postage	3,300	
e. Advertisement	3,000	9,850

2) <u>Conference Publication</u>		
a. Conference Proceedings		8,000
3) <u>Administration</u>		
a. Projection Equipment Rent and Operation	1,200	
b. Management, Secretarial Services	7,400	
c. Stationery, souvenirs, etc	2,200	
d. Banner	300	
e. Telecommunication	500	
f. Miscellaneous	600	12,200

4) <u>Others</u>		
a. Technical Programme	2,700	
b. Local Arrangements - Hotel	25,800	28,500
	-----	-----
TOTAL EXPENSES		58,550

SURPLUS - (A) less (B)		1,450
		=====

CALL FOR PROPOSALS

The program committee cordially invites experts in the field to submit proposals for tutorials dealing with virtual reality technology. Topics to be considered include hardware, software, psychophysical factors, and applications. The tutorials will be two hours in length.

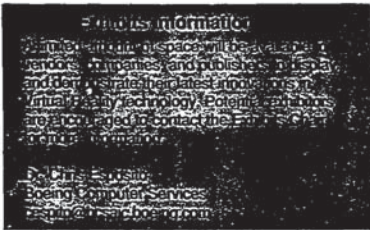
The two page proposal should include the author, affiliation, and qualifications, the length of time needed to cover the material, a detailed section on the subject to be taught, all audio/visual requirements, and email address. Postal mail and email submissions are acceptable.

Deadline for submission: 1 November 1992

Notification date: 1 December 1992

Please send proposals to:

Dr. Blake Hannaford
Dept. of EE, FT 10
University of Washington
Seattle, WA 98195
hannaford@ee.u.washington.edu



For further information on the conference contact:
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego, CA 92121

Tel. (619) 453-6222
FAX (619) 535-3880

**VRAIS - The First Annual IEEE
International Conference on Virtual Reality
Technology**
Sponsored by the IEEE Neural Networks Council
18 - 22 September 1993
Seattle, Washington



VRAIS 1993
5665 Oberlin Drive, Suite 110
San Diego, CA 92121

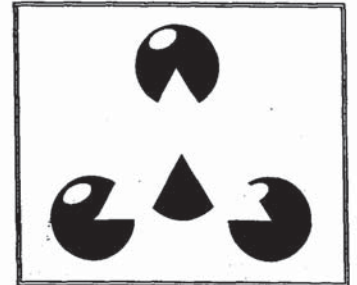
FIRST IEEE CONFERENCE ON VIRTUAL REALITY TECHNOLOGY



VRAIS

VIRTUAL REALITY ANNUAL INTERNATIONAL
SYMPOSIUM

1 9 9 3



**SEATTLE, WASHINGTON
18 - 22 SEPTEMBER
1993**

SPONSORED BY THE IEEE
NEURAL
NETWORKS COUNCIL

Non-Profit
U.S. Postage
PAID
San Diego CA
Permit No. 51

104

VRAIS™

IEEE Virtual Reality Annual International Symposium

ORGANIZATION

- General Chair: Thomas Furness
 University of Washington
- Program Co-Chairs: Thomas Caudell
 Boeing Computer Services
- Michitaka Hirose
 University of Tokyo
- Organization Chair: Robert Marks II
 University of Washington
- Publications Chair: Mani Soma
 University of Washington
- Finance Chair: Dmitry Kaplan
 Siemens-Quantum Corp.
- Local Arrangements Chair: Mohamed El-Sharkawi
 University of Washington
- Tutorials Chair: Blake Hannaford
 University of Washington
- Exhibits Chair: Chris Esposito
 Boeing Computer Services
- International Liaisons: Masahiro Kawahata
 Fujitsu Research Institute
- Toshio Fukuda
 Nagoya University
- Meeting Management: Nomi Feldman
 Meeting Management

The program committee cordially invites you to submit your technical work in virtual reality technology to this conference. Submissions may be in the form of either technical papers or videos to be included in proceedings. Papers will be peer reviewed. Accepted technical papers will be published in both paper and CD ROM format. Topics to be considered include:

- | | |
|-----------------------------|-----------------------------|
| 3D audio | multimedia |
| actuators | neural networks |
| animation and modeling | olfactory feedback |
| applications | operating systems |
| artificial intelligence | optical systems for display |
| compilers | parallel processing |
| control theory | psychophysical factors |
| flat panel displays | robotics / teleoperation |
| force feedback | safety standards |
| fuzzy logic | scaled teleoperation |
| graphics algorithms | sensors |
| graphics and video hardware | software tools |
| high performance drives | tactile feedback |
| human factors | taste feedback |
| human perception | position tracking |
| kinesthetic feedback | wireless computer networks |

Technical Papers: Paper submission will occur in two stages: 1) review copies submission and 2) camera-ready copy submission. For review, please mail five(5) hardcopies of full papers of at most 10 double spaced pages 12 point font including figures, tables, and references to the address below. In a cover letter, please include topic area, correspondence address, phone and FAX numbers, and email address if available. Please DO NOT send full papers electronically. Upon acceptance, you will receive notification and an authors kit to aid in the preparation of the camera-ready copy.

Deadline for review copies: 1 December 1992

Notification date: 1 April 1993

Deadline for camera-ready copy: 15 May 1993

Mail hardcopy to:
 Meeting Management
 5665 Oberlin Drive, Suite 110
 San Diego, CA 92121
 Tel. (619) 453-6222
 FAX (619) 535-3880

The program committee cordially invites you to submit your experimental results, software and hardware demonstrations, and computer animations and graphics in video tape format. The videos are intended to enhance and compliment the topics in the technical paper section. Videos will be peer reviewed. Accepted videos will be either published on a one hour 1/2 inch VHS format tape or shown in a video poster session in the hotel.

Suggestions for video production:

- Use sound constructively. Music and background noise generally detract from the presentation.
- Flow charts, block diagrams, circuit boards, computers, or operators usually add little.
- Keep the subject technical, not promotional.
- Illustrate systems or results not easily conveyed in a written paper.
- Be concise, convey one major result clearly.
- Make videos 'stand alone' and self-contained.
- Tie subject of video to a technical paper if possible.

Technical Videos: Please submit one high quality copy of a 2 to 3 minute video segment in 1/2 inch VHS or 1 inch Umatic format, and a one page information sheet containing TITLE, AUTHORS, AFFILIATIONS, ADDRESS, 200 WORD ABSTRACT with references and acknowledgements. In a cover letter, please include topic area, correspondence address, phone and FAX numbers, and email address if available. Label tapes with title and authors.

Deadline for submission: 1 February 1993

Notification date: 1 April 1993

Mail tapes and information sheets to:
 Meeting Management
 5665 Oberlin Drive, Suite 110
 San Diego, CA 92121
 Tel. (619) 453-6222
 FAX (619) 535-3880

This conference is sponsored by the IEEE Neural Networks Council, in cooperation with:

SPIE - International Society for Optical Engineering
 IEEE Neural Network Council Member Societies

105

University of Tokyo
Faculty of Engineering
Department of Mathematical Engineering and Information Physics
Bunkyo-ku, Tokyo 113, Japan

May 6, 1992

Prof. Russell Eberhart
The President of IEEE NN Council
Research Triangle Insitute
P. O. Box 12194
Research Triangle Park, NC 27709
U. S. A.

Dear Professor Eberhart :

You may know that we have already started an organizing committee and are preparing for the IJCNN'93-Nagoya. Unfortunately, it is now apparent that we need some change in our plan because of the announcement of the abandonment of the IJCNN agreement between the IEEE NNC and the INNS.

We still intend to hold a truly large international conference in Japan which is at a high-level both academically and industrically, and we have already devoted ourselves to this end. Therefore, being confronted with this difficulty, we have decided to hold an international conference on our own initiative and responsibility.

The Japanese academic societies, JNNS, IEIEC and SICE, will definitely sponsor a big international conference in Nagoya, Japan on October 25 ~ 29, 1993. We hope that it will be held as an IJCNN cosponsored by major international academic societies responsible for developments of this new field.

This letter is formally to solicit the IEEE NN Council for supporting us 1) by cosponsoring the conference and 2) by agreeing to use the name IJCNN. We are now organizing a Fund Raising Committee (chair S. Iwasaki, the Vice President of NTT), and a detailed budget will be presented later. It is our tradition to hold a conference in such a way that we have no financial loss at all, but a very small amount of surplus for safety's sake.

The financial responsibilities of the IEEE NN Council and the INNS were previously planned to be one third each. We can negotiate your share of responsibility if you like. We would appreciate any suggestions from your side on this matter.

We have definitely decided to hold an international conference in Nagoya in October 1993 whatever difficulty we may face. We acknowledge that your cosponsorship will help the conference be truly international and will contribute to the development of this new field.

We would appreciate any suggestions and comments from you. Don't hesitate to ask us any questions. We are intending to publicize the conference at the Baltimore meeting and therefore hope a quick response from you. We can discuss more details later. (The Baltimore meeting is a good opportunity.)

The structure of the conference is as follows.

1. Name of the Conference : IJCNN'93-Nagoya
2. Cosponsoring societies :
The JNNS (lead), The IEICE, The SICE, with some other supporting organizations
(Japanese societies)

The ENNS
The IEEE NN Council
The INNS
3. Organizing Chair : Shun-ichi Amari
Steering Chair : Toshio Fukuda
4. Venue and Date : International Conference Hall,
Nagoya, Japan
October 25 ~ 29, 1993
5. The organizing committee, together with the steering committee, has all the responsibilities of organizing matters such as preparing conference rooms, collecting and reviewing papers, printing proceedings, registration, program formation, tutorials, and so on.

6. Details should be decided later.

Looking forward to hearing good news from you,

Sincerely yours,



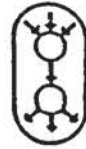
Organizing Chair Shun-ichi Amari
(University of Tokyo)



Steering Chair Toshio Fukuda
(Nagoya University)

SA/yh

p.s. Please forgive us for taking liberty of putting your society as a tentative cosponsoring society in the preliminary announcement distributed in the IJCNN-Baltimore.



NEURAL NETWORKS COUNCIL

Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

May 9, 1992

To: AdCom Members of the IEEE Neural Networks Council
Subject: Nominations Committee Report

The Nominations Committee of the IEEE Neural Networks Council hereby puts into nomination the following slate of candidates for Council officers for 1993.

President

Russell Eberhart
Research Triangle Institute

Vice President

Patrick K. Simpson
ORINCON Corporation

Secretary

Toshio Fukuda
Nagoya University

Treasurer

Roy S. Nutter, Jr.
West Virginia University

No other nominations were received by the Committee members by the May 4 deadline announced at the San Diego AdCom meeting in March.

Sincerely,

A handwritten signature in black ink, appearing to be 'R. Marks II', written over a large, stylized, and somewhat illegible signature.

Robert J. Marks II, Chair
IEEE NNC Nominations Committee

cc: *NNC Nominations Committee Members*
Teck Seng Low
Vince Poor

From JMZURA02@ulkyvx03.louisville.edu Fri May 15 09:30:43 1992
Received: from bashful.u.washington.edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.22) id AA16123; Fri, 15 May 92 09:30:40 -0700
Received: from ulkyvx03.louisville.edu by bashful.u.washington.edu
(5.65/UW-NDC Revision: 2.22) id AA27280; Fri, 15 May
Received: from ulkyvx.bitnet by ulkyvx.bitnet (PMDF #12319) id
Date: Fri, 15 May 1992 12:30 EST
From: JMZURA02@ulkyvx03.louisville.edu
Subject: IEEE Press Distribution of Zurada Book
To: marks@u.washington.edu
Message-Id: <01GK1GWUNRO0CEZZHY@ulkyvx.bitnet>
Status: RO

Dear Bob,

I have asked West, publisher of my "Intro to Artificial Neural Systems" to send you a complimentary copy of the text (785 pp., April 1992). The book was displayed at 1992 ISCAS at San Diego and attracted a lot of attention. Many comments were made to me and the publisher that we finally have a complete, comprehensive text available for neural network courses. I am personally very happy with the enthusiastic welcome for the book.

Dudley Kay, Executive editor of IEEE Press was also present at ISCAS and he approached me (and will approach West) about the distribution/marketing of the book via IEEE Press for IEEE membership. This can, according to him, be done either by the reprint of the book under a new IEEE Press/West sponsorship, if West would agree, or by simply distribution of West's copies through IEEE. I am pretty sure West would accept one of the options, but Kay needs some kind of interest on the part on NNC in this venture. He sees it as a profitable step.

Would it be possible that you contact him with an opinion about the venture? The great benefits for us, NN researchers from the IEEE distribution would be that this would solidify the NN area as academic lecture discipline. I think we are at the verge of establishing academic offerings in neural networks accross this country, or neural networks will become a research discipline. My book made a breakthrough in the sense that it made the field into a unified academic subject, and many people at ISCAS said when they have seen the book, they feel confident about the academic course in NN.

Bob Newcomb, Mohammed Hassoun and many other peple you know have been formal reviewers of the text, and they like it. In case you agree, would you please drop a note to Dudley Kay via email (d.kay@ieee.org) that it would be worth for IEEE to pursue our own distribution to IEEE membership. As Dudley has explained to me, West does not market much outside campuses, so if we do not pursue this avenue, the book may not reach the potential research/teaching/engineering audience.

Thank you for the attention to the matter. Please contact me with any questions you may have. With best regards.
Jacek Zurada

Professor Jacek Zurada
Department of Electrical Engineering
University of Louisville
Louisville, Kentucky 40292

Minutes of the Publications Committee of the NNC

Present:

Stamatios Kartalopoulos, Chair
Wes Snyder, NNC Newsletter Editor
R.J. Marks II, TNN Editor
Funihito Aria (representing Toshio Fukuda, NNC Secretary)

Called to order by Dr. Kartalopoulos at 1:32 PM at the Town & Country Hotel in San Diego on March 8, 1992.

There were no previous minutes for approval.

Agenda

1. Stationary for Associate Editor*
2. Advertising Rates for Transactions*
3. Budget Requests
 - Copy Machine*
 - TNN Editor's Resolution of Conflict of Interest*
4. CD ROM
5. Book Publications Subcommittee
- 6..G.A. Transactions+
7. Computer Society Press & NN's
8. Advisory Board for the TNN Transactions
9. Verbatim Papers
10. Mewsletter Editor report+
11. TNN Editors report*

* = refers to a document in the grey book.

+ = refers to document attached to AdCom minutes

RESOLVED: The Agenda is Accepted

1. **RESOLVED:** Refer to AdCom as distributed in grey book.

2. **Ad Policy & Rate - Proposal:** Charge the maximum of twice the production cost or twenty five percent more that the cost of the newsletter, appropriately rounded.

The Council Treasurer will pursue approval by IEEE.

RESOLVED: Present to AdCom via motion.

3. a. **RESOLVED:** Present Copy Machine Proposal as is in the grey book.

b. **Resolved (w/o participation of Marks)** present to AdCom. Assure the item budgeted in AdCom discussion.

4A: **Background:** The NNC ExCom has approved \$10k for CD-ROM for CD-ROM expenses. Preliminary calculations show the total expense of 1500 CD-ROMS will be of the order of \$15k including part of the one time conference license fee. The liscense fee is considered to be a split with CAS & EMBS.

Motion: The IEEE NNC approves \$15 for production of 1500 CD-ROMS for IJCNN '92. This will be paid for by Council funds and billed to the conference.

Motion: Future conferences shall include the expense for CD-ROM's in their budgets.

RESOLVED: Present this motion to AdCom.

5. **Book Publications Subcommittee**

RESOLVED TO PRESENT TO AdCom: The Publications Committee Chair is tasked to form a Book Publications Subcommittee of the Publications Committee, with the advise and consent of the Council Present.

6..G.A. Transactions (Greffenstette e-mail copy attached).

RESOLVED: Drs. Eberhart, Kartalopoulos & Snyder form an AdHoc Committee to pursue a GA Transactions.

AdCom motion: AdCom endorses pursuance of this action.

7. Computer Society Press & NN's

Motion: The Publications Committee Chair be authorized, with the consent of the Council President, to approve joint sponsorship of Computer Society Press books that deal with topics that intersect the Council's Field of Interest.

RESOLVED: Present this motion to AdCom

8. Advisory Board for the TNN

RESOLVED: The Publications Committee hereby supports Dr. Marks' decision to disband the Executive Advisory Board. Dr. Marks will invite the members to serve as Associate Editors.

9. **RESOLVED:** Proposal for Council Policy: Papers published in conference proceedings will not be published again in Council Transactions. Transactions papers, however, can be enhanced versions of previously published conference papers.

10. Newsletter Editors Report

11. TNN Editor's Report (in grey book)

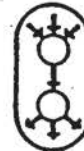
RESOLVED: The Publications Committee endorses the Conflict of Interest Policy drafted by Marks in the Grey book.

Meeting Adjourned at 2:36 by Dr. Kartalopoulos



IEEE

NEURAL NETWORKS COUNCIL



Walter Karplus
Chair, Standards Committee

Mary Lou Padgett
Vice Chair, Standards Committee

PLEASE REPLY TO:
Auburn University
1165 Owens Rd.
Auburn, AL 36830 USA
Tel: (205) 821-2472 or 3488
Fax: (205) 844-1809
mpadgett@eng.auburn.edu

TO THE IEEE NNC ADMINISTRATIVE COMMITTEE:

Report from the Standards Committee Chair, June 7, 1992

It is the purpose of this letter to update you on this activity and to invite you to the upcoming meetings at IJCNN92/Baltimore.

The past year has been a very eventful one for the IEEE-NNC Standards Committee. At IJCNN in Seattle, organizational meetings drew a number of interested people, including some good workers. The year has marked progress in several ways.

The list of interested parties has grown to nearly 400. Email contacts have been made, and notices placed in the IEEE-NNC Connections newsletter. Efforts have been made to collect the work of other, related standards groups and to contact everyone, worldwide, who is interested in neural network standards. This will continue at IJCNN/Baltimore!

A number of informal standards meetings have taken place recently. In October, 1991, the glossary group met with SimTec91 in Orlando. Textbooks and tutorial articles were examined and compared with the draft glossary from Russell Eberhart. Karplus and Padgett held a planning session in Los Angeles in January. Padgett gave a talk on the importance of standards development to international communications, and its contribution to the fair and equitable enforcement of copyright and patent rights in the international forum. Standards development provides a forum for international discussions including definition of public domain material and respect for the property and concepts of others. The clear definition of public domain standards can provide a stepping stone to further development in a field by enhancing communications. Padgett visited UCLA, JPL and an SPIE meeting to discuss standards and other topics and to expand the interest list.

In February, a formal meeting of the standards groups took place at WNN:AIND/92. Karplus held a Standards Coordinating Committee meeting at which it was decided to circulate a draft of the glossary submitted by Russell Eberhart in Seattle. It was also decided to file a Project Authorization Request (PAR) with the IEEE Standards Board for the Glossary and the Performance Measure Methodology Working Groups - this to provide a formal kick-off for the these activities. Standards progress and plans were presented at an open meeting of about 25 people. This group then split into Glossary and Performance Measure Methodology discussion groups. The glossary group discussed means for distributing the glossary and copyright concerns. Some comments were made suggesting modifications of some terms. The Performance Measure Methodology discussion group vigorously debated the formulation of the first objectives. A simple approach was advocated and included in the PAR recently filed. Follow-up discussions resulted in both Glossary and Performance Measure Methodology PAR's being filed. Karplus reported progress to the IEEE-NNC Administrative Committee meeting in San Diego and received support from the group for continued standards efforts.

Later in the spring, Padgett gave seminars at Whirlpool and TAPPI simulation conferences and obtained names and addresses of about 30 interested parties. At the SMC in Orlando in April, the neural networks standards group met jointly with Human Factors and Process Controls Standards groups from SCS. At organizational meetings and at an informal luncheon, similarities in interests with respect to glossary and performance measures were discussed. The draft glossary was examined by several people, and modifications suggested by Padgett were commented upon. Padgett distributed a tutorial and overview article using most of the glossary terms with suggested modifications. Reviewers comments were solicited. This material will be presented at IJCNN/Baltimore.

The Performance Measure Methodology group has also been active via phone and email and technical paper preparation. Robert Shelton will report on progress and suggestions in Baltimore.

Open discussion: Sunday, June 7, 1992 2-5 P.M.

Working Groups: Tuesday, June 9, 1992 7-10 P.M.

Please come with questions, suggestions and offers of help! Send Padgett email or mail with ideas now, if you can, to help us prepare. Watch the conference bulletin boards for exact meeting locations.

SEE YOU THERE!

Sincerely,

Professor Walter J. Karplus
Chair
IEEE-NNC Standards Committee
UCLA, CS Dept.
3723 Boelter Hall
Los Angeles, CA 90024
P: (213) 825-2929
email: karplus@CS.UCLA.EDU



Center for Imaging Systems Optimization
University of Washington, College of Engineering

May 19, 1992

IEEE Neural Networks Council
c/o Mr. Russell Eberhart, President
Biomedical Engineering
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, North Carolina 27709

Dear Russ:

As discussed on the phone, we have arranged to produce a CD-ROM containing the conference proceedings of the 1992 Baltimore IJCNN Conference. 1500 CD-ROM's in clear cover cases will be delivered in your name to the Sheraton Inner Harbor Hotel in Baltimore, Maryland, by Saturday, June 6, 1992.

The CD-ROM will be entitled: "IEEE Neural Networks Council, 1992 Baltimore, IJCNN Meeting, June 7-12, 1992." Instructions for use will be included on the front. The CD-ROM will contain title, author, and abstract in ASCII text and a digitized image of the entire paper for all 620 manuscripts. Users will execute a start-up command and a logo will appear on the screen. The user may then enter in a search string based on author, title, or abstract; the search will produce a list of abstract titles whose text has a match. The user may click on the title name to display the text of title, author, and abstract. Following this, they may choose to display the entire paper.

While there are still some unknowns, the total cost of this project will be approximately \$20,000 due to it being the first time run and including the software licensing fee with the price. I am requesting your society pay \$15,000 toward the CD-ROM production. The remainder will be covered by CREP. I anticipate that the total cost for subsequent CD-ROM publications of similar size will be about \$15,000 through June of 1993.

The second item to discuss is the distribution of the conference data to members that did not attend. I would like to work together with your society to distribute additional CD-ROMS and also make the information available over Internet. For CD-ROM distribution, I think your society could receive a \$5 surplus per disc. This could be applied to the next CD-ROM publication or sent back to your society on a quarterly

basis. The numbers are based on a market price of \$30 per CD-ROM. Assuming a 2 to 1 mark up by the distributors (such as IEEE Press or the book broker) we could sell the CD-ROMs to the distributor for \$15. If CISO needs \$5 per CD-ROM to produce additional discs, we can split the profit -- \$5 to IJCNN and \$5 to CISO. Of course if more CD-ROMs are produced initially, the production costs is less (\$2.50 per ROM). These numbers are estimates; we are talking to Jan Brown of the book broker program to verify costs.

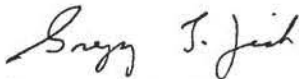
Finally, we are developing an electronic implementation system to put proceedings like this on-line over Internet. This is currently an experiment, and I would like your permission to put the IJCNN proceedings in this system. At this time, my goal is to demonstrate the electronic distribution capability to TAB next spring. If accepted by your and other societies, we can explore setting up a fee for access and possible remote printing. If this fee were established we would then also set up a plan to share any profits.

What I need from you now is:

- 1) Payment of \$15,000 payable to the University of Washington and sent to:
Gregory L. Zick
Director of CISO
College of Engineering, FC-06
University of Washington
Seattle, Washington 98195
- 2) Written acknowledgement of your society's agreement to work together as described above on the resale of CD-ROMS.
3. Written acknowledgement of your society's permission to put the proceedings on our electronic system as a demonstration project.

If you have any questions, please call. I look forward to seeing this first CD-ROM effort being a great success and to working with you in the future.

Sincerely,



Gregory L. Zick

GZ:ms
\\CISO\eberhart

**WHAT
IS THE
BOOK BROKER
PROGRAM ?**

The Book Broker Program was established to handle post-conference sales of conference records from IEEE Society sponsored and co-sponsored conferences. IEEE regional conferences are also included in the program. The conference records are sold to libraries and individuals, and they are also distributed through booksellers.

In general, the Book Broker Program purchases conference records of major conferences. A major conference is defined as follows:

1. Has a substantial number of attendees drawn from a relatively large geographic area.
2. Should be sponsored or co-sponsored by an IEEE Society or Technical Council. The conference may be sponsored by a Region if it is of technical significance and is well attended.
3. Should allow for submission of papers from members and non-members on a worldwide basis. The conference should also have a general call for papers rather than rely heavily on invited papers.

HOW THE PROGRAM WORKS

The Book Broker Program is administered by the Technical Activities Department staff under the general oversight of the volunteer TAB Book Broker Committee.

The Book Broker Program has a standing commitment to supply the records of major conferences to several hundred libraries worldwide. It handles individual post-conference sales on a centralized basis, with prices to members lower than for non-members.

By assuming this function, the Book Broker Program assures wide distribution of conference records. It also relieves conferences of the burden of handling conference records after the conference is completed. In practical terms, it permits conferences to close their books soon after they take place.

In general, workshops, symposia, and tutorials with limited attendance, are not expected to participate in the Book Broker Program. However, the Book Broker Program may make arrangements with the sponsoring entity to acquire a limited number of books for post-conference single copy sales.

Participation in the Book Broker Program adds further value by providing abstracting and indexing of all individual conference papers for inclusion in world wide data bases, thus

assuring full recognition of the material presented in these conferences. Furthermore, centralized marketing and sales of IEEE conference records is a direct service to IEEE members as well as to non-members.

**OPEN ORDER PLAN
OOP**

Several hundred libraries subscribe to the Open Order Plan, which includes one record of each major conference. OOP subscribers also receive a complimentary copy of the Technical Activities Guide (TAG), as well as a copy of the annual Index to IEEE Publications. Currently, OOP conference records are hardbound at no extra cost to subscribers.

The majority of OOP subscribers prepay in advance for the conference records they expect to receive. Thus, there is a contractual relationship between OOP subscribers and the Book Broker Program. It is most important that conferences fulfill their obligations to the Book Broker Program by providing the number of books ordered.

Conference committees should contact the Conference Services office early in the planning cycle, so that the Book Broker can, through this office, indicate the number of conference records required. Once the number of conference records has been agreed upon, it must be viewed as a binding agreement between the conference and the Book Broker Program.

A schedule of payments for conference records is established by the Book Broker Committee, working with the IEEE staff. The schedule is reviewed on an annual basis and adjustments are made as needed. The payments are set to exceed average production costs of the records by a generous margin. In addition to paying for the conference records, the Book Broker Program reimburses the conference for the costs of shipping these records to Piscataway, NJ.

It is the aim of the Program to make participation beneficial to conferences. Thus, conferences should expect to be reimbursed no less than the expenses incurred in printing the additional copies needed by the Program. Although the payments normally exceed production costs by a generous margin, if under unusual circumstances the payment is less than these production costs, then the conference may forward documentation such as printing bills, to be considered for reimbursement of the additional expenses.

The prices that customers pay for conference records are based on market conditions. It also takes into account that the IEEE mission is to disseminate IEEE literature throughout the world.

The operating costs of the Program include acquisition payments for books to the conference, reimbursement to the conference of shipping costs to Piscataway, indexing, providing copies of indexes to OOP subscribers, hardbinding, storage, handling, packaging, and shipping to customers, as well as marketing and administration.

In cases where major conferences are co-sponsored with non-IEEE professional societies, it is the responsibility of the IEEE sponsoring entity to negotiate an agreement with the outside organizations that will allow IEEE to handle the post conference sale of conference proceedings in the same manner as for conferences entirely sponsored by IEEE entities. In some instances, it may be necessary to make exceptions to these guidelines in the interest of maintaining good relationships with these societies. Such exceptions must receive prior approval through the Conference Services office.

WHERE THE PROCEEDS GO

Throughout its history, the Book Broker Program has generated a net surplus. Any surplus in excess of funds needed to operate the Program are turned over to the TAB reserves. These reserves are used to support the TAB budget, as well as to cover expenses associated with special projects that are authorized by TAB.

NEW MARKETING INITIATIVES

There is significant interest in conference records because they provide the most up-to-date information on our rapidly changing technology. To expand the dissemination of this literature, the Book Broker Committee and staff are working with IEEE Marketing to expand the marketing effort to reach more libraries, booksellers, and individuals on a worldwide basis. As a result, sales are expected to increase significantly over the next few years, which in turn will lead to greater benefits to the participating conferences.

A Source of Post Conference Revenue

INTRODUCTION TO THE BOOK BROKER PROGRAM



IEEE Technical Activities
445 Hoes Lane
Piscataway, NJ 08855-1331, U.S.A.
Telephone- (908) 562-3912
Fax-(908) 562-1571

Minutes of the NNC RIG Committee

Tuesday, March 10, 1992: Town & Country Hotel, San Diego. Meeting convened at 12:13.

Present: Rick Alan (Chair), John Yen, Tom Caudell, Marks

No previous minutes required approval.

Background: This AdHoc Committee was formed a two days before at AdCom. The purpose of the meeting is to flesh out action items and ideas for forming a successful RIG program. All ACTION items were by resolution.

ACTION: Chairman Alan was tasked with working with President Eberhart to write the Chairs of all local sections to tell them of the Council's RIG program. The purpose of the letter is to (a) introduce the Section Chairs to the RIG program so they would not be surprised if approached and (b) educate the Chairs what to do if approached about forming a Council RIG.

ACTION: Alan will contact Eberhart about
(a) obtaining copy of policy constraining local Chapters. RIG's will be formed close to this model.
(b) how best to handle money at the RIG level.

ACTION: Alan will work to put together a Council RIG Committee.

ACTION: Marks will supply Alan with the names & addresses of those interested in establishing local RIGS. Most of these are people cc'd on Marks' letter in the grey book concerning this matter.

DISCUSSION: A good candidate for Seattle is John Darvish. Yen said he had good candidates for Houston.

ACTION: Alan would craft an article for publication in the Council newsletter concerning RIG's. Publication should be with the consent of Eberhart.

ACTION: Marks will send Alan a copy of his cartoon book.

ACTION: Alan will coordinate with Eberhart facilities for a meeting of RIG Presidents at the Baltimore ICNN. Refreshment expenses can be okayed by Eberhart.

ACTION: Alan will talk to Eberhart about whether the RIG Committee should be elevated to a Standing Committee of the Council.

Meeting Adjourned at 1:57 PM.

Date: Fri, 29 May 1992 10:34:42 -0400
From: Robert Newcomb <newcomb@eng.umd.edu>
Message-Id: <199205291434.AA07692@medinfo.eng.umd.edu>
To: rce@rti.rti.org
Subject: draft
Cc: newcomb@eng.umd.edu
Status: R

file:\NNC\Schlr2nd.Drf disk:General 03/11/92 RWN 05/29/92
Considerations
Proposal for Neural Networks Council (NNC)
Scholarships for Developing Countries

Yesterday, 05/28/92, I received from Ms. Laura Jobmann of IEEE Headquarters a copy of the IEEE rules for student recognition and support. These are rather elaborate but the essence is that Awards can be set up through conferences for best papers and recognition with there being various award limits. Scholarships can be set up by the NNC to be given out at one of its meetings though general approval is needed; all IEEE awards and scholarships are transnational and are "typically" open to all those who qualify with "no primary award evaluation constraints except educational level and geographical location, although financial need can be used as a secondary criterion." I will bring copies of what Ms. Jobmann sent me to the June 6 meeting. She was unable to get a listing of the countries with blocked currencies, however.

From that information, etc., here is a rough draft (among things needed is a good title for the Awards as well as consideration of institutional awards to university libraries; your inputs are much appreciated):

Neural Networks Council Awards
for Students in Countries with Blocked Currency

The Neural Networks Council (NNC) hereby sets up Awards for students in countries with blocked currencies. The guidelines for these Awards are as follows.

1. Source of funds

The funds for these Awards will be generated in association with a NNC sponsored meeting held within the blocked currency country. The funds may be budgeted in the meeting's budget or come from the meeting's surplus. Among these funds are:

a) Those generated in non-blocked currency outside of the blocked currency country and held at IEEE Headquarters in a "custodial account" specific to the Awards.

b) Those generated in blocked currency and held in the blocked currency country specifically for the Awards by a local IEEE chapter or section.

2. Award nature

The intent of these Awards is to allow students to enhance their studies in IEEE NNC related fields and activities. Therefore, these Awards are available to undergraduate and graduate students in the blocked currency country with the Awards' exact nature being determined to best fit the needs, such determination being made by the associated meeting's Chair (or designate) and the NNC Treasurer (or design-

nate) in consultation with the local IEEE chapter or section Chairman holding custody of the local blocked currency. The Awards must conform to the IEEE Regulations on IEEE Student Recognition and Support. Typical Awards envisioned are:

- a) Book subsidies, including NNC conference proceedings
- b) NNC sponsored meeting registration
- c) Travel expenses to attend NNC sponsored meetings

3. Award procedure

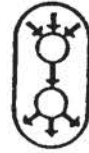
Students will apply to the associated meeting's Chair (or designate) in a manner determined by the meeting's Chair (or designate). Advertisement will be made prior to, during, and after the meeting in a manner best thought by the meeting's Chair (or designate) to inform the maximum number of interested students.

cc: Ms. Laura S. Jobmann of email: l.s.jobmann@ieee.org

&



TRANSACTIONS ON NEURAL NETWORKS
NEURAL NETWORKS COUNCIL



Robert J. Marks II, Ph.D.
Editor-in-Chief

PLEASE REPLY TO:
University of Washington
Department of Electrical Engineering
c/o 1131 199th Street S.W., Suite N
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 543-3842
E-mail: marks@milton.u.washington.edu

May 19, 1992

Russell Eberhart, President
IEEE Neural Networks Council
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Background: I have appointed the following Associate Editors and seek the Council's consent for these appointments.

Motion: The NNC hereby approves the following Associate Editors for the **IEEE Transactions on Neural Networks**.

Professor Igor Aleksander
Imperial College of Science Technology &
Medicine
London, UNITED KINGDOM

Professor Norio Baba
Osaka Educational University
JAPAN

Dr. Hamid R. Berenji
MASA Ames Research Center
Moffett Field, CA

Professor W.L. Dunin-Barkowski
Neurocybernetics Research Inst.
Rostov-on-Don, Russia

Dr. Jenq-Neng Hwang
University of Washington
Seattle, WA

Professor Mohammed Ismail
Ohio State University
Columbus, OH

Dr. Steven K. Rogers
AFIT/ENG
WPAFB, Ohio

Sincerely,

Robert J. Marks, Editor-in-Chief
IEEE Transactions on Neural Networks



POWER ENGINEERING SOCIETY
POWER SYSTEM ENGINEERING COMMITTEE

PAST CHAIRMEN
M. P. Bhavaraju
L. L. Grigsby

SUBCOMMITTEE CHAIRMEN

Application of Probability Methods
N. S. Rau
Energy & Environmental Analysis Div.
Solar Energy Res. Inst.
1617 Cole Blvd.
Golden, CO 80401-3393
Tel: (303) 231-1000
Fax: (303) 231-1997

Computer and Analytical Methods
G. Gross
Pacific Gas and Electric Co.
77 Beale St., Room 1305
San Francisco, CA 94106
Tel: (415) 972-2733
Fax: (415) 972-3530

International Practices
K. N. Zadeh
ZME
1010 N. Batavia, Suite H
Orange, CA 92667
Tel: (714) 744-1981

Demand-Side Management
L. A. Finley
Snohomish County PUD
P. O. Box 1107
Everett, WA 98206
Tel: (206) 347-4390
Fax: (206) 347-4399

Standards
R. A. Bednarik
ABB Power Automation, Inc.
20 Mayfield Ave., Raritan Center
Edison, NJ 08837
Tel: (908) 225-8444
Fax: (908) 225-8360

System Control
A. Bose
Arizona State University
Dept. of EE
Tempe, AZ 85287
Tel: (602) 965-4183
Fax: (602) 965-8296

System Economics
R. H. Sarikas
Foster Assoc. Inc.
1015 15th St., N.W.
Washington, D.C. 20005
Tel: (202) 408-7710
Fax: (202) 408-7723

System Operations
W. R. Prince
Baltimore Gas & Electric Co.
RBC
P. O. Box 1475
Baltimore, MD 21203
Tel: (301) 298-9200
Fax: (301) 298-9356

System Planning
H. Lee Willis
ABB Power Systems, Inc.
777 Penn Center Blvd.
Pittsburgh, PA 15235
Tel: (412) 825-9247
Fax: (412) 825-9286

System Dynamic Performance
R. G. Farmer
Arizona Public Service Co.
P. O. Box 53999, MS-3883
Phoenix, AZ 85072-3999
Tel: (602) 371-6390
Fax: (602) 371-6321

Recognitions Working Group
M. E. El-Hawary
Tech. University of Nova Scotia
Dept. of EE
P. O. Box 1000
Halifax, Nova Scotia, Canada B3J2X4
Tel: (902) 420-7625
Fax: (902) 420-7551

CHAIRMAN
C. W. Gellings
Electric Power Res. Inst.
3412 Hillview Avenue
Palo Alto, CA 94304
Tel: (415) 855-2610
Fax: (415) 855-2954

VICE CHAIRMAN
W. A. Johnson
Potomac Electric Power Co.
P. O. Box 1010
West Bethesda, MD 20827
Tel: (301) 469-5252
Fax: (301) 469-5235

SECRETARY
B. F. Wollenberg
Dept. of Elec. Engrg.
University of Minnesota
200 Union St., S.E.
Minneapolis, MN 55455
Tel: (612) 626-7192
Fax: (612) 625-4583

April 7, 1992

TO: Mr. Russell C. Eberhart
Research Triangle Institute
P. O. Box 12194
Research Triangle Park, NC 27709-2194

FROM: Clark W. Gellings, Chairman 

SUBJECT: PETITION OF THE POWER ENGINEERING
SOCIETY (PES) TO JOIN THE NEURAL
NETWORKS COUNCIL

At long last, PES is prepared to formally submit its application. We assume the conditions for our joining are compelling. Let me know if you need more. Enclosed are:

1. Charter of the Neural Networks Committee, signed by John Pope, Power Engineering Society Chairman.
2. Recent activities of the Power Engineering Society in the area of Neural Networks.

In accord with your bylaws, the two PES representatives we are nominating are:

Professor Robert Fischl
Department of Electrical Engineering
Drexel University
32nd and Chestnut Street
Philadelphia, PA 19104

Mr. Russell C. Eberhart
Page 2
April 7, 1992

Professor M. A. El-Sharkawi
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

We assume they are welcome to attend your June 7, 1992 meeting. They are anxious to receive details on the location and agenda.

Thank you for your help.

CWG.mh.9992.1

Attachments

c: M. El-Sharkawi
R. Fischl
G. Gross
J. Hagge
W. Johnson
J. Pope

Charter of the IEEE Neural Networks Committee (NNC)

Agreement Among the Participating Societies Regarding IEEE Activities in Neural Networks.

SCOPE

The IEEE Neural Networks Committee is a committee of the IEEE Technical Activities Board consisting of IEEE Societies whose purpose is to coordinate technical activities in the interdisciplinary area of Neural Networks and provide the focus for cooperative efforts among TAB entities. The following Societies shall jointly sponsor the IEEE Neural Networks Committee, hereafter referred to as the Committee or NNC:

- Acoustics, Speech, and Signal Processing Society
- Circuits and Systems Society
- Communications Society
- Computer Society
- Control Systems Society
- Engineering in Medicine and Biology Society
- Industrial Electronics Society
- Information Theory Group
- Laser and Electro-Optics Society
- Systems, Man, and Cybernetics Society
- POWER ENGINEERING SOCIETY

The IEEE Neural Networks Committee shall act to foster activities in the area of Neural Networks by forming technical subcommittees, task forces, interest groups, and sponsoring technical workshops, symposia and international conferences. The NNC shall represent the IEEE Technical Activities Board in matters relating to Neural Networks.

THE COMMITTEE

The membership of the NNC shall consist of two delegates from each of the sponsoring Societies. These delegates must be appointed by their respective Societies for two-year staggered terms, and may be reappointed. Each sponsoring organization shall have one equal vote on matters before the NNC.

The committee shall elect biennially a Chairman from among its current membership. The Chairman shall serve as focus for all communications and shall direct, on behalf of

the NNC, the operational matters of the committee. For the duration of the office of Chairman, that individual will not be considered to be a representative of his/her respective Society, therefore able to represent more freely the overall objectives of the NNC. The Chairman's Society will be represented by the other delegate only. On a biennial basis, the NNC shall also elect a Secretary and a Treasurer. In addition to the usual duties regarding minutes, reports, records, etc., the Secretary shall serve as Chairman pro tem in the absence of the Chairman. When the election to office of a Committee member requires an extension of the member's term of appointment by the sponsoring Society, it is expected that such an extension will take place. This extension will be for either one or two years as necessary, to maintain the staggered appointment with the other delegate.

IMPLEMENTATION

This agreement shall be acted upon by the President of each sponsoring Society on behalf of the respective Administrative Committee or Board of Governors. Should any choose not to participate in this agreement, it is understood that their allocated positions on the NNC AdCom and their participation in sponsoring or funding of its activities shall be voided. The letter will be a binding agreement upon the parties when approved by their respective administrative committees and approved by the appropriate IEEE board(s). The original of this letter and of signed letters of transmittal indicating sponsorship agreement from the respective IEEE Societies will become a part of TAB records.

Once the NNC has been established, other IEEE Societies can petition to become members of the Committee. Such Societies must demonstrate that they have been active in the area of Neural Networks in the last two years. A two thirds majority vote is required by the NNC for admission of new members.

A Society can indicate its intent to withdraw from the NNC at any time. However, the withdrawing Society shall continue to be financially responsible for its share of future NNC activities which have been approved by the NNC prior to the date of withdrawal. If a Society withdraws from the NNC, its share in future NNC activities is divided equally among the remaining members.

FINANCIAL MATTERS

All member Societies share equally in the financial responsibilities of the NNC. Budgets requiring NNC approval shall be submitted to the sponsoring Societies at least sixty days in advance of the NNC vote, so that the sponsoring Societies can instruct their representatives accordingly. Budgets will be approved by majority vote of the committee.

The NNC shall be authorized to establish a reserve fund from which it can maintain its own operations. The fund shall be used to make cash advances to conferences sponsored by the NNC and to support the operating expenses of the Committee. The level of this reserve shall be 50% of the approved operating budget (including conference commitments) for the last year's operations. All monies above this level will be

distributed to the sponsoring Societies on an equal basis at the close of the IEEE fiscal year.

AMENDMENTS

Changes in the procedures specified in this letter will be enacted by amendments to be approved by a two thirds majority of the sponsoring Societies.

Date MARCH 31, 1992

Agreed by


(Name) JOHN W. POPE

PRESIDENT
(Office)

POWER ENGINEERING SOCIETY
(Society)

-
1. The Computer Society has apparently chosen not to participate in the NNC (12/21/88, Robert J. Marks II, NNC Chairman pro tem).

**RECENT ACTIVITIES OF IEEE's
POWER ENGINEERING SOCIETY (PES)
IN THE AREA OF
NEURAL NETWORK APPLICATIONS TO POWER SYSTEMS**

In 1989, the Power Engineering Society (PES) established a Task Force (TF) on the "Application of Neural Networks to Power Systems." Since then, the TF has been very active in identifying areas where neural network technology can bring potential solutions to power system problems.

The major activities of IEEE-PES are grouped into the following five categories:

1. Conferences, Special Sessions and Workshops

PES participated in launching a biennial international forum on the "Applications of Neural Networks to Power Systems." The first forum was held in Seattle, Washington in July 1991. The proceedings were printed by IEEE press. The second forum is currently being organized in Yokohama, Japan for April 1993.

With the Circuit and Systems Society, the PES coordinated four ISCAS special sessions: ISCAS '89, ISCAS '90, ISCAS '91 and ISCAS '92.

PES participated in several workshops sponsored by NSF and the Electric Power Research Institute.

2. Panel Discussions

PES sponsored two panel discussions. One entitled, "Potentials and Challenges of Artificial Neural Networks in Power System Applications," was held during the IEEE PES Summer Meeting, July 1990. The other was a follow-up entitled, "Neural Network Application of Power System Engineering," and was held during the IEEE PES Winter Meeting in New York in 1992.

3. Short Courses

PES participated in two short courses on neural networks applications to power systems: during the IEEE Power Industry Computer Applications Conference (PICA '91) in Baltimore, 1991; and during the First International Forum on Applications of Neural Networks to Power Systems in Seattle, 1991.

PES is currently organizing a tutorial for the PES Summer or Winter meeting of 1993.

4. Books and Tutorials

On the basis of the proceedings of the Neural Network Forum held in Seattle, an edited book entitled, "Applications of Neural Networks to Power Systems," was published by IEEE press, 1991. The book catalog number is 91TH0374-9.

PES is currently coordinating efforts to publish a tutorial book by IEEE press.

5. Other Activities

Members of the PES TF are participating in the activities of the IEEE Council on Neural Networks. For example, the Video Tutorial Committee of the Council is chaired by the PES TF chairman. Also, the IEEE Transactions on Neural Networks has associate editors from the PES society.



May 28, 1992

DR. BRUCE D. SHRIVER
1992 PRESIDENT

17 Bethea Drive
Ossining, NY 10562-1620
(914) 762-3251
FAX: (914) 941-9181
COMPMAIL: b.shriver
internet: b.shriver@compmail.com

Dr. Russell C. Eberhart
Research Triangle Institute
P. O. Box 12194
Research Triangle Park, NC 27709

Dear Russ:

On behalf of the IEEE Computer Society Board of Governors, this letter will confirm our conversation with respect to the Computer Society's desire to become an IEEE Neural Networks Council Constituent Society. The society's Board of Governors will vote on a resolution to effect this membership at its meeting in New Orleans on June 5. We anticipate approval at which time I will appoint two society representatives to serve on the Advisory Committee.

We very much appreciate your assistance in this matter. I hope that both society representatives can attend the International Joint Conference on Neural Networks in Baltimore.

Sincerely,

A handwritten signature in cursive script that reads "Bruce D. Shriver/lsb".

Bruce D. Shriver

BDS/lsb

cc: T. Michael Elliott

Headquarters Office

1730 Massachusetts Avenue, N.W.
Washington, D.C. 20036-1903
Phone: (202) 371-0101
FAX: (202) 728-9614

Publications Office

10662 Los Vaqueros Circle
P.O. Box 3014
Los Alamitos, CA 90720-1264
Phone: (714) 821-8380
FAX: (714) 821-4010

European Office

13 Avenue de l'Aquilon
1200-Brussels, Belgium
Phone: 32-2-770-2198
FAX: 32-2-770-8505

Asia/Pacific Office

Ooshima Building
2-19-1 Minami Aoyama
Minato-ku
Tokyo 107, Japan
Phone: 81-3-3408-3118
FAX: 81-3-3408-3553



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



INTERNATIONAL NEURAL NETWORK SOCIETY

March 18, 1992

Suite 300
1250 24th Street, NW
Washington, DC 20037

Russell C. Eberhart
Director, Biomedical Engineering
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709-2194

OFFICERS

President
Paul Werbos
National Science Foundation

President-Elect & Treasurer
Harold Szu
Naval Surface Warfare Center

Secretary
Judith Dayhoff
University of Maryland

BOARD OF GOVERNORS

Shun-ichi Amari
University of Tokyo

James A. Anderson
Brown University

Richard Andersen
*Massachusetts Institute of
Technology*

Lawrence Barto
University of Massachusetts

Gail Carpenter
Boston University

Walter Freeman
University of California

Kunihiko Fukushima
Osaka University

Lee Giles
NEC Research Institute

Stephen Grossberg
Boston University

Mitsuo Kawato
*Advanced Telecommunications
Research Institute*

Christof Koch
California Institute of Technology

Tuovo Kohonen
Helsinki University of Technology

Jart Kosko
University of Southern California

Christoph von der Malsburg
Ruhr-Universität Bochum

David Rumelhart
Stanford University

Bernard Widrow
Stanford University

Dear Dr. Eberhart:

On March 17, 1992 I was informed by Clifford Lau, General Chair of the Baltimore International Joint Conferences on Neural Network (IJCNN) that you had been delivering instructions to Dr. Lau to change the name of the conference from the IJCNN to the International Conference on Neural Networks. This information has been confirmed by the independent communications of Harold Szu and Bernard Widrow with Dr. Lau. I understand from Dr. Lau that he has told you that he will not change the name of the conference without written agreement by both INNS and IEEE.

It is my purpose to inform you in writing that INNS regards any change in the conference title or financial arrangements scheduled for Baltimore in June of 1992 is highly inappropriate and a violation of the contractual rights of INNS. If any change is attempted to be made with the Baltimore conference in terms of the due recognition of INNS throughout all of the conference materials or a change in the financial distribution to INNS of any net profits deriving from the conference, INNS is prepared to use any and every legal avenue available to it to protect its interest. This includes possible action against the IEEE Neural Network Council, yourself personally, all other agents of the IEEE, the conference management services, or volunteers in any capacity.

Sincerely,


Morgan Downey
Executive Director

cc: Clifford Lau
Nomi Feldman
H. Szu
B. Widrow
R. Marks
I. Ingelson
J. Powers
P. Werbos

EXECUTIVE OFFICES

Morgan Downey
Executive Director

Lawrence S. Hoffheimer
General Counsel

tel: (202) 466-4667
fax: (202) 466-3079

E-Mail: 70712.3265@compuserve.com



IEEE

TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TELEX 833-233

OFFICE OF THE STAFF DIRECTOR

(908) 562-3850

March 30, 1992

Mr. Morgan Downey
Executive Director
International Neural Network Society
Suite 300
1250 24th Street, NW
Washington, DC 20037

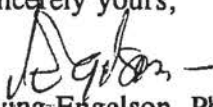
Dear Mr. Downey:

I am writing in response to your letter of March 18, 1992 to Dr. Russell C. Eberhart, President of the IEEE Neural Networks Council, with copy to me and others. I regret that communications on intersociety issues, which should be communicated between volunteer officers on a collegial basis, is degenerating to communication between members of their respective staffs.

However, in order to close the loop regarding the question you raised about the International Joint Conference on Neural Networks (IJCNN), this is to inform you that I have confirmed with Dr. Eberhart that the IEEE Neural Networks Council (NNC) has not made any arrangements, nor does it intend to make any arrangements, to change the name of the conference nor the normal recognition of INNS as it relates to the Baltimore conference. Further, as was stated in a previous letter by Dr. Eberhart to Dr. Werbos, no change in the financial distribution of the INNS surplus is contemplated. In short, the termination of other relationships between IEEE NNC and the INNS does not affect, in any way, the Baltimore conference.

On a separate and personal note, I would like to express to you my deep disappointment in the litigious approach which you expressed in your letter and directed to all parties of IEEE, as well as to others. I understand that you also called Mr. Perry Sensi, a member of my staff, requesting that he should make arrangements for someone at the IEEE to contact you. You should feel free to contact me directly should the need arise.

Sincerely yours,


Irving Engelson, Ph.D.
Staff Director

IE: fek

cc: R. Eberhart
Clifford Lau
Nomi Feldman
H. Szu
B. Widrow
R. Marks
J. Powers
P. Werbos

appropriate periodicals, sponsor IEEE Neural Networks related conferences and conference sessions, sponsor IEEE Press publications, and engage in any other activity within its field of interest. All such actions must be in consonance with the Constitution, Bylaws, and Statements of Policy of the IEEE, with special attention to such aims within the field of interest of the Council as are hereinafter defined.

to --->

ARTICLE I

NAME AND PURPOSE

Section 1. The name of the organization constituted herein shall be the IEEE Council on Computational Intelligence.

Section 2. The purpose of the Council is to advance and coordinate work in the field of Computational Intelligence carried out throughout the IEEE and as such is exclusively scientific, literary and educational in character. In furtherance of the foregoing, the Council may publish appropriate periodicals, sponsor IEEE Computational Intelligence related conferences and conference sessions, sponsor IEEE Press publications, and engage in any other activity within its field of interest. All such actions must be in consonance with the Constitution, Bylaws, and Statements of Policy of the IEEE, with special attention to such aims within the field of interest of the Council as are hereinafter defined.

and from --->

ARTICLE III

MEMBERSHIP OF THE COUNCIL

Section 1. The Council shall be composed of IEEE Societies which have demonstrated a strong interest in Neural Networks and are supporting technical activities in the field. These Societies must agree to share the responsibility for all obligations of the Council, including those financial, in accordance with this Constitution and the Council Bylaws.

to --->

ARTICLE III

MEMBERSHIP OF THE COUNCIL

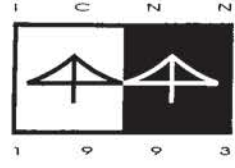
Section 1. The Council shall be composed of IEEE Societies which have demonstrated a strong interest in Computational Intelligence and are supporting technical activities in the field. These Societies must agree to share the responsibility for all obligations of the Council, including those financial, in accordance with this Constitution and the Council Bylaws. and;

4. Items 1, 2 and 3 are contingent on approval of the changes to the Constitution by IEEE TAB.

algorithms, evolutionary programming, fuzzy systems, and hybrid intelligent systems in which these paradigms are contained. Changes to the field of interest may be made with the approval of the IEEE Technical Activities Board.



1993 INTERNATIONAL CONFERENCE ON NEURAL NETWORKS
SAN FRANCISCO, CALIFORNIA, MARCH 28 - APRIL 1, 1993



Dr. Enrique H. Ruspini
General Chair
May 7, 1992

PLEASE REPLY TO:
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park CA 94025, U.S.A.
Tel.: [415] 859-2314
Fax: [415] 859-3735
E.Mail: ruspini@ai.sri.com

Dr. Russell Eberhart
President, IEEE Neural Networks Council
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Dear Russ,

I am writing to you, in compliance with IEEE Policy regarding potential conflicts of interest, to inform you that I am planning to use certain members of my immediate family to provide promotional, mailing, and general clerical services required by the organization of ICNN'93 and FUZZ-IEEE'93.

These services are necessitated by the complex organizational chores associated with the promotion and technical program coordination of two major conferences and will be performed primarily in support of Dr. H. Berenji, Dr. Wei Xu, Dr. Piero Bonissone, and myself. They will be provided at fair market rates (or lower) within the budget guidelines approved by the Neural Networks Council and the IEEE for FUZZ-IEEE'93 and ICNN'93.

Beyond very limited requests for support in various tasks in response to circumstantial needs, the only substantial items currently foreseen are secretarial services to be provided by my wife, Susana, and, graphical design, typesetting, and production to be provided by my son Gabriel. Both Susana and Gabriel are qualified, by training and experience, to competently deliver such services.

I plan to remunerate secretarial services at a rate of \$15/hour, based on prevailing rates for similar work at institutions such as SRI International. I foresee a requirement of 12 hours/week for 14 months for such services.

Promotional design, typesetting, and production tasks are not of a recurring nature and will be provided, as needed, at fair market value or less.

Sincerely yours,

Enrique H. Ruspini
General Chair, FUZZ-IEEE'93 and ICNN'93

\$11k TOTAL

144
24
168
1680
840
2520
12 → *\$30k*

Minutes of the ExCom meeting of the IEEE Neural Networks Council
January 18, 1992, Research Triangle Institute in North Carolina

Attendees: Russ Eberhart, President
Pat Simpson, Vice-President
Roy Nutter, Treasurer
Bob Marks, Past President

Agenda

Approval of Agenda
Approval of Minutes
Singapore Minutes
Conference Call Meeting

Meetings

Seattle IJCNN	Marks
Singapore Conference	Marks
Beijing Conference	Nutter
INNS Relationship	Eberhart
Rostov-on-Don	Eberhart
DC Sheraton Contract	Marks
Nomi's Contract	Marks
FUZZ-IEEE 92	Simpson
FUZZ-IEEE 93	Simpson
World Congress 94	Simpson
1995 meetings	Bezdek
Virtual Reality Conf	Marks
Meeting Proposals	Marks
Inverse Forum	Marks
SP & ENNS	Marks
Meeting Cooperation	Marks
CD ROM	Marks

Publications

Transactions on Genetic	Eberhart
Transactions on VR	Marks
Newsletter	

Awards

Zadeh	Marks
Fuzz Awards	Marks
NN Awards	Marks

Old Business

RIG's	Marks
Equipment & Deprec	Simpson

New Business

Fuzzy Tapes
Equipment
Society Name

Adjourn

APPROVAL OF MINUTES

Singapore:

Nutter distributed a draft of the Singapore minutes and solicited corrections. A final draft will be submitted for approval for the next ExCom.

Conference Call:

The minutes of the conference call of the ExCom (attachment A) were approved after insertion of the date (December 27, 1991).

MEETINGS

Seattle:

Background: Marks recently talked to Lendaris, the Finance Chair of the Seattle IJCNN. The surplus is about \$120,000. The INNS office currently has the check, and has promised to return the money to Lendaris for disbursement. The disbursement and final audit are overdue. Eberhart stated this is in clear violation of the NNC/INNS Agreement. He sent a letter to INNS President, Werbos, saying so (Attachment B)

Beijing:

Background: Nutter met with INNS Executive Director, Downey, in Singapore. The minutes of this meeting are in Attachment C. An Agreement resulting from this meeting is in Attachment D. Eberhart drafted a letter of concern to Marks (Attachment E) concerning Beijing Agreement and the handling of the conference by INNS. Supporting documents include a letter to Dr. Zong Sha, conference chair, from Downey (Attachment E1) stating that he was upset at Sha's choice of hotels, a letter from Sha to Eberhart (Attachment E2) expressing concern over the INNS's dealing with the conference, and two letters from Dr. Amari (Attachments E3 and E4) supporting the local organizer's rights to organize the conference locally. Eberhart's letter to Werbos, requesting return of the control of the conference to the locals, is in Attachment F. Downey's response is in Attachment G. A Beijing call for papers, okayed by Sha, is in Attachment H.

INNS Relationship:

Motion: Due to the violation of written agreements between the INNS and the IEEE Neural Networks Council, the Executive Committee of the IEEE Neural Networks Council endorses immediate termination of all activities with the INNS. (Moved by Marks & seconded by Nutter; approved by

acclamation).

Rostov-on-Don:

Action: Kaplan & Snyder are to prepare a budget for Rostov-on-Don for the AdCom in San Diego. The NSF contact will be followed through for support.

Resolved: The ExCom endorses Council support of Snyder and a Council officer to attend the Conference. Approved by acclamation.

DC Sheraton contract:

Background: We owe the DC Sheraton a meeting.

Discussion: If the agreement between the NNC & INNS is dissolved, a 1993 meeting should be held on one of the coasts. A DC meeting is a good idea. Otherwise, the 95 ICNN could be held there. Resolution will be at AdCom.

Nomi's Contract:

Peri Sensi at IEEE has reviewed the contract submitted by Ms. Nomi Feldman. He had no objection.

Action: Deferred to Meetings Committee (Bezdek)

World Congress 94:

Background: There is no Congress Chair. Charlie Robinson has been approached and said he will know by AdCom in San Diego. Bonisoni is the Chair apparant for FUZZ-IEEE 94. There is no current ICNN Chair. Steve Rogers was recommended.

Action: Simpson will coordintate the contacting of Rogers with Bezdek. Eberhart will contact Grefenstette to see if they want a 94 Genetic meeting. Eberhart will follow up with Robinson.

1995 Meetings:

Action: Refer to Meetings Committee (Bezdek)

FUZZ-IEEE 92:

Background: Marks, as President in 1991, authorized 10k for a second mailing of FUZZ-IEEE 92 publicity. The publicity has been mailed. Nomi has not received the money.

Action: Nutter will call Nomi and tell her that this issue slipped between the cracks. He will offer to wire the funds to the account for her to use.

FUZZ-IEEE 93:

Discussion: Simpson said Ruspini needs seed money.

Action: Refer to Meetings Committee (Bezdek). Recommend budget be brought to AdCom in San Diego by Meetings Committee.

Resolution: 10k of seed money be credited to the FUZZ-IEEE 93 meeting for the purpose of meeting publicity. Approved by acclamation.

Virtual Reality Conference:

Resolved: The ExCom endorses the concept of a 1993 virtual reality

conference. Approved by acclamation.

Action: Marks will work with Caudell & Furness to bring a budget to AdCom.

Meeting Proposals:

Background: Marks reported a large number of people want to host Council meetings.

Action: Simpson will work with Bezdek to formalize procedures for submitting proposals. Marks has CAS & SP meetings documents he will supply to them.

Inverse Forum:

Resolved: The seed money for the forum is to be reduced to \$2500. By acclamation.

Action: Nutter will write Ishimaru to tell him. Ask for camera ready publicity to be sent to newsletter & transactions. Encourage seeking publicity from IEEE Geoscience & Remote Sensing Society.

SP & ENNS:

Background: ENNS may approach other IEEE Societies to get the IEEE logo on their conferences.

Action: Eberhart will make visible ENNS activities at TAB.

Meeting Cooperation:

Background: A number of requests have been submitted to the Council requesting Council cooperation. Simpson says that a number of Council logos & names are being Trademarked.

Action: Refer to the meetings committee.

CD ROM:

Report: Marks has delegated the Council's CD-ROM activities to the capable hands of Stamios Kartalopoulos.

PUBLICATIONS

Trans on Genetic Algorithms:

Action: Simpson will talk to Fogel. Grefenstette will be talked to by Marks and Eberhart.

Trans on VR:

Idea: Special issue of intelligent systems to VR is a possibility.

Action: Marks will talk with Caudell & Furness about this.

Newsletter

Background: ExCom okayed increasing the pages of the issue. If this is to be permanent, it needs to be okayed by AdCom. Simpson suggested regular columns in the newsletters. Marks suggested listings of recent content abstracts. Nutter suggested that the Editor monitor the

electronic newsletters & bulliten board on nn's, fuzz and genetics.
Action: Eberhart will tell Snyder that a permanent page increase of the newsletter needs to be okayed by Pub Committee and AdCom.

AWARDS

Zadeh:

Background: Lotfi Zadeh has been awarded the IEEE Hamming Medal. Marks suggested special recognition at FUZZ-IEEE 92.

Action: Eberhart will coordinate with Bezdek and Dickinson recognition of the award at FUZZ-IEEE.

Fellows:

Action: Eberhart will coordinate with Dickinson contacting of recent IEEE Fellows, and ask where they would like have their accomplishment recognized.

Fuzz Awards:

Background: Dr. Yeh at Texas A&M approached Marks about establishing fuzzy awards. Marks has placed Dickinson & Yeh together.

NN Awards

Background: There needs to be publicity on the Awards.

Action: ExCom members will spread the word. Eberhart will contact Dickinson on this. Simpson volunteered to place an ad on electronic newsletter if given copy.

OLD BUSINESS

Regional Interest Groups:

Background: A number of researchers are interested in establishing RIG's.

Action: Marks will craft a motion for presentation to AdCom for establishing Regional Interest Groups. Russ will send a letter a letter to Nutter authorizing 1k for the Phoenix RIG.

Equipment & Depreciation:

Simpson: Simpson suggests a list be maintained by the Treasurer of Council equipment.

Action: Eberhart will place the depreciation schedule in the Singapore minutes before ExCom for approval.

NEW BUSINESS

Tapes:

(Attachment F)

Resolved: The Council encourages STUDIO taping of up to five of the tutorials at FUZZ-IEEE 92.

Action: Marks will inform El-Sharkawi

Meeting adjourned at 4:35 local time by President Eberhart.

Gleefully Submitted

R. J. Marks II

A handwritten signature in black ink, appearing to read 'RJM', is written below the typed name 'R. J. Marks II'.

Minutes of the Executive Committee Meeting
Conference Call

Meeting called to order 2:10⁴pm Seattle time by R.J. Marks II,
Present: Eberhart, Simpson, Marks, Nutter, Engelson, Fukuda

The Approval of Singapore ExCom minutes were waived. They have not yet been completed.

The meeting was adjourned to executive session.

The meeting was placed back in open forum.

Motion by Eberhart, Second by Simpson, to hold an NNC AdCom meeting on Sunday, January 26, 1992 at the Sheraton Imperial Hotel at the Rayleigh-Durham Airport in North Carolina. Motion passed. (Note: This meeting was subsequently canceled by consensus of ExCom)

FUZZ-IEEE in San Diego was discussed. ExCom confirmed the importance of coordinating the meeting with the San Diego local section.

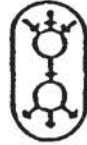
Seattle IJCNN; Simpson voiced concern over the preliminary audit submitted by Lendaris. Lendaris entered the conference at a difficult time and, considering, has probably done an admiral job, said Simpson. Simpson questioned whether Lendaris had been told of all the background. The audit categories did not match that of the budget. The question of seed money was not addressed, as INNS promised. A budget addendum requested by INNS but not approved by the NNC was also not addressed. Simpson will give a further report at AdCom.

Meeting adjourned at 3:55 PM, Seattle time, by Bob Marks.

respectfully submitted,

Bob Marks





B

NEURAL NETWORKS COUNCIL

Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

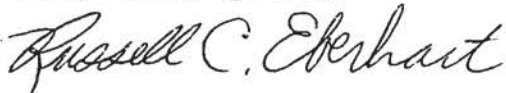
January 8, 1991

Dr. Paul Werbos, President
International Neural Network Society
1250 24th Street, N.W., Suite 600
Washington, DC 20037

Dear Dr. Werbos:

In accordance with the IEEE/INNS Agreement and IEEE Policies, all major conferences must have an audit completed by a major accounting firm and any surplus funds dispersed within six months of the completion of the conference. The Seattle IJCNN ended on July 12, 1991. Please send a copy of the audit and the IEEE share of the surplus funds to the Treasurer of the IEEE Neural Networks Council, Dr. Roy Nutter, by January 12, 1991.

Very truly yours,


Russell C. Eberhart

C

Draft

MEMORANDUM

To: Robert Marks, Chairman
NNC Executive Committee

From: Roy Nutter
IOC Chairman 1991

Subject: IJCNN Beijing
(Discussions held in Singapore)

Date: December 20, 1991

On Tuesday, November 19, 1991, at the IJCNN-Singapore Conference, as Chairman of the INNS/IEEE InterOperating Committee (IOC), I asked Mr. Zong Sha, of the IEEE Beijing Section and Mr. Morgan Downey, Executive Director of INNS, to meet with me to discuss the details of the IJCNN to be held in Beijing, China. The meeting commenced at 1:15 pm with the following people present:

- | | |
|--------------------------|-------------------------------|
| Professor Sha Zong, | IEEE Beijing Section Chairman |
| Mr. Zhou Mongqi, | Chinese ??? Representative |
| Mr. Morgan Downey, | Executive Director of INNS |
| Mr. Greg Talley, | Talley Management |
| Ms. Sylvia C VanLear, | Talley Management |
| and Myself (Roy Nutter), | IOC Chairman. |

1. Mr. Downey reviewed his law firm's relationship with INNS. He noted that the Board of INNS is looking at conferences and internal politics and recommended that Talley Management be hired to work all meetings of INNS.
2. Mr. Talley and Ms. VanLear then described their negotiations with the China World Hotel in Beijing for the IJCNN. They estimated attendance at 800 to 1000 with an additional 200-300 Chinese. (I expressed my concern that this estimate was far too large in my opinion.) They then continued:

RE: Sheraton Great Wall

They noted that the Sheraton Great Wall will be under major renovation next year. It also has only 150 sleeping rooms possible. Poster session would then have to be at the Landmark Hotel. The room rate would be \$55 per night.

3. Professor Sha Zong and Mr. Zhou Mungqi then noted that they had also been pursuing additional arrangements for conference accommodations.

RE: China World

INNS had originally proposed this hotel. Professor Sha noted that "this is one of the most expensive hotels in China at \$85 per night." This rate and the lack of walking distance from lower price hotels would prevent the Chinese from participating in the conference.

RE: Traders

This hotel charges \$55 per night.

4. Mr. Talley then continued that they had contacted 21st Century Hotel and were "negotiating" a contract.

RE: 21st Century

This hotel was \$50 per night and was 5 minutes from the Great Wall. It has 500 rooms with 40 conference rooms seating 150 persons each and a theater that seats 1700 people. There are 800 rooms across the street. He noted that INNS had not signed a contract yet so can still change. There are 800 rooms across the street.

5. Professor Sha Zong then noted that the negotiations for a hotel would be better left to the Chinese since the hotels would all inflate their prices when they must work with a foreign group. He felt that the INNS would get a better deal if they would let the Chinese talk to the Chinese hotels. He indicated that the Chinese delegates would be looking for rooms in the \$15-\$20 per night range and would NOT stay nor even be able to attend if such rates were not available. He indicated that only foreign delegates could afford \$50 per night.
6. Discussion then was held concerning who has what meeting responsibilities. It was noted that this is covered in the IOC agreement between INNS and IEEE. It states that "....." Several proposals were then made between Mr. Downey of INNS and Professor Sha Zong. Some of these are listed below.
 - A. Mr. Zhou Mengqi told Mr. Downey that if INNS could attract 500 foreign visitors it would guarantee \$10,000 surplus for each participant (INNS, IEEE-NNC, and Chinese.) Discussion then ensued and Mr. Zhou noted that the problem is that the conference success must have the cooperation of the Chinese government and the Chinese attendees. Mr. Zhou noted as an example that the 21st Century quoted \$28 per night to the Chinese Beijing Section of the IEEE for the conference. When the 21st Century was contacted by INNS, the quote was \$45 per night and that when Talley contacted them, it went to \$50 per night.
 - B. Mr. Downey noted that this proposal was vastly different from the agreement that he felt had been reached at the Seattle IJCNN between the Chinese and INNS. He noted that the following would be the INNS responsibilities:

INNS: All outside China arrangements
All invited speakers
Meeting place contract
Pay all Banquet, coffee, etc. costs
Pay CNNC \$10/registrant
(Chinese Neural Network Council)
CNNC: All inside travel and arrangements
All inside speakers
Print the proceedings
Technical tours

It was then discussed that all expenses should be shared with all 3 groups.

- C. Mr. Downey then proposed that they had put in \$50,000 seed money and would be willing to:

INNS: Do all arrangements outside China
CNNC: Do all arrangements inside China

- D. Professor Sha Zong then expressed through Mr. Zhou that he would guarantee \$10,000 surplus each to IEEE-NNC and INNS if 500 foreigners participate. If more than 500 foreigners participate and fees were \$325 per person then he would return \$150/ person. The INNS would then assume ALL Chinese registrants as guests. The Chinese would provide all meeting rooms, banquet, coffee breaks, and a one day technical tour to Chinese Research Facilities independent of the number of registrants.

Roy Nutter asked the INNS for the status of the audit for IJCNN-Seattle. Mr. Downey said that he was still waiting on the audit form from the University of Washington.

Mr. Zhou then proposed that the Chinese Neural Network Council would do ALL inside China work and use an inside team for conference management and assure government support.

- E. Mr. Downey was not satisfied with this proposal.
- F. Professor Sha Zong proposed through Mr. Zhou that the Chinese would return \$200 per person if INNS does the tutorials.
- G. General agreement follows. (Note that a signed final agreement is attached.)
INNS: All promotional activities
All credit card and bank fees
All Processing of papers
All auditing expenses
Organize tutorials

Get tutorial speakers, pay fees, etc
All tours outside china
(noted need for approx 250 non-Chinese registrants)
CNNC: Pay Chinese committee expenses
Pay tutorial and plenary expenses for Chinese speakers
All tours inside China

Meeting adjourned for Mr. Downey to contact his Board members to discuss the proposal.

Note: A Final Agreement is as signed the next day. A copy is attached.

November 19, 1991

Offer from CNNC :

1. CNNC does all logistical work inside China and be recognized as the "Organizer".
2. INNS will retain \$200 US per non-Chinese registrant (based on early/member rate) and retain all tutorial income. INNS be responsible for travel of speakers and facilities. CNNC will make arrangements with logistics for tutorials. INNS will collect registration fee from non-Chinese registrants and transfer at least one month before conference.

Registration based on \$325 member/early rate.

INNS keep 1/3 of student registration fee.

3. INNS will perform the following functions :
 1. Non-Chinese promotion.
 2. Non-Chinese abstract and manuscript processing.
 3. Non-Chinese pre-registration processing.
 4. Plan and Organize tutorial program to be finalized by August 30, 1992.
 5. Handle non-Chinese credit and card fees, bank fees and audit expenses, and,
 6. Assume non-Chinese committee expenses.
 7. INNS will provide camera ready copy before conference. ~~at August 1992~~ ~~SA~~ July 31/92
 8. CNNC responsible for in China tour and accompanying persons program.
 9. CNNC provide 100 copies of proceedings for post-conference sale if 200 non-Chinese participants.
4. Subject to approval of INNS and IEEE.

ICNN Beijing Agreement between
Morgan Downey, INNS
Zhang Shaw, CNNC

11/19/91
8:55pm
R. Marks

Offer from CNNC :

1. CNNC does all logistical work inside China and be recognized as the "Organizer".
2. INNS will retain \$200 US per non-Chinese registrant (based on early/member rate) and retain all tutorial income.
3. INNS will perform the following functions :
 1. Non-Chinese promotion
 2. Non-Chinese abstract and manuscript processing.
 3. Non-Chinese pre-registration processing.
 4. Plan and Organize tutorial program to be finalized by August 30, 1992.
 5. Handle non-Chinese credit card fees, bank fees and audit expenses, and,
 6. Assume non-Chinese committee expenses.

\$325 " / "
375 on-site
1 month before conference

~~4. CNNC will guarantee \$10,000 US profit to INNS/IEEE.~~

5. Subject to approval of INNS and IEEE.

INNS responsible for speakers costs
+ Facilities of tutorials
+ committee expenses

INNS will turn over camera ready full text
INNS will collect all fees for non-chinese
INNS will keep 1/3 of student reg fee
Re Tours: Outside China INNS/Inside CNNC

CNNC Recommends 21st Century Hotel
CNNC will be responsible for accompanying person program.

If less than 200 participants, 100 copies of proceedings @ cost.
If more " 200 " " " " " Free.

CNNC will make hotel arrangements for tutorials.

Agreed Subject to approval by IEEE NNC & INNS.

12-12-91

(D)

INTERNATIONAL NEURAL NETWORK SOCIETY

1250 24th Street, N.W.
Suite 600
Washington, DC 20037
Telephone: (202) INN-INNS
Fax: (202) 466-3079

*Karen
copy plus to
Bob Marks
Russ Eberhart
Pat Simpson
Jim Bezdek
Tuls
RJM*

OFFICERS:

President
Paul Werbos
National Science Foundation

Vice President
Judith Dayhoff
University of Maryland

Secretary
James Anderson
Brown University

Treasurer
Harold Szu
Naval Surface Warfare Center

BOARD OF GOVERNORS:

Shun-ichi Amari
University of Tokyo

Richard Andersen
Massachusetts Institute of Technology

Gail Carpenter
Boston University

Leon Cooper
Brown University

Walter Freeman
University of California

Kunihiko Fukushima
Osaka University

Lee Giles
NEC Research Institute

Stephen Grossberg
Boston University

Morris Hirsch
University of California

Christof Koch
California Institute of Technology

Bart Kosko
University of Southern California

Christoph von der Malsburg
University of Southern California

Demetri Psaltis
California Institute of Technology

David Rumelhart
Stanford University

Terrence Sejnowski
Salk Institute for Biological Studies

Bernard Widrow
Stanford University

December 12, 1991

Roy Nutter
Chair
Meetings Committee
Neural Network Council
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

Dear Roy:

Attached is a copy of the agreement we reached with the China Neural Network Council. I presume from our discussions in Singapore that it is acceptable to IEEE Neural Network Council. If this is incorrect, please let me know as soon as possible.

We are revising the budget as per this agreement.

Sincerely,

Morgan Downey
Executive Director

MD:dch

Enclosure

EXECUTIVE OFFICE:

Executive Director
Morgan Downey
General Counsel
Lawrence S. Hoffheimer

MEMBERSHIP OFFICE

P.O. Box 491166
Fort Washington, MD 20744
(301) 839-2114

LETTER OF UNDERSTANDING

1. This letter of understanding reflects an agreement between the International Neural Network Society (INNS), the lead of society for the Beijing-92-IICNN, and the China Neural Network Council. (CNNC).
2. It is agreed that CNNC is responsible for all logistical work inside China and shall be identified as the "Organizer" of the IICNN and that the "Co-Sponsors" of the meeting are:


International Neural Network Society (INNS)
IEEE Neural Network Council
SIGINNS CHINA
IEEE Beijing Section

3. INNS will be responsible for the performance of the following functions occurring outside China:
 - (a) Promotion
 - (b) Abstract and Manuscript processing,
 - (c) Pre-registration processing, including travel,
 - (d) Planning and organizing the tutorial program (to be finalized by August 30, 1992)
 - (e) Handling credit card fees, bank fees and audit expenses,
 - (f) Providing camera-ready copy to CNNC no later than July 30, 1992, and,
 - (g) Travel of non-Chinese committee member (as of November 14, 1991 but not including the International Advisory Committee).
4. CNNC will be responsible, in addition to all other arrangements inside China, for:
 - (a) In-China tours,
 - (b) Accompanying persons program,
 - (c) Providing INNS with 100 copies of Proceeding/ tutorials for post-conference sale, provided that there are at least 200 non-Chinese registrants, and,
 - (d) Handling logistical arrangements for tutorials.

5. INNS will process all non-Chinese registrations. It will retain an amount equal to \$200US vis a vis the early / member fee, all tutorial income and 1/3 of the student registration. The balance shall be transferred to the Chinese Institute of Electronic account at the Bank of China, City Branch not later than one month before the commencement of the conference.

6. The agreement, differing significantly from the agreement existing between INNS and IEEE is subject to approval of other organizations. IEEE Neural Network Council approval was indicated in Singapore on November 20-21, 1991.

Agreed to on the 26th day of November, 1991 in Beijing, China.



Morgan Downey
Executive Director
International Neural
Network Society



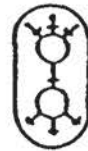
Zong Sha,
Chairman
China Neural Network Council

Harold Syu
Treasurer
International Neural
Network Society

E



NEURAL NETWORKS COUNCIL



Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

December 30, 1991

Prof. Robert Marks, President
Neural Networks Council
Electrical Engineering Dept., FT-10
University of Washington
Seattle, WA 98195

Dear Bob,

I am concerned about the relationship between the IEEE Neural Networks Council (NNC) and the International Neural Network Society (INNS). In particular, I am concerned about events related to the IJCNN planned for Beijing, China, in November 1992. The purpose of this letter is to record my perceptions of some of those events.

Shortly after we arrived in Singapore for the IJCNN held there, we learned that Morgan Downey, working with Talley Management, had negotiated a contract with the China World Hotel in Beijing for the Beijing IJCNN. A conversation with Prof. Sha Zong, Beijing IJCNN Conference Chair and Secretary General for the IEEE Beijing Section, and Mr. Zhou Mengqi, Chief for International Activities, revealed that they were completely unaware of the contract. Sha and Zhou had not been involved; indeed, they had not even been informed. They were upset to learn of the Talley/Downey activities.

The understanding we had been working with was that the Chinese were responsible for everything inside China, and the INNS responsible for everything outside China. (Although this is somewhat an oversimplification, it is accurate for purposes of the issues being discussed here.)

Sha and Zhou informed us that they had been negotiating with other hotels, including the Beijing Continental Grand Hotel and the 21st Century Hotel. They had found that the costs at the China World Hotel were substantially higher than at those with which they were negotiating. In fact, the costs at the China World Hotel were so high that very few, if any, of the Chinese participants could afford to stay there, thus rendering the hotel unacceptable for the IJCNN. We of the NNC supported their conclusion.

A series of meetings was held in Singapore, with Dr. Roy Nutter, Chairman of the IJCNN Oversight Committee (IOC) acting as facilitator. In addition to Dr. Nutter, participants included Sha, Zhou, Downey, and Talley representatives. After two days of negotiations, an agreement was reached that essentially re-affirmed the previous one: it was agreed that the Chinese would be in charge of everything inside China, and the INNS in charge of everything outside of China.

It was learned that Downey and the Talley representatives were travelling from Singapore to Beijing, to join Harold Szu, who was coming to Beijing via Japan. In a response to our question regarding the necessity to send so large a delegation to Singapore and Beijing, they said that their expenses would not be charged to the Beijing IJCNN. It is still unclear to me why so many INNS-related representatives were needed in Singapore and Beijing.

I travelled to Beijing on November 26, arriving at about 2:00 p.m. The next evening, November 27, a dinner was hosted by Prof. Sha at the Beijing Hotel. Dr. Szu attended. Hotel negotiations were discussed, and it was stated that they were still ongoing, with a decision yet to be made. It seemed clear to me, however, that Sha and Zhou were in charge of the negotiations for the hotel. It also seemed clear to me that Szu was fully in accord with their actions.

I next met Prof. Sha in Nanjing on December 3, at the 2nd Chinese National Conference on Neural Networks. We spoke on several occasions. On the evening of the 3rd, for instance, Profs. Sha and Wu came to my hotel to discuss the IJCNN. It was stated at that time that the choice was between the 21st Century Hotel and the Beijing Continental Grand Hotel (a four-star hotel by international standards). I understood that a choice would be made by Prof. Sha within a few weeks.

I returned to the United States on December 8. December 13 was my last day of work at the Johns Hopkins University Applied Physics Laboratory. On December 14, my family and I moved to North Carolina, and on the 16th, I started work as the Director of Biomedical Engineering at Research Triangle Institute.

On December 24th, I received a copy of a letter written by Morgan Downey to Prof. Sha. It was dated December 18, 1991. A copy of the letter is enclosed as Enclosure (1). Downey's letter concerns me for two main reasons. First is the content of the letter. Second is its tone.

The content of the letter clearly indicates that, again, Downey is trying to control the selection of the IJCNN Beijing Conference Hotel, a decision that is the responsibility of Prof. Sha. Reading Downey's letter makes it seem to me that he is disregarding the essence of what he agreed to in Singapore.

The tone of the letter is, in my opinion, condescending and nasty. If

he had been paid to emulate an "Ugly American" he could not, in my opinion, have done a better job. For example, he characterized one of the hotels under consideration by the Chinese as "oppressive, utilitarian". And Downey gave the Chinese until "close of business December 19, 1991" to acquiesce to his edict that the hotel selection be the China World Hotel. If Downey's command wasn't followed, he said, he would "feel compelled to inform the Board of Directors [of the INNS] of the status of the proposed meeting in Beijing and to recommend transferring the meeting to Hong Kong."

It was, of course, impossible and improper for Prof. Sha to comply with Downey's ultimatum. Sha, not Downey, is responsible for the hotel selection. So, Downey, true to his threat, sent an email ballot to all members of the Board of Directors of the INNS, asking their support to move the meeting to Hong Kong. Prof. Amari informed the Chinese of the ballot, and let them know he opposed the proposed move.

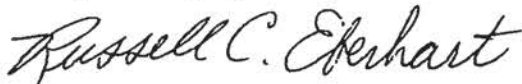
I received a letter from Prof. Sha, dated December 25. A copy of the letter is enclosed as Enclosure (2). Attached to Enclosure (2) are a letter from Prof. Amari to Prof. Sha, and a copy of Prof. Amari's email response to Downey's ballot. Prof. Sha's letter states his position clearly. I support it completely. Prof. Amari's letter and email state his position clearly. I also support Prof. Amari.

Again and again, Downey has acted so as to undermine Prof. Sha and the other Chinese organizers of the Beijing IJCNN. Again and again, continuing on with other instances in the past, INNS representatives have, in my opinion, acted in violation of the IEEE/INNS agreement on co-sponsoring conferences.

Professor Sha and his colleagues have been conscientious and efficient in their efforts to locate the Beijing IJCNN at the best possible location. They have negotiated room rates that are significantly less expensive, both for Chinese and foreigners, keeping the goal of the conference clearly in mind, as stated by Prof. Sha in his letter: "To promote and stimulate the mutual understanding and exchanges between the Chinese scientists and the scientists the world over is our only aim and sincere hope."

Unless control of Beijing IJCNN conference arrangements and activities is decisively returned in writing by January 15, 1992, to General Chairman Professor Sha Zong in accordance with the IEEE/INNS Agreement and IEEE policies, I will recommend to the IEEE Neural Networks Council AdCom that the Agreement be terminated immediately.

Very truly yours,



Russell C. Eberhart

INTERNATIONAL NEURAL NETWORK SOCIETY

E1

1250 24th Street, N.W.
Suite 600
Washington, DC 20037
Telephone: (202) INN-INNS
Fax: (202) 466-3079

OFFICERS:

President
Paul Werbos
National Science Foundation

Vice President
Judith Dayhoff
University of Maryland

Secretary
James Anderson
Brown University

Treasurer
Harold Szu
Naval Surface Warfare Center

BOARD OF GOVERNORS:

Shun-ichi Amari
University of Tokyo

Richard Andersen
Massachusetts Institute of Technology

Gail Carpenter
Boston University

Leon Cooper
University of California
Freeman
University of California

Kunihiko Fukushima
Osaka University

Lee Giles
NEC Research Institute

Stephen Grossberg
Boston University

Morris Hirsch
University of California

Christof Koch
California Institute of Technology

Bart Kosko
University of Southern California

Christoph von der Malsburg
University of Southern California

Demetri Psaltis
California Institute of Technology

David Rumelhart
Stanford University

Terrence Sejnowski
Salk Institute for Biological Studies

Bernard Widrow
Stanford University

December 18, 1991

By FACSIMILE

Professor Zong Sha, Chairman
China Neural Network Council
Chinese Institute of Electronics
Nongzhanguan Nanluy 12
Room 2307
Beijing, 100026
CHINA

Dear Professor Sha:

I am extremely distressed to receive your recent communication which negated the agreement we reached in Beijing.

As you recall, Harold Szu, Sylvia van Laar, Gregg Talley and I travelled to Singapore and Beijing to specifically discuss the hotel location with you. After visiting several hotels in Beijing, including the Beijing Continental Grand Hotel, we felt strongly that only the China World Hotel met the international standards for an IJCNN. We specifically discussed the Beijing Continental Grand Hotel and pointed out that its rooms were on a par with very modest American hotels, such as the Best Western, and that it had an oppressive, utilitarian atmosphere about it. Further, it was significantly removed from the center of Beijing and its tourist attractions.

We conveyed this to you in good faith and expressed our willingness to work with you to assure that, as much as possible, the China World Hotel facility was accessible to the Chinese participants.

Our suggestions included a surcharge on the non-Chinese registration to (a) subsidize the room rate at the China World Hotel companion facility, Traders or (b) provide transportation to the China World Hotel from other locations. Our understanding provided that the China Neural Network Council would receive \$125US per non-Chinese registrant. You will recall that you accepted the need to conduct the conference at the China World Hotel. On November 27,

EXECUTIVE OFFICE:

Executive Director
Morgan Downey
General Counsel
Lawrence S. Hoffheimer

MEMBERSHIP OFFICE

P.O. Box 491166
Fort Washington, MD 20744

Professor Zong Sha
December 18, 1991
Page 2

we all had breakfast hosted by China World Hotel to finalize this agreement at which time Harold Szu and I gave you the signed proposal. Needless to say, our cost and time in making these arrangements with you was very significant.

It is my understanding that, after our delegation left Beijing, you insisted that the Trader's facility had to provide a room and three meals to the Chinese registrants for \$22US per night. Not only is this requirement patently unreasonable, you indicate in your letter that you accepted \$35US per night from the hotel, Asian Games Village, which is part of the Beijing International Convention Centre. It is difficult not to conclude that you have imposed an unreasonable requirement on China World Hotel in the expectation that this would cause negotiations to break down and allow you to proceed with your first choice, the Beijing Continental Grand Hotel. It is also hard to believe that the China IEEE section cannot help to subsidize the travel of your scientists to meet with the Western scientists we had hoped to attract to Beijing.

To disregard our efforts, convene a local meeting and inform me of the results is simply unacceptable. As we discussed in Singapore, the agreement between IEEE and INNS regarding the conduct of IJCNNs is unequivocal in that the General Chair and other chairs are "accountable to the lead society."

Talley Management Group which has a vast amount of experience in conducting international scientific meetings, along with myself, share grave concerns that this recent behavior:

- a. compromises our ability to work with CNNC in conducting this meeting,
- b. will result in significantly reduced registrations from outside of China,
- c. will make it unlikely that the investment of seed money made on behalf of both IEEE and INNS by INNS will be recaptured, and,
- d. will tarnish the international reputation for high quality meetings enjoyed by the IJCNNs.

As is the case with planning such meetings, INNS has reserved back-up space in Hong Kong in the event a meeting in Beijing could not be held. I feel compelled to inform the Board of Directors of the status of the proposed meeting in Beijing and to recommend transferring the meeting to Hong Kong. In all sincerity, I do not wish to take this step, but I need an immediate assurance from

Professor Zong Sha
December 18, 1991
Page 3

you that (a) your negotiations with China World Hotel are continuing and (b) I or Sylvia van Laar at Talley Management Group will be regularly consulted regarding all similar arrangements, such as post-conference tours, etc., before similar decisions are taken. Please keep in mind that we remain extremely flexible to consider financial arrangements which will be satisfactory to both societies and are in the interest of convening an excellent meeting.

I will need such assurances by close of business December 19, 1991.

I look forward to hearing from you.

Sincerely,


Morgan Downey
Executive Director

MD:dch

cc: Dr. Paul Werbos
Dr. Shun ichi Amari
Dr. Harold Szu
Dr. Russell Eberhart
Roy Nutter

E2
Enclosure (2)



中國電子學會

CHINESE INSTITUTE OF ELECTRONICS

Nongzhanguan Nanlu No. 12, Room 2310,
Beijing 100026, China
Tel: 5001144 Ext. 2310
Telex: 210431 CIE CN.

Dec. 25, 1991,

ATT: PROF/ DR. RUSSELL C. EBERHART
DIRECTOR, BIOMEDICAL ENGINEERING PROGRAM
PO BOX 12194 REESEARCH TRIANGLE PARK, NC 27709 2194
AND GENERAL CO-CHAIR
IJCNN'92-BEIJING, CHINA

DEAR PROF/DR. EBERHART,

MERRY CHRISTMAS,

I BELIEVE THAT YOU RECEIVED MY LETTER ADDRESSED TO MR MORGAN DOWNEY ON DEC. 12. NOW I ENCLOSED THE FAX I RECEIVED FROM PROF AMARI AND THE FAX FROM MR MORGAN DOWNEY FOR YOUR REFERENCE.

ACTUALLY, THE PROBLEM IS NOT COMPLEX, BUT VERY SIMPLE. THE ONLY DIVERGENCE BETWEEN MR. MORGAN DOWNEY AND ME, NOT BETWEEN INNS AND CNNC, IS TO HOLD THE IJCNN'92 IN THE CHINA WORLD HOTEL WHICH DOWNEY PREFERRED OR IN BEIJING CONTINENTAL GRAND HOTEL WHERE THE 11TH ASIAN GAME TAKEN PLACE IN 1990, WHICH I STUDIED THE BEST FOR IJCNN'92. ON NOV. 26, WE HAD BREAFAST TOGETHER WITH MR. DOWNEY AND PROF. SZU IN A HARMONIOUS ATMOSPHERE AND REACHED A AGREEMENT THAT THE CHINA WORLD HOTEL IS OUR FIRST CHOICE IF THE HOTEL CAN ACCOMODATE THE CHINESE PARTICIPANTS AT THE ACCEPTABLE PRICE. PROF. SZU AND MR DOWNEY AGREED WITH US AT THIS POINT. TO PROMOTE AND STIMULATE THE MUTUAL UNDERSTANDING AND EXCHANGES BETWEEN THE CHINESE SCIENTISTS AND THE SCIENTISTS THE WORLD OVER IS OUR ONLY AIM AND SINCERE HOPES. THUS, OUR PRINCIPLE OF HOTEL SELECTION IS WHERE THE HOTEL CAN ACCOMODATE BOTH THE CHINESE AND FOREIGN PARTICIPANTS TOGETHER WITH AN ACCEPTABLE PRICES. WE HAVE NO OTHER AIM.

AFTER MR. DOWNEY LEFT BEIJING ON NOV. 26, WE NEGOTIATED WITH CHINA WORLD HOTEL, THEIR FINAL ROOM QUATATION IS HIGH AND WHAT IS MORE THAT THEY CAN NOT ACCOMODATE THE 300 CHINESE PARTICIPANTS. CONTRARY, THE BEIJING CONTINENTAL GRAND HOTEL, A 4-STAR INTERNATIONAL STANDARD HOTEL JUST COULD ACCOMODATE BOTH THE CHINESE AND THE FOREIGN PARTICIPANTS TOGETHER AT A PRICE OF 65 US DOLLARS PER ROOM. I FAXED MR DOWNEY ABOUT THE PRESENT SITUATION AND MADE A COPY FOR YOUR REFERENCE. THE FOLLOWING ADVANTAGES ARE WHY WE SELECTED THE BEIJING CONTINENTAL GRAND HOTEL:

1, BOTH THE CHINESE AND FOREGIN SCIENTISTS CAN STAY AND DINE IN THE SAME HOTEL, EASY FOR EXCHANGE IDEAS

PAGE 2-1



中國電子學會

CHINESE INSTITUTE OF ELECTRONICS

Nongzhanguan Nanlu No. 12, Room 2310,
Beijing 100026, China
Tel: 5001144 Ext. 2310
Telex: 210431 CIE CN.

2, THE HOTEL HAS A MODERN AND INTERNATIONAL STANDARD FACILITIES FOR CONFERENCES, THE INTERNATIONAL CONVENTION CENTRE WITH SPECIAL STRUCTURE FOR INTERNATIONAL CONFERENCES WHERE ALL CONFERENCES OF THE 11TH ASIAN GAMES HELD HERE AND HAD GOOD RESULT. MANY INTERNATIONAL ACTIVITIES ALSO TAKEN PLACE HERE.

3, THERE ARE 5-STAR HOTELS AROUND LIKE THE GREAT-WALL SHERATON AND KUN LUN HOTEL WITH EASY TO REACH DISTANCE AND SHUTTLE BUSES ARE FREE. 3-STAR HOTELS ARE ALSO AVAILABLE AROUND. I DO NOT THINK ALL FOREIGN SCIENTISTS WANT TO SELECT A 5-STAR HOTEL. SO HERE, WE PROVIDE A WIDE RANGE OF HOTEL SELECTION. THAT WILL PROMOTE MORE PARTICIPATION.

I DO NOT QUITE UNDERSTANT THE PROBLEM UP TO TODAY, WHY THE SELECTION OF THE CONFERENCE VENUE, A VERY SIMPLE AND A DEFINITE PROBLEM WHICH SHOULD BE DICIDED BY THE LOCAL ORGANIZATION, CAUSED SUCH STRONG NEGATIVE REACTION FROM MR. DOWNEY ? THE REACTION IS SO STRONG AND SO UN-UNDERSTANDABLE THAT HE HIMSELF ASK AGREE FROM THE GOVERNING BOARD OF INNS TO MOVE THE CONFERENCE OUT OF CHINA, THAT WILL TEAR UP ALL THE WIRTREN AND ORAL AGREEMENT AMONG THE THREEE WORLD LEARNED SOCIESTIES OF THE IEEE, INNS AND CNNC. IT IS REALY UN-UNDERSTANDABLE, I DO NOT WANT TO SEE IT WILL HAPPEN.

ON THE OTHER HAND, WE RESUMED THE NEGOTIATION WITH CHINA WORLD HOTEL AFTER WE RECEIVED MR DOWNEY'S FAX ON DEC 18, AND I FAXED HIM AGAIN ON DEC. 23 REPORTING THE INFORMATION ABOUT OUR NEGOTIATION WITH CWH. AND THE NEGOTIATION IS STILL GOING ON, NOT TERMINATED YET. JUST UNDER THIS STAGE MR. DOWNEY REQUESTED US TO DO, HE HASTILY DISTRIBUTED THE BALLOT FORM TO THE INNS GOVERNING BOARD TO VOTE, I DO NOT THINK THIS ACTION IS USUAL.

ON BEHALF OF THE CNNC, I WOULD LIKE TO EXPRESS OUR HOPE THAT YOU WILL KINDLY CONVEY OUR STAND TO THE GOVERNERS OF IEEE NEURAL NETWORK COUNCIL, LET THEM KNOW WHAT HAPPENED AND MAKE A CORRECT DECISION.

WE ARE DETERMINED TO HOLD AN INTERNATIONAL CONFERENCE ON NEURAL NETWORK IN 1992 IN BEIJING NO MATTER WHAT DECISION INNS WILL MAKE OUT.

LOOKING FORWARD TO HEARING FROM YOU SOON

WITH BEST REGARDS AND MERRY CHRISTMAS

YOURS SINCERELY
ZONG SHA 
VICE CHAIRMAN AND SECRETARY GENERAL, CNNC

DEPUTY SECRETARY GENERAL
CHINESE INSTITUTE OF ELECTORNICS
IEEE BEIJING SECTION

Telephone: (03) 3812-2111
Telex: 2722111 FEUTJ
Telefax: 3-5689-5752
e-mail:
amari@sat.t.u-tokyo.ac.jp

University of Tokyo
Faculty of Engineering
Department of Mathematical Engineering and Information Physics
Bunkyo-ku, Tokyo 113, Japan

December 20, 1991

Prof. Zong Sha
Chinese Institute of Electronics
Nongzhanguan Nanlu 12,
Room 2307
Beijing 100026,
China

Dear Professor Sha :

I have received a very bad news and a ballot form through electric mail addressed to the governing board of INNS. The ballot asked us "yes" or "no" to the motion that we authorize Szu and Downey to move the site of the IJCNN'92. I answered "no".

I do not like the American way of business. I have expressed my view to the governing board, which I will send for your information. I hope we can resolve these difficulties.

Have a nice new year, with warmest wishes,



Shun-ichi Amari

From amari Thu Dec 19 14:58:21 1991
Received: by sat.t.u-tokyo.ac.jp (4.1/6.4J.6)
id AA22980: Thu. 19 Dec 91 14:58:12 JST
Date: Thu, 19 Dec 91 14:58:12 JST
From: amari (Shun-ichi Amari)
Message-Id: <9112190558.AA22980@sat.t.u-tokyo.ac.jp>
To: 70712.3265@compuserve.com, Diana@park.bu.edu, amari,
amari@sat.t.u-tokyo.ac.jp, andersen@MITWCCF@NSF.GOV,
anderson@browncoq.bitnet, btelfe@bagheera.nswc.navy.mil,
dayhoff@ra.src.umd.edu, der@psych.stanford.edu, giles@research.nec.com,
hirsch@math.berkeley.edu, koch@hamlet.caltech.edu, kosko@sipi.usc.edu,
malsburg@yorick.usc.edu, mth9ivn@buacca.bitnet,
ph706009@brownvm.bitnet, psaltis@sunoptics@csvax.cs.caltech.edu,
pwerbos@NSF.GOV, tsejnowski@ucsd.edu, wfreeman@garnet.berkeley.edu,
widrow@isl.stanford.edu
Subject: bad news and need ballot

My vote is "no".

Since I do not know well about the situation, I cannot simply say yes.

I would like to express my general opinion here. It was clear from the beginning that an IJCNN-China is not profitable. If we would think an IJCNN as such, it is an extremely bad choice to have one in Beijing.

I like the way as "Do in Roma as the Romans do". I do not want to stay in a gorgeous American-style hotel in China. I would like to see present China as it is, as well as to enjoy another style traditional culture of China, from which Japanese culture has been influenced a lot as well as from the Western culture.

I think we can hold an IJCNN in this style: All the local arrangements would be operated by Chinese people in their style; We are responsible only for academic subjects. For example, we do not support any traveling expenses and accommodation expenses; we do not prepare any posters but do publicize the meeting only through our Journal "Neural Networks", IEEE journals and others. Tutorials are organized on the volunteer basis. We can minimize our costs in this way, and we have no deficit and no profit.

I am afraid that I have stated too much an idealistic opinion. One point I would like to comment is that Hong-Kong or Taiwan IJCNN does never become profitable, although we can enjoy gorgeous American style IJCNN.

As a person who took the first contact with Chinese researchers, I am relying on them and I hope to go well with them under these difficult circumstances.



NEURAL NETWORKS COUNCIL



F

Russell C. Eberhart
President

PLEASE REPLY TO:
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709 USA
Tel: (919) 541-6606
Fax: (919) 541-8746
E-mail: rce@rti.rti.org

January 3, 1991

Dr. Paul Werbos, President
International Neural Network Society
1250 24th Street, N.W., Suite 600
Washington, DC 20037

Dear Dr. Werbos:

Unless control of Beijing IJCNN conference arrangements and activities is returned, in writing, by January 17, 1992, to General Chairman Professor Sha Zong in accordance with the IEEE/INNS Agreement and IEEE policies, I will recommend to the IEEE Neural Networks Council Executive Committee and AdCom that the Agreement be terminated immediately.

Very truly yours,

Russell C. Eberhart

Russell C. Eberhart

INTERNATIONAL NEURAL NETWORK SOCIETY

G

1250 24th Street, N.W.
Suite 600
Washington, DC 20037
Telephone: (202) INN-INNS
Fax: (202) 466-3079

OFFICERS:

President
Paul Werbos
National Science Foundation

Vice President
Judith Dayhoff
University of Maryland

Secretary
James Anderson
Brown University

Treasurer
Harold Szu
Naval Surface Warfare Center

BOARD OF GOVERNORS:

Shun-ichi Amari
University of Tokyo

Richard Andersen
Massachusetts Institute of Technology

Gail Carpenter
Boston University

Leon Cooper
Brown University

Freeman
University of California

Kunihiko Fukushima
Osaka University

Lee Giles
NEC Research Institute

Stephen Grossberg
Boston University

Morris Hirsch
University of California

Christof Koch
California Institute of Technology

Bart Kosko
University of Southern California

Christoph von der Malsburg
University of Southern California

Demetri Psaltis
California Institute of Technology

David Rumelhart
Stanford University

Terrence Sejnowski
Salk Institute for Biological Studies

Bernard Widrow
Stanford University

January 9, 1992

Russell C. Eberhart
Director, Biomedical Engineering
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709-2194

Dear Mr. Eberhart:

Paul Werbos has asked me to respond to your e-mail message of January 3, 1992 to him.

Your letter demands that "control of Beijing IJCNN conference arrangements and activities" be "returned to Professor Sha Zong".

The agreement between INNS and IEEE Neural Networks Council dated January 31, 1991 states:

"(3) Primary responsibility for operation of each conference shall alternate between the two organizations. The organization with responsibility for a particular conference shall be known as the "lead society"."

"(4) The lead society shall appoint the General Chair with the advice and consent of the President of the other organization. The lead society guarantees the other society complete access to the financial records of the conference at any time."

"(15) The General Chair has primarily responsibility for all aspects of the meeting and is accountable to the lead society with respect to the discharge of that responsibility." (Emphasis added)

As you know the INNS Board of Governors has delegated this responsibility to Harold Szu and myself.

EXECUTIVE OFFICE:

Executive Director
Jan Downey
General Counsel
Lawrence S. Hoffheimer

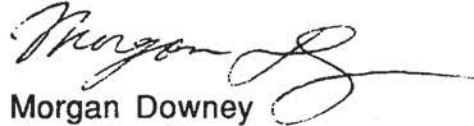
MEMBERSHIP OFFICE

P.O. Box 491166
Fort Washington, MD 20744
(301) 839-2114

Under the terms of this agreement INNS has and will remain as the lead society for the meeting scheduled for November 1992 in China. We intend to fulfill our obligations to both the INNS and IEEE to assure a high quality scientific conference and to work within the agreed upon budgets.

Therefore grounds do not exist for the termination of the agreement between IEEE Neural Network Council and the INNS. However, if the IEEE Neural Network Council takes this action, please advise me immediately so that INNS can make an appropriate response.

Sincerely,



Morgan Downey
Executive Director

cc: Dr. Paul Werbos
Dr. Harold Szu
Professor Shun-ichi Amari

(H)

IJCNN '92 Beijing

CALL FOR PAPERS

1992 International Joint Conference on Neural Networks

Beijing, China
November 3-6, 1992

General Chair
Dr. Zong Sha
Chinese Institute of Electronics
Beijing, China

Sponsored by:
The IEEE Neural Networks Council
The China Neural Networks Council
The International Neural Network Society (INNS)
The IEEE Beijing Section

The International Joint Conference on Neural Networks (IJCNN '92-Beijing) will be held November 3-6, 1992 (Tutorials on November 1-2), in Beijing, China. This conference is intended to provide a forum for dissemination of the latest scientific and technical information in the various fields of Neural Networks. All persons interested in the field of Neural Networks are invited to submit papers to this conference.

General Information:

Complete program, registration and travel information will be mailed in January 1992. For further details you may write or fax:
Dr. Russell C. Eberhart, Director
Biomedical Engineering
Research Triangle Institute
PO Box 12194
Research Triangle Park NC 27709 USA
Phone: 919-541-7123, Fax: 919-541-8746
E-mail: rce@rti.rti.org

TOPICS OF INTEREST

Papers may be submitted for consideration as oral or poster presentations in the following areas:

- | | | |
|-------------------------------|---------------------------|------------------------------|
| Applications | Associative Memory | Biological Models |
| Biomedical Applications | Bio-Molecular Electronics | Electrical Neurocomputers |
| Financial Applications | Fuzzy Logic | Image Processing |
| Mathematical Models & Methods | Hybrid Systems | Optical Neurocomputers |
| Optimization | Neurodynamics & Chaos | Self Organization |
| Vision & Hearing | Robotics & Control | Sensorimotor Control Systems |

Send Papers to:

(In China)
Prof. Yi Zin Zhong
IJCNN '92 Beijing
Beijing Univ. of Posts & Telecom.
Beijing 100088, China
Tel: 201-3388 ext. 2203
Telex: 210431 CIE CN
Fax: 500-5233

(Outside China)

Dr. Russell C. Eberhart, Director
Biomedical Engineering
Research Triangle Institute
PO Box 12194
Research Triangle Park NC 27709 USA
Phone: 919-541-7123, Fax: 919-541-8746
E-mail: rce@rti.rti.org

PAPERS MUST BE RECEIVED BY FEBRUARY 29, 1992.

All submissions will be acknowledged by mail, and accepted papers will be published as submitted.

All papers accepted for presentation will be published in full in the Conference Proceedings, which is expected to be available at the Conference for distribution to all regular Conference registrants. Oral presentations will be given from 8 a.m. to 12N and from 5p.m. to 9 p.m. Afternoons are devoted to poster sessions and exhibits.

Four (4) copies (one original and three copies) of the paper are required for submission. Do not fold or staple the original camera-ready copy. Only complete papers will be considered. Papers must be submitted camera-ready on 8 1/2" x 11" white paper with one inch margins on all four sides. They should be prepared by typewriter or letter-quality printer in one-column format, single-spaced, in Times or similar type style of 10 points or larger, and printed on one side of the page only. (This text is 10 point Times.) All text, figures, captions, and references must be clean, sharp, readable, and high contrast.

FAX submissions are *not* acceptable. There will be a charge for papers exceeding six pages.

Centered at the top of the first page should be the complete title, author name(s), affiliation(s), and mailing address(s). This is followed by a blank space and then the abstract, up to 15 lines, followed by the text. In the accompanying letter, the following information must be included:

- Full Title of the Paper
- Corresponding Author Name
- Mailing Address
- Telephone and FAX Numbers
- Technical Session 1st and 2nd choices
- Presentation Preferred- Oral or Poster
- Presenter Name, Mailing Address Telephone and FAX Numbers
- Audio Visual Requirements

**IEEE****EDUCATIONAL ACTIVITIES DEPARTMENT**

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (908) 981-0060 TELEX 833233 FAX (908) 981-1686

January 13, 1992

To: Mohamed El-Shawkari

Fr: Peter Wiesner *PW*cc: Robert Marks
Russel Eberhardt
Jim Bezdek

Attached is a draft of a proposal to record video tutorials on fuzzy logic.

What I am seeking at this point is an endorsement of the project by the Neural Nets Council and, additionally, financial involvement.

Please let me know what you think.

draft 1/13/92

PROPOSAL FOR FUZZY LOGIC TUTORIALS

The IEEE Educational Activities Dept. proposes to record up to six presenters, many of whom will be presenting tutorials at Fuzz-IEEE 92.

Following the arrangement with Neural Nets Council to record the Pioneer lecturers, we would like to interest the Neural Nets Council to participate in the recording of video tutorials on Fuzzy Logic.

Jim Bezdek, University of West Florida, would identify and invite the presenters. He would be responsible for making sure that the presentations are coordinated for distribution as a series. There is a possibility that the presentations would be recorded in a studio situation in conjunction with Fuzz-IEEE 92 this March in San Diego.

The agreement between IEEE Educational Activities Board and Neural Nets Council would include the following provisions:

1. IEEE Educational Activities Department (EAD) would:

* develop an agreement with the presenters, indicating payment of a \$1,000 honorarium (no royalties) plus out-of-pocket expenses incurred because of videotape arrangements made by IEEE Education.

* videotape the presentations under studio conditions, such as those available at a university or corporation.

* coordinate the production with a local production unit (university or private company) capable of delivering a professional product. This would involve a contract between IEEE Educational Activities and the production entity.

* coordinate the pre-production work of the presenters, such as the preparation of graphics.

* evaluate the production quality of the videotape presentation.

* promote programs through direct mail and appropriate advertisement.

2. The Neural Nets Council would:

* invest up to \$3,000 per program.

* provide technical reviewers for the tape, assuring quality of content.

* assist in promoting videotape through listings in its publications.

3. Royalties based on cost and level of investment

We propose to allow the Neural Nets Council to recover its investment through royalties. The arrangement we propose assumes that Educational Activities is producing and distributing video tutorials as a membership service, seeking to recoup its investment. We are proposing a royalty scheme based on our past sales history and costs. Assuming 175 copies sold (which would take place over a two-year period based on sales of similar programs), we anticipate the average cost of a single program to include:

- \$ 3,500 TV recording and editing
- 1,000 honorarium for presenter
- 800 accompanying print materials
- 1,500 promotion
- 2,000 producer fee

- \$ 8,800 production (subtotal)

- 3,750 duplication, 175 release copies
- 4,500 salaries and overhead, distribution

\$17,050/ program total project cost

Assuming we sell 200 titles (our set break-even point, given our pricing), EAD would charge 99.00/ member and \$119.00 for non-member (most sales are to members), and thereby recover our costs when that many titles are sold. Given these projections, we invite the Neural Nets Council to invest funds in accordance with the the following royalty schedule, enabling the Council to recover costs when 200 copies are sold and to generate surplus revenue thereafter. What follows are some options:

Amount invested by Neural Nets Council per title	Royalties (first 200 copies sold)	Royalties (each additional copy)
\$1,500	\$ 7.50/copy	\$4.00/copy
\$3,000	\$15.00/copy	\$ 8.00/copy

If the Neural Nets Council decides to market the tapes through promotion, forwarding orders to IEEE Education, EAD will pay 10% rebate of the amount collected. Hence, the Council could generate as much as \$24.90 per tape sold at \$99 for the combined royalty and rebate.



FUZZ-IEEE/IFES'95

Secretary

C/O Laboratory for International Fuzzy Engineering Research
Siber Hegner Building 4F, 89-1 Yamashita-cho Naka-ku
Yokohama-shi, 231 Japan
Phone : +81-45-212-8268 Fax: +81-45-212-8255
E-mail : mieko@fuzzy.or.jp

December 21, 1992

Prof. Robert J. Marks II
Department of Electrical Engineering
University of Washington
Seattle, WA 98195
U.S.A.

Dear Prof. Marks II :

We are now in the process on making first call for papers of FUZZ-IEEE/IFES '95" that will be held in Yokohama Japan from March 20 (Mon.) to March 24 (Fri.) in 1995.

We would like to invite you to be a member of the International Program Committee. Your expected main role is to referee the papers submitted.

We would appreciate receiving your answer by Jan. 21, 1993 (cf. attached form). If there is no answer we will recognize that you will accept our proposal. We are hoping for a successful conference with your support.

Sincerely yours,



K. Hirota.
T. Fukuda
Program Co-Chairmen
FUZZ-IEEE/IFES'95

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150

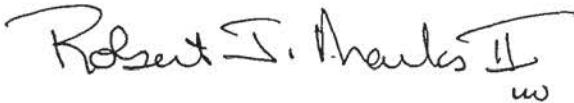
January 3, 1992

Dr. Pierce Wheeler, Managing Editor
IEEE Transactions on Signal Processing
R. D. 3
Chester, NJ 07930

Dear Dr. Wheeler:

Enclosed is a camera ready copy of a call for papers for a Signal Processing Society sponsored workshop. I request it be printed in the Transactions.

Sincerely,

A handwritten signature in cursive script that reads "Robert J. Marks II". There is a small "uw" mark below the signature.

Robert J. Marks II
Professor
Enclosure

Ruth,
Call 1/7 Leave
message.
Special issue
postponed
until May.
You will
receive
galley's to
review -
Called 1/2

Facsimile Cover Page
CALIFORNIA INSTITUTE OF TECHNOLOGY
Department of Applied Physics
FAX Nos: (818)405-0928 or (818)795-1547
there is a problem with the transmission of this FAX
please call Jana Mercado (818)356-4826

Date: 01/20/92
To: PROF. ROBERT J. MARKS FAX No. (206) 543-3842

From: GERT CAUWENBERGHS Telephone No. (818) 356-3283

Number of pages: Cover Page + /

MESSAGE

AS OF NOW, I HAVEN'T RECEIVED A COPY OF
THE GALLEY PROOF OF MY PAPER [TNN #N21(1033)]
YET, WHICH IS GOING TO APPEAR IN MARCH.
PLEASE LET ME RECEINE A COPY A.S.A.P. BEFORE
THE PAPER GOES IN PRINT. THANKS.

GERT CAUWENBERGHS
128-95 CALTECH
PASADENA, CA 91125
FAX (818)405-0928



The Washington Technology Center Facsimile Cover Sheet

FAX number (206) 543-3059

file

To: Name: Bob Marks

Company: UW

Fax number: 543-3842

From: Name: P. Odabashian

Date: 10-5-92 / 10-27-92

Number of pages, including cover:

Comments

*Bob -
Is this a fair summary?*

POD

Inquiries to: The Washington Technology Center, University of Washington,

Fluke Hall, FJ-15, Seattle, WA 98195, USA

General Phone: (206) 685-1920

Internet ID:

*Call Peter,
This looks
fine.
- Bob -
done 10/27/92*

Robert J. Marks II Library Archive



The Washington Technology Center
Office of the Executive Director

University of Washington, 300 Fluke Hall, FJ-15, Seattle, Washington 98195. General phone (206) 685-1920. FAX (206) 543-3059

Monday, October 5, 1992

Dr. Dziem Nguyen, Principal Engineer
BOEING COMPANY
P.O. Box 3707
M/S 6H-FL
Seattle, WA 98124

draft

RE: OPTICAL NEURAL NET MEMORY Patent No. 4,849,940

Dear Dr. Nguyen:

WTC's patent attorney has notified WTC of information on the status of the aforementioned patent. The patent issued in the US Patent Office in 1989 and now has come up for a patent maintenance payment by WTC. A maintenance payment and processing fee is required about once every three and 1/2 years, and runs essentially \$700 each instance.

The invention that the patent protects is the result of research work that Boeing High Technology Center originally sponsored with Dr. Robert Marks, *et al* of the UW, entitled "An Optical Continuous Level Neural Network." You, Dr. Nguyen, were involved with this work while you were at the High Tech Center. Boeing's right to this work is connected contractually to WTC via Purchase Contract LD2709 and LC9753.

Boeing Aerospace, on behalf of High Tech Center, originally directed WTC, in writing, to pursue patent protection for this invention. (see attachment.) If Boeing has an interest in keeping this patent active in the US Patent Office without lapsing, it is customary for the invention sponsor to share in the patent and legal costs associated with the patent application.

I have attached a listing of our costs associated with the application, its prosecution and issuance. I pose that we share alike in the costs of having secured this patent and its maintenance. If you agree, your cost would be half of \$8,492.00 plus half of \$700 to maintain it for another three years. The total portion for Boeing then would be \$4,596.00. If you agree, please let us know.

Sincerely yours,

Peter A. Odabashian, Director
Technology Transfer and External Affairs

draft

attachments
June 1, 1987 letter
Schedule of payments

cc.
Bob Marks, WTC
Fred Dorkin, Boeing, M/S 84-10
Rob Graham, Boeing M/S 8H-35

Logo: "The Raven" ... a Northwest Coast Indian design symbolizing the raven as a bringer of knowledge.
A computer chip and DNA chain are held in the raven's beak. Artist: Bill Holm.



The Washington Technology Center

300 Fluke Hall, FJ-15, University of Washington, Seattle, WA 98195

Headquarters Office
(206) 685-1920
FAX: (206) 543-3059

Thursday, October 29, 1992

Dr. Dziem Nguyen, Principal Engineer
BOEING COMPANY
P.O. Box 3707
M/S 6H-FL
Seattle, WA 98124

RE: OPTICAL NEURAL NET MEMORY Patent No. 4,849,940

Dear Dr. Nguyen:

WTC's patent attorney has notified us of information on the status of the aforementioned patent. The patent that issued in the US Patent Office in 1989 has come up for a patent maintenance payment due January 18, 1993. A maintenance payment and processing fee is required about once every three and 1/2 years, and runs roughly \$700.

The invention that the patent protects is the result of research work that Boeing High Technology Center originally sponsored with Dr. Robert Marks, *et al* of the UW, entitled "An Optical Continuous Level Neural Network". You, Dr. Nguyen, were involved with this work while at High Tech Center. Boeing's right to this work is connected contractually via Boeing Purchase Contract LD2709 and LC9753.

Boeing Aerospace, on behalf of High Tech Center, originally requested WTC, in writing, to pursue patent protection for this invention. (see attachment.) And it is customary for the invention sponsor to share in the patent and legal costs associated with the patent application. This is generally consummated at the point of licensing.

If you would like to keep the patent active without lapsing, but you have no current plans to license, would you be willing to share with us in the cost of obtaining and maintaining the patent on your behalf? I have attached a listing of the expenses incurred with the application, prosecution and issuance. If you agree with sharing, your cost would be half of \$8,492.00 plus one half of \$700 for the maintenance. The total share for Boeing would be \$4,596.00. Please do not hesitate to contact me for any further information.

Sincerely yours,

Peter A. Odabashian, Director
Technology Transfer and External Affairs

attachments
June 1, 1987 letter
Schedule of payments

cc.
Bob Marks, WTC
Fred Dorkin, Boeing M/S 84-10
Rob Graham, Boeing M/S 8H-35

SCHEDULE OF PATENT PAYMENTS

P.O. No. WTC P.O. 254472 affil. to Boeing LD 2709
WTC Case No. 87-6
COJK No. 1-3835
Inventor R.J. Marks II et al.
Title Optical Neural Net Memory

Inv. No.	Inv. Date	Date Processed	Amount	Cumulate
36501	12/31/87	3/22/88	\$7198.57	\$7198.57
37465	1/31/88	3/22/88	125.6	7324.17
38452	2/29/88	3/22/88	24.82	7348.99
39603	3/31/88	6/8/88	8.41	7357.4
41471	3/31/88	7/19/88	1.1	7358.5
46515	10/31/88	1/3/89	179.3	7537.8
48667	12/31/88	2/22/89	115.5	7653.3
51546	1/31/89	4/5/89	234	7887.3
52520	2/28/89	4/5/89	80.8	7968.1
55538	5/31/89	7/17/89	\$523.9	\$8492.00

BOEING ELECTRONICS COMPANY

A Division of The Boeing Company

P.O. Box 24969
Seattle, Washington 98124-6269

June 1, 1987
9-4442-HT87-226

University of Washington
Washington Technology Center
376 Loew Hall, FH-10
Seattle, WA 98195

Attention: Lynn Fleming

Subject: Request to Pursue Patent Application on "An Optical Continuous Level Neural Network"

Reference: a) Purchase Contracts LD2709 and LC9753
b) Letter from L. Fleming to L. Corvi dated May 18, 1987

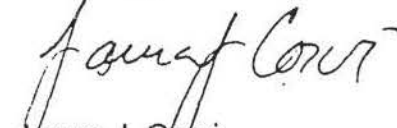
Dear Lynn:

We have reviewed Professor Marks invention disclosure entitled, "An Optical Continuous Level Neural Network." As a result of this review, we request the WTC to pursue patent application on this disclosure. Although Boeing has previously approved several related documents for publication, we request that you withhold further publication related to this disclosure until procedures for patent are completed.

You may contact Fred Dorkin of Boeing Legal Counsel or myself if you have questions or require Boeing's assistance in this process. Mr. Dorkin may be reached at 657-7304.

We appreciate your promptness in notification.

Sincerely,


Laura J. Corvi
Buyer M/S 7J-53
865-3163

cc: Prof. Robert Marks



DEPARTMENT OF ELECTRICAL ENGINEERING
University of Washington

PH.D. GENERAL EXAMINATION

PAYMAN ARABSHAHI

Professor R. Marks, Chair ✓
Professor J. Meditch
Professor T. Caudell
Professor M. El-Sharkawi
Professor J. Choi
Professor E. Fetz
Graduate Faculty Representative

"FUZZY ADAPTATION OF SEARCH PARAMETERS"

Abstract: Many nonlinear optimization algorithms, or classification procedures, utilize heuristics that are in general not well specified and are thus to some degree fuzzy. It is therefore natural to attempt to apply fuzzy set theory to such algorithms and techniques with the hope of improving their performance. We will illustrate parameter adaptation in neural systems by application to the layered perceptron and ART 1. Applications to other search/classification algorithms such as random search and Kohonen networks, as well as performance issues will be discussed.

Friday, October 2, 1992

10:30PM -12:30PM

EEB420

All faculty and students are invited to attend.

University of Washington
Curriculum Review Committee
NEW COURSE APPLICATION

file

Prefix (5 characters max.)	Number
Offered jointly with:	
Prefix (5 characters max.)	Number

College or School <u>Engineering</u>	Department <u>Electrical Engineering</u>	Subdepartment	Date <u>9/23/92</u>
Course Title <u>Computational Neural Networks</u>			Credits <u>3</u>

1. PURPOSE OF REQUEST (Check all that apply)

- Permanent new course, to be offered beginning Spring Quarter 1993
- Temporary new course, to be offered beginning _____ Quarter 19____ through _____ Quarter 19____
- Extension of a temporary course, to be offered _____ Quarter 19____ through _____ Quarter 19____
- Conversion of a temporary course to permanent status, to be effective beginning _____ Quarter 19____
- Permanent CR/NC grading only.
- This application is accompanied by an application to drop an existing course that has the same course number as the course requested here.

2. JUSTIFICATION

Explain why this course is needed.
(Attach additional sheets if necessary.)

Attach a course outline and reading list if this course will be offered for more than one quarter.

This course has been taught in spring quarter three times since 1990. Due to the growing interest of computational neural networks for all disciplines of science and engineering, this course is offered to study the computational neural networks mainly from the perspectives of electrical engineers. More specifically, from perspectives of system theory and optimization. Application to speech/image processing, control, and pattern recognition are also illustrated. The student enrollments and course evaluations of this class in the last three offerings indicated strong demands from EE graduate students as well as non-EE graduate students. Some graduate students extended what they learned in the class or what they researched in the term projects to their master thesis/project or even Ph.D. dissertation topics. This course can well serve as a continuing advanced course in several curricular areas in the EE Department, e.g., for communication/signal-processing students to study the aspect of nonlinear adaptive signal processing, for control/energy students to study the aspect of non-parametric system identification, for electromagnetic students to study the aspects of inverse problems, and for computer engineering students to study the aspect of systematic learning in image/vision processing. Enclosed please also find the enrollments and evaluations of this class in the last three offerings:

Spring 90: total enrollments = 26, evaluation = 3.99
 Spring 91: total enrollments = 45, evaluation = 3.68
 Spring 92: total enrollments = 17, evaluation = 3.83

3. CATALOG DATA

Catalog description (please double space)
(50-word limit, including prerequisites and "Offered jointly with XXX 100" if applicable)

Fundamentals and applications of computational neural networks from the perspectives of system theory and electrical engineering applications: historical review, adaptive parameter estimation, nonlinear optimization, combinatorial optimization, learning rules, neural network models, data clustering and regression, pattern classification, speech recognition, image modeling, nonlinear control, principal component analysis, probability density estimation.

Prerequisite: EE517, EE518, or permission of instructor.

Abbreviated title for transcripts (not to exceed 19 characters, including spaces): NEURAL NETWORKS

Catalog subheading (if any) for this course within your department _____

Names and ranks of probable instructors (Include curriculum vitae for any instructor not now on the University faculty)
JENQ-NENG HUANG (Assistant Prof.), Robert J. Marks II (Professor)

Quarter(s) offered (A, W, Sp, S) Sp

Include in General Catalog
 Include in General Catalog

4. CREDITS AND HOURS

a. Contact and outside hours: 1 credit represents a total time commitment of 3 hours per week of student effort.

Contact hours per week		
Lecture <u>3</u>	Laboratory <u> </u>	3
Quiz section <u> </u>	Studio <u> </u>	
Seminar <u> </u>	Other* <u> </u>	
*Attach explanation and justification for "other" contact hours.		
TOTAL CONTACT HOURS:		
How many additional hours will a student be expected to spend each week in preparation for this course? <u>6</u>		6
TOTAL WEEKLY CONTACT AND OUTSIDE HOURS:		9

b. If variable credit, how will the number of credits awarded be related to the amount of student effort required?

c. How will students be evaluated for credit or grades?

30% Homework, 10% project proposal, 10% project presentation, 50% project report.

5. STUDENTS

a. Anticipated enrollment per quarter: 20

b. Types of students expected (undergraduate majors, undergraduate non-majors, graduate or professional students):

6. RESOURCES

Will additional resources will be required to teach this course, including new space, equipment, computer, library, or other instructional resources? Please explain.

Departmental HP workstations are used for running the neural network simulators installed by Prof. J. N. Hwang

7. JOINT COURSE

List all departments, schools, or colleges participating. Joint course applications require a signature from each unit. (If units from more than one school or college participate, a separate application must be filed by each.)

Name of unit (List the unit responsible for administering the course first)	Course prefix and number	New course or existing course in this unit?	Signature of chair

8. OTHER COLLEGES, SCHOOLS, OR DEPARTMENTS AFFECTED

If this course includes subject matter currently dealt with by any other University units, the originating department must circulate this application for review by those units and obtain the necessary signatures prior to submission. Failure to do so will delay action on this application.

Name of unit	Signature of dean or chair	Recommend approval	Recommended disapproval (attach explanation)	Date

9. APPROVAL

Date _____

Chair of submitting department _____

College Curriculum Committee _____

College Dean _____

file

University of Washington Correspondence

INTERDEPARTMENTAL

DATE: September 12, 1991

TO: ✓ Robert Marks
Electrical Engineering

FROM: Joan O'Brien *Joan*
Televised Instruction in Engineering

A copy of Artificial Neural Systems was sold to Sinostar LTD., Hong Kong. Since this was an international sale we receive only 55% of the revenue.

We just received a request for the course from Eglin AFB and will ship the tapes next week.



UNIVERSITY OF WASHINGTON
SEATTLE, WA

Televised Instruction in Engineering
205 Guggenheim, FS-27
Seattle, WA 98195

September 12, 1991

Donald Baldwin
Office of Technical Transfer, AG-10

Dear Mr. Baldwin:

The following is the information required for distribution of royalty from the sales of a continuing education course through the Televised Instruction in Engineering in the College of Engineering.

Course Sold: Introduction to Artificial Neural Systems

Author: Les E. Atlas
3346 NE 178th Street
Seattle, WA 98155
399-50-0208

Robert Marks II
16515 Ashworth Ave. N.
Seattle, WA 98133
282-48-2721

General Information on sale of course:

Gross Receipts		\$673.25
	Tapes	55.00
	Shipping	4.00
	UW 6.5%	43.70
<hr/>		
Total Expenses		102.70
Net Receipts		570.55

Budget number from which funds are to be transferred: 09-9637

Amounts to be distributed:	Amount	Budget #	Budget Title
Payment to author L. Atlas	\$142.64		
Payment to author R. Marks	142.64		
Payment to College of Engineering	35.65	65-9803	Royalty License
Payment to Dept. Elec Engr	106.98	06-9330	EE dedicated Revenue
Payment to TIE Improv Fund	142.64	09-9638	TIE-Equipment

Please transfer revenue out as 9420-99.
Thank you for your assistance in this matter.

Sincerely,

Joan O'Brien, Director
Televised Instruction in Engineering

Telephone: (206) 685-2242

*Bob: Check this
and return to Kim
C*

THE WASHINGTON TECHNOLOGY CENTER

is pleased to announce a

Seminar on the Application of Artificial Neural Networks and Fuzzy Logic Techniques to VLSI Testing

Thursday, March 26th, 1992

AM 10:00 m. - 1:00p.m.

University of Washington Campus
Faculty Club

Mixed-signal VLSI and system testing, especially during production test, has been an essential factor dictating manufacturing cost and time to market. Standard analog and mixed-signal test techniques are too manpower intensive and slow, even with the assistance of recent mixed-signal testers. Two research programs at the University of Washington, the testing program by Professor Soma and the neural network program by Professor Marks, have worked together since 1990 to investigate applications of neural network and fuzzy logic techniques in mixed-signal test selection to reduce cost while maintaining test quality.

Preliminary results have attracted the attention of DARPA, and this workshop will present these results to the Northwest electronics industry with the goal of building a technology base useful to industry.

Schedule:

10:00-10:30 coffee and getting acquainted
10:30-10:45 introduction and review of status (Soma)
10:45-11:15 neural network techniques and results (Marks)
11:15-12:00 open discussion
12:00-1:00 lunch *(hosted by WTC)*

For More Information Contact:

Professor Robert Marks II: (206) 543-6990
Professor Mani Soma (206): 685-3810

*Need to tell them this
has, use to RSVP.*



**THE WASHINGTON
TECHNOLOGY CENTER**

300 Fluke Hall, FJ-15
University of Washington
Seattle, WA 98195
(206) 685-1920

1. Boeing Computer Services has given Dr. Marks a grant entitled 'Advanced Neural Network Paradymes and Application'. Mr. Payman Arabshahi, a PhD graduate student, is supported through the grant.
2. Dr. Marks has been working closely with Dr. Tom Caudell and Dr. Jai Choi, both of Boeing Computer Services, on intelligent systems using neural networks, fuzzy systems and genetic algorithms. Specific activities include:
 - a. Drs. Caudell and Marks recently served together at the IEEE International Conference on Neural Networks in Singapore. Marks was the USA liaison and Caudell chaired the conference's industrial panel.
 - b. Drs. Caudell and Marks will be serving together in the IEEE Virtual Reality Annual International Symposium (VRAIS) to first be held in Seattly in the fall of 1993.i
 - c. Drs. Caudell, Choi and Marks have filed a patent disclosure with the WTC on an innovative approach to time variant adaptive fuzzy control.

TO: Valerie