



Scanfax

POSTMASTER:
SECOND CLASS POSTAGE
paid at Chicago, Illinois

SCANFAX, 125 S. CLARK ST., CHICAGO, IL 60603

Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • December 1978

CALENDAR OF EVENTS

For reservations call the IEEE office at 236-4609 (unless otherwise indicated)

DEC. 6	"Super Conducting Magnets & Energy Conservation"	Fox Valley Sub.	Elmhurst Inn 933 S. Rt. 83 Elmhurst	Dinner 7:00 PM Meeting 8:00 PM
6	"Unitized Combination Starters"	Power Engrng. Soc. (j w/Indus. Appls. Soc.)	Stouffer's Rest. 32 E. Randolph St. Chicago	Social 11:15 AM Lunch 11:45 AM Program follows
12	Monthly Meeting - ALL WELCOME	IEEE Exec. Cte.	Brown & Root Offices 2001 Spring Rd. Oak Brook	Meeting 7:30 PM
1979				
JAN. 9	Monthly Meeting - ALL WELCOME	IEEE Exec. Cte.	Brown & Root Offices 2001 Spring Rd. Oak Brook	Meeting 7:30 PM
10	"The Engineer & the Law"	Indus.Appls.Soc. (j/ w Power Engrng.Soc. & West.Soc.Engrs.)	Stouffer's Rest. 32 E. Randolph St. Chicago	Social 11:15 AM Lunch 11:45 AM Program follows
16	To be announced	Antennas & Propaga. Soc. & Microwave Theory & Tech. Soc.		
17	"Testing & Diagnosis of Digital Circuit Boards in the Field"	Northwest Sub.	To be announced	

Holiday



Greetings

Dr. Jerome J. Suran, Staff Executive, Technology Operation, Technical Systems and Materials Sector of General Electric Company in Fairfield, Connecticut was elected President of IEEE. Announcement of election results showed that Dr. Suran defeated Irwin Feerst in the fourth contested election held by the Institute. On January 1, 1979 Dr. Suran will succeed Dr. Ivan A. Getting, Consultant and Board member of the Aerospace Corporation in California. Mr. Donald T. Hess, Chairman of the Tellers Committee of IEEE reported that Dr. Suran received 25,851 votes and Mr. Feerst received 17,637.

The new Executive Vice President will be Dr. Leo Young, Staff Consultant of the Electronics Technology Division, Naval Research Laboratory, Washington, D.C. He will succeed Dr. C. Lester Hogan, Vice Chairman of the Board of the Fairchild Camera and Instrument Corporation in Mountain View, California.

There was one Constitutional amendment on the ballot. It called for direct membership election of those officers and board members who now are elected by the annual Assembly in accordance with the current provisions of the Constitution. It failed to receive the required two-thirds vote of the ballots cast.

Others elected to IEEE office include the Director of Region 4, Central states, Peter A. E. Rusche, Executive Engineer of the Consumers Power Company, Jackson, Michigan.

LETTER FROM THE CHAIRMAN

Elsewhere in this publication are the results of the recent IEEE election. We will enter 1979 with a new group of members providing direction and leadership for our organization. It is my privilege to work with the dedicated members of the Chicago Section who maintain the vitality of our local group of almost 5,000 members.

I am pleased to report that we are indeed a vital organization. Due to the arduous efforts of my predecessors we are in a healthy financial position as a result of many conferences, seminars and other activities held in the Chicago area.

Perhaps even more significant than the financial success of these ventures, are the rewards in awareness of advancements in technology gained, as a result of participation in these activities. I feel this is the primary objective of our organization; to provide the opportunity for continued growth in your chosen field. The electrical industry is not immune to the information explosion and the constant, rapid expansion of knowledge requires consistent effort to keep up-to-date.

The Chicago Section has hundreds of outstanding engineers who have volunteered their efforts to help bring this information to the membership, however as we compare the total number of members to those involved, we become aware that a relatively small group is providing most of the effort. Even in the recent election, only about 25% of the membership returned ballots.

In preparing resolutions for the coming year, let us include a firm resolve to maintain and expand our knowledge of our chosen profession, by attendance and participation in your IEEE activities as listed in Scanfax.

My best wishes for the Holiday Season and for success in 1979.

SCANFAX, Dec. 1978—Volume 31 Number 4, SCANFAX is published monthly, except July and August by the Chicago Section, Institute of Electrical and Electronic Engineers for the information of its members. Business office is at 125 S. Clark St., Chicago, Illinois 60603, telephone number (312) 236-4609. Subscription rate for IEEE members collected in dues, \$1.50; for others, \$3.00 per year. Second-class postage paid at Chicago, Illinois.

Tom Traub, Managing Editor
Commonwealth Edison Company
(312) 294-2703

Ed Osterberg, Editor
Illinois Bell Telephone Company
(312) 727-5405

Eleanore Burda, Copy Manager
IEEE Office
(312) 236-4609

Change of Address

A change of address form is included in each issue of SPECTRUM. Your local post office will also supply you with cards; mail to Roseann Schulz, Member Services, IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854. Include your SPECTRUM mailing label if possible. We cannot forward this information for you, so please do not send it to the local office.



1978-79 GROUP/SOCIETY OFFICERS & COMMITTEE CHAIRMEN

Antennas & Propagation Society/Microwave Theory & Techniques Society

Chairman — Daniel Schmidt — Andrew Corporation, 10500 West 153rd Street, Orland Park 60462 (office) 349-3300, ext. 496
Vice Chairman — Professor Martin Plonus — Northwestern University, Department of Electrical Engineering & Computer Science, Evanston 60201 (office) 492-3445
Secretary — Charles Pocius — Andrew Corporation, 10500 West 153rd Street, Dept. 688, Orland Park 60462 (office) 349-3300, ext. 445

Communication Society

Chairman — Bernard Pepping — Wescom Switching, Inc., Box 1458, Downers Grove 60515 (office) 963-3300, ext. 228
Vice Chairman — Ken Trojnar — Illinois Bell Telephone Company, 225 West Randolph Street, Chicago 60606 (office) 727-3601
Secretary — Allen Kaphenapt — GTE Automatic Electric Laboratories, Inc., 400 North Wolf Road, Northlake 60164 (office) 681-7100, ext. 4872

Fox Valley Subsection

Chairman — Charles Brigham — Illinois Bell Telephone Company, 225 West Randolph Street, Room 25A, Chicago 60606 (office) 727-4852 (residence) 668-7257
Vice Chairman — Alan Seagren — Commonwealth Edison Company, 3500 North California Avenue, Chicago 60618 (office) 267-8131, ext. 368 (residence) 690-0850
Secretary — Mark Palasz — Furnas Electric Company, 1000 McKee Street, Batavia 60510 (office) 879-6000 (residence) 879-1135
Treasurer — Ed Barrett — International Harvester Company, 75600 County Line Road, Hinsdale 60521 (office) 867-3868 (residence) 815: 886-2257

Industry Applications Society & Industrial Electronics Control Instrumentation

Chairman — N. R. Orszula — Sargent & Lundy, 55 East Monroe Street, 25H26, Chicago 60603 (office) 269-2094 (residence) 629-3184
Vice Chairman — Lance Hillstrom — Weldy-Lamont Associates, Inc., 1008 East Northwest Highway, Mount Prospect 60056 (office) 777-8575
Secretary — Mike Donovan — Griffin Pipe Products Company, 2000 Spring Road, Oak Brook 60521 (office) 654-2500
Treasurer — George Thomas — Contemporary Control Systems, Inc., 935 Curtiss, Downers Grove 60515 (office) 963-7070

Northwest Subsection

Chairman — Robert Scheman — American Telephone & Telegraph Company, 10 South Canal Street, Room 22W, Chicago 60606 (office) 855-8696 (residence) 437-5417
Vice Chairman — George Stout — GPE Controls, 6511 Oakton Street, Morton Grove 60053 (office) 966-4000 (residence) 827-8509
Secretary — Norman Phoenix — EXTEL Corporation, 310 Anthony Trail, Northbrook 60062 (office) 564-2600, ext. 394 (residence) 631-4917
Treasurer — Ralph Gruetzmacher — Magnaflux Corporation, 7300 Lawrence Avenue, Chicago 60656 (office) 867-8000, ext. 362 (residence) 453-0791
Arrangements Chairman — Marjorie Axler — Northrop Corporation, Defense Systems Division, 600 Hicks Road, Rolling Meadows 60008 (office) 259-9600, ext. 385 (residence) 882-8412

(The officers and committee chairmen of the Power Engineering Society and Reliability Group will be published in the upcoming January 1979 issue of Scanfax.)

COMPUTER GRAPHICS

A Study for Designers of Printed, Integrated and Hybrid Circuits

This comprehensive report can save you hundreds of hours, thousands of dollars.

The 450-page study provides surveys and evaluations of interactive systems, hardware, software and services. Trends are documented ranging from automated placement and routing of PCBs and hybrid circuits to IC design systems. Analyses are provided of design requirements, products, cost effectiveness and system selection.

Independent, professional evaluations of interactive CAD systems and software. Up-to-the-minute market and technology status and forecasts. 50 illustrations and graphs.

For descriptive brochure, call 617-237-2089 or write:

INTERNATIONAL TECHNOLOGY MARKETING

120 Cedar Street
Wellesley Hills, MA 02181

digital systems house

INCORPORATED

143 First Street • Batavia, Illinois 60510 • (312)879-1008

Software engineers specializing in:

- Real time system design and implementation
- RSX-11M* and RT-11* system software
- Minicomputer and microprocessor software

*TRADEMARK OF DIGITAL EQUIPMENT CORPORATION

MICROPROCESSOR COURSES Winter/Spring '79 Series starts in early February.

- Fundamentals
- 6800 Applications
- 8080/8085 System
- 8080 Programming
- 6502 VIM/SYM Hands-on

In-plant series available.

For information, call Tom
Dunsheath, 724-8536

or write:

Northwest Technical Center, Inc.
1155 Waukegan Road (Rear)
P. O. Box 200
Glenview, Illinois 60025



OF SCHAUMBURG

"THE PERSONAL COMPUTER STORE"

HRS: 11-9 MON, WED, THU, FRI
4-9 TUES
11-6 SAT
CLOSED SUN

1612 E. Algonquin Road
Schaumburg, Illinois 60195
Phone: (312) 397-8700

—ADV—

ERIC HERZ OF SAN DIEGO NEW GENERAL MANAGER OF IEEE

Mr. Eric Herz of San Diego, California, Senior Project Engineer of the General Dynamics Convair Division has been named General Manager of IEEE. He will assume this new post on January 1, 1979 succeeding Dr. Richard M. Emberson who plans to retire in 1979.

Mr. Herz has been active in many IEEE regional and technical affairs and, at present, is Vice President for Technical Activities of the Institute, having served as Division III Director in 1976-77. He has also been a member of the Board of Directors of IEEE from 1976 to the present.

Incumbent General Manager, Richard M. Emberson will continue on the IEEE staff as Consultant until his retirement in 1979.