

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 • January 1979

CALENDAR OF EVENTS

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

COPY DEADLINE: FIRST OF THE MONTH

HAPPY NEW YEAR!

1979

N. 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"	Power Engrng. Soc. (j w/Indus.Appls.Soc. & West. Soc. Engrs.)	Stouffer's Rest. 32 E. Randolph St. 2nd Fl., Chicago	Social 11:15 AM Lunch 11:45 AM Program follows
16	To be announced	Antennas & Propaga. Soc. & Microwave Theory & Tech. Soc.		
17	"Field Test & Repair of Circuit Boards"	Northwest Sub.	7 Stars Rest. 111 E. Higgins Rd. Elk Grove Village	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
FEB. 11	Ladies Night Valentine Dinner- Theater Party	Power Engrng. Soc. (j/w Fox Val. Sub.)	Pheasant Run Pla'hse Rt. 64 St. Charles	Dinner 5:30 PM Theater 7:30 PM
13	Monthly Meeting - ALL WELCOME	IEEE Exec. Cte.	Brown & Root Offices 2001 Spring Rd. Oak Brook	Meeting 7:30 PM
14	Ladies Night "Personal Computers"	Indus. Appls. Soc. & Indus'l Electronics Control Instrumenta.	Nielsen's Village 7330 W. North Ave. Elmwood Park	Social 5:30 PM Dinner 6:15 PM Meeting 7:15 PM
14	"Nuclear Waste"	Power Engrng. Soc.	Stouffer's Rest. 32 E. Randolph St. 2nd Fl., Chicago	Social 11:15 AM Lunch 11:45 AM Program follows

U.S. POSTAL SERVICE
STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION
(ACT OF AUGUST 12, 1970: SECTION 3685, TITLE 39, UNITED STATES CODE)

1. Title of publication: Scanfax
2. Date of filing: November 10, 1978
3. Frequency of issue: Monthly, except July and August. Subscription payment \$1.50 members; \$3.00 non-members.
4. Location of known office of publication: 125 S. Clark St., Room 1545, Chicago, Ill. 60603.
5. Location of the Headquarters or general business offices of the publishers: 125 S. Clark St., Room 1545, Chicago, Ill. 60603.
6. Names and addresses of publisher, editor, and managing editor; Publisher, Institute of Electrical and Electronics Engineers, 125 S. Clark St., Room 1545, Chicago, Ill. 60603; Editor, E. K. Osterberg; Managing Editor, T. P. Traub, 125 S. Clark St., Room 1545, Chicago, Ill. 60603.
7. Owner (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the

name and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given.) Institute of Electrical & Electronics Engineers, Inc. — Chicago Section, 125 S. Clark St., Room 1545, Chicago, Ill. 60603.

8. Known bondholders, mortgages, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages or other securities: None.

9. For optional completion by publishers mailing at the regular rates (Section 132.121, Postal Service Manual).

10. For completion by nonprofit organizations authorized to mail at special rates (Section 132.122, Postal Manual). The purpose, function, and nonprofit status of this organization and the exempt status for Federal income tax purposes have not changed during preceding 12 months.

11. Extent and nature of circulation	Average No. Copies Each Issue During Preceding 12 Months	Actual No. of Copies of Single Issue Published Nearest to Filing Date
A. Total number copies printed (net press run)	5,100	5,100
B. Paid circulation		
1. Sales through dealers and carriers, street vendors and counter sales	3	3
2. Mail subscriptions	4,925	4,925
C. Total paid circulation	4,928	4,928
D. Free distribution by mail, carrier or other means, Samples, complimentary, and other free copies	50	50
E. Total distribution (sum of C and D)	4,978	4,978
F. Copies not distributed		
1. Office use, left-over, unaccounted, spoiled after printing	122	122
2. Returns from news agents	0	0
G. Total (Sum of E & F — should equal net press run shown in A)	5,100	5,100

TRADE SECRETS; HOW THEY AFFECT THE ENGINEER

Mr. Anthony S. Zimmer, Patent Attorney will speak on "The Engineer and the Law" at the Power Engineering Society meeting (joint with the Industry Applications Society and the Western Society of Engineers) on Wednesday — January 10, 1979.

Mr. Zimmer will discuss the developments of the law relating to trade secrets and, in particular, how they affect the engineer; what is a trade secret; how it developed; how it is to be protected. He will also review the rights of the owner of a trade secret. Also covered will be the matter of non-competition agreements and the effects of those agreements on engineers as interpreted by the Courts. Highlights of the Copyright Act of 1976, which went into effect January 1, 1978 will also be discussed and how some of the changes affect engineers.

This informative meeting will be held at Stouffer's Restaurant, 32 East Randolph Street (northeast corner of Wabash and Randolph Streets), 2nd floor, Chicago. Social period 11:00 AM; luncheon 11:45 AM; program to follow. Price is \$6.50 per person.

ANNUAL VALENTINE DINNER-THEATER PARTY PLANNED

The Power Engineering Society (joint with the Fox Valley Subsection) will hold its annual Valentine Dinner-Theater Party on Sunday — February 11, 1979 at Pheasant Run Playhous in St. Charles. The price will be \$14.00 per person; \$28.00 per couple. Dinner will be held at 5:30 PM with a cabaret type musical review at 7:30 PM. Additional details will be available later.

SCANFAX, Jan. 1979—Volume 31 Number 4, SCANFAX is published monthly, except July and August by the Chicago Section, Institute of Electrical and Electronics 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 SPEC-TRUM. 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

Power Engineering Society

Chairman — Dave Schroeder — Sargent & Lundy, 55 East Monroe Street, Chicago 60603 (office) 269-2201 (residence) 837-5123
Vice Chairman — A. Don Taylor — Sargent & Lundy, 55 East Monroe Street, Chicago 60603 (office) 269-2038 (residence) 729-4684
Secretary/Treasurer — Jim Keller — Harza Engineering Company, 150 South Wacker Drive, Chicago 60606 (office) 855-7284 (residence) 791-3491
Program Chairman — Carl Schwarz — Sargent & Lundy, 55 East Monroe Street, Chicago 60603 (office) 269-2030 (residence) 687-0492
Arrangements Chairman — H. McNeer — McGraw-Edison Power Systems, P. O. Box 88, Elmhurst 60126 (office) 287-6781
Publicity Chairman — Ken Rooney — Commonwealth Edison Company, One First National Plaza, 35 FN West, Chicago 60690 (office) 294-8293 (residence) 452-8915
Member Services Chairman — William McCarty — Gould Inc., Electrical Systems Group, 10 Gould Center, Rolling Meadows 60008 (office) 640-4631 (residence) 815: 728-0608
PES Volunteers Chairman — Mark Bailey — Commonwealth Edison Company, One First National Plaza, 36 FN West, Chicago 60690 (office) 294-8437 (residence) 274-1761
Seminars Chairman — Hank McGreer — Harza Engineering Company, 150 South Wacker Drive, Chicago 60606 (office) 855-7503

Reliability Group

Chairman — Ray Schirmer — ITT Telecommunications, 2000 South Wolf Road, Des Plaines 60018 (office) 297-5320, ext. 407
Vice Chairman — Hugh Edfors — GARD Inc., 7449 North Natchez Avenue, Niles 60648 (office) 647-9000
Secretary — Paul Clawson — Revere Electric Supply Company, 2501 West Washington Boulevard, Chicago 60612 (office) 738-3636
Treasurer — Stanley Anderson — Commonwealth Edison Company, P. O. Box 767, Chicago 60690 (office) 294-2783

HENRY MALEC LEAVES CHICAGO

Mr. Henry Malec, Chairman of the Chicago Section Reliability Group has left Chicago and is now employed with ITT Telecommunications in Shelton, Connecticut. Vice Chairman of the Reliability Group, Ray Schirmer has accepted the chairmanship. Mr. Schirmer will fill Henry Malec's unexpired term and will also serve as Chairman for 1979-80. Membership Chairman, Hugh Edfors has accepted the office of Vice Chairman. He will fill the unexpired term of Ray Schirmer and will also serve as Vice Chairman for 1979-80.

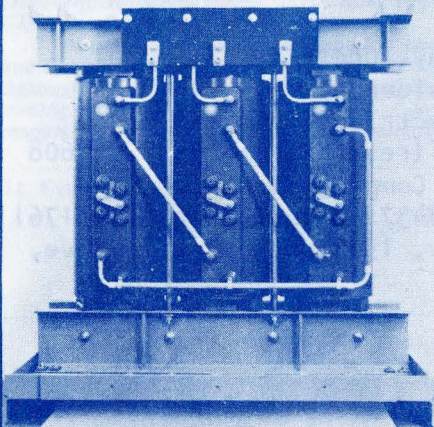
NW PRESENTING "FIELD TEST AND REPAIR OF CIRCUIT BOARDS"

The Northwest Subsection will have as its speaker on Wednesday — January 17, 1979 Roy Leo of GenRad, Inc., Schaumburg; his topic "Field Test and Repair of Circuit Boards."

The two major service philosophies for electronic equipment are "on-site repair" and "board-swapping." Both philosophies have been used successfully for specific customer requirements. Until recently, the board-swapping philosophy necessitated shipment to a rework facility for the boards removed from the product. The resulting "repair pipeline" delays required a huge inventory of spare boards to support this philosophy. Several large computer companies are now implementing a new service philosophy by moving the circuit board test and fault-isolation capability out to the field. Field test and repair of circuit boards can be done at local offices to reduce the board inventory if board-swapping is desired and it can be done on-site, if on-site repair is desired. The major software and hardware features of the Portable Service Tester (PST) will be described and demonstrated.

Dinner will be held at the 7 Stars Restaurant, formerly the Maitre D', 111 East Higgins Road (at Arlington Heights Road) in Elk Grove Village. Social period 6:00 PM; dinner 7:00 PM; meeting 8:00 PM.

Cast-coil distribution and power transformers



- High Overload Capacity
- High Impulse Strength
- Maximum Protection Against Hostile Environments
- Moisture Proof
- Lower Installation Costs
- Copper Windings
- Nuclear Safety Approved
- Seismic Tested
- Non-Polluting
- Max. - 36KV
- Max. - 10000KVA
- Maximum Short Circuit Strength



**ELMA
ENGINEERING**

1066 EAST MEADOW CIRCLE
PALO ALTO, CALIFORNIA 94303
PHONE (415) 494 - 7303, TELEX 345 - 560

Chicago District Sales Representative
ROBERT K. ORMAN (312) 640 - 0038

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*

—ADV—



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