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CHICAGO SECTION • IEEE • INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

OCTOBER 1975

CALENDAR OF EVENTS

IEEE OFFICE 236-4609

- Oct. 1 "Electrification of U.S. Railroads," Information Chapter, Aylwards, West Chicago, Ill., Dinner 7:00 PM; Meeting 8:00 PM.
- Oct. 6 "Telephone Switching System Reliability — Past, Present and Future," Reliability Chapter, Heuer's Restaurant, 5591 River Rd., Rosemont, Ill., Social Hour 5:30 PM; Dinner 6:30 PM, \$7.50; Meeting 7:30 PM.
- Oct. 8 IAS/IECI — Tour Kearney Lab., 8600 Joliet Rd., McCook, Ill. Dinner at Key West Restaurant, Manheim & 55th Street; Cocktails 5:30, Dinner 6:30, Meeting 7:30. Members \$7.00; Non-members \$8.00.
- Oct. 14 Antennas & Propagation/Microwave Theory & Techniques Meeting (No information by deadline).
- Oct. 23 "High Voltage Direct Current In A Metropolitan Area," Power Engineering Society, Commonwealth Edison Bldg. — Rm. 650, 125 S. Clark St., Chicago — Luncheon.
- Nov. 4 IEEE Executive Committee Meeting; Brown & Root Offices, Spring Rd., Oak Brook, Ill., 7:30 PM — ALL WELCOME.
- Nov. 5 "Mid Career Reappraisal," Fox Valley Subsection, Kings Palace, Lisle, Ill., Dinner 7:00 PM; Meeting 8:00 PM.
- Nov. 12 Industrial Applications & Control Instrumentation/Industry Applications Society Meeting (No information by deadline).
- Nov. 19 "Space Exploration," Northwest Subsection, Maitre "D" Restaurant, Elk Grove Village, Ill., Social Hour 6:00 PM; Dinner 7:00 PM, \$6.00; Meeting 8:00 PM.
- Nov. 20 Power Engineering Society Meeting (No information by deadline).

NEC '75 - SEE YOU THERE!

The National Communications Forum (NCF) and National Electronics Conference (NEC) October 6-7-8 at Chicago's Hyatt Regency O'Hare headed by Edward J. Glenner, (Executive Director, GTE Automatic Electric Laboratories, Inc., Northlake, Illinois).

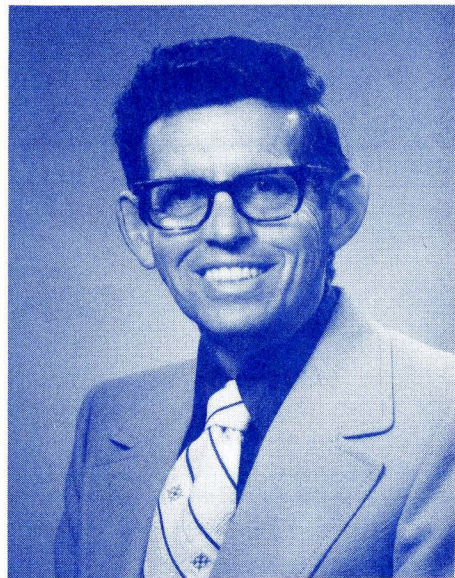
The Conference program will include 18 Technical Paper Sessions, reflecting the current state of communications technology and 11 New Technology Seminars providing more detailed treatment of selected topics. In addition to the papers

program and seminars, NCF/NEC 1975 will feature two panel discussions "Future of Digital Electronic Switching" and "Improving Programming Productivity". Two executive lecture series are planned, "Behavior Modification in Business and Industry" and "The Assessment Center — Its Use in the Selection and Training of Engineering Managers".

Included among the subjects to be presented are New Device Developments, recent advances in Communications Theory, Software Maintenance, and Mass

Storage Systems. Seminar topics will include Speech Processing, Synchronization in Large Networks, Computer Performance Evaluation and latest developments in Optical Communication. A broad range of electronic and communication equipment will be on display at the exhibition. For further information, contact the NEC office, Suite 103, 1301 W. 22nd Street, Oak Brook, Illinois 60521, 312/325-5700.

HIGH VOLTAGE DIRECT CURRENT IN A METROPOLITAN AREA



The Chicago Chapter of the Power Engineering Society will open the 1975-76 program season with a discussion of the general Technology concerning the Emerging Technology of High Voltage Direct Current Transmission of power in large blocks. The speaker is Mr. Richard A. Naatz who is presently a Staff Engi-

neer in the System Planning Department of Commonwealth Edison Company.

He will discuss DC transmission technology as it applies to a densely populated metropolitan area where overhead transmission is impossible. The program will highlight the results of a recent Commonwealth Edison — ASEA joint study of the economics and feasibility of underground high voltage direct current transmission.

NAATZ graduated from the University of Illinois with a BS degree in Electrical Engineering and has been employed with Commonwealth Edison for more than 25 years. His present responsibilities include planning for generation and for long-range transmission. He is a Senior member of IEEE, a registered professional engineer and a member of Eta Kappa Nu.

The Chicago Chapter of the PES invites all who are interested to attend this luncheon meeting which will be held in Room 650L in the Commonwealth Edison Building at 72 W. Adams Street in Chicago. The luncheon will begin at 11:30 a.m. on Thursday, October 23. The cost for luncheon is \$5.00 per person.

For information or reservations call 236-4609.

SCANFAX "CLUES" CLOSET

Here are some clues to help you improve your meeting attendance:

CLUE 1: Get your material to us on or before the first of the month preceeding the issue you want to carry the information.

If you all faithfully follow Clue 1 we will do our best to get Scanfax to all members by the first of the month for the issue. This will give more lead time for reservations. Our preparation time is minimal but, if we wait for important information, well, Scanfax is late arriving in the boondocks.

CLUE 2: Give us the opportunity to cover your meeting adequately. It will boost attendance. Try to provide a glossy photo of the speaker and/or equipment and sites (such as a nuclear station); a short biographical sketch of the speaker, and a short resume of the topic.

Check this corner again for more "clues: " on improving section publications.

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Meeting Reservations

Remember that the IEEE office, (312) 236-4609 will take your meeting reservations. Call anytime between 8:00 AM and 5:00 PM, Monday through Friday.

The meeting coordinator for any group should call and leave his number with the office, so they can refer questions on matters other than reservations.

Change of Address

If you have moved — or are about to move — please notify the IEEE office in NEW YORK. Our SCANFAX mailing labels come from there, and we cannot update your mailing address locally in Chicago.

A change of address form is included in each issue of SPECTRUM. Your local post office will also supply you with cards; mail to Emily Sirjane, Membership Services, IEEE, 345 E. 47th Street, New York, NY 10017. Include your SPECTRUM mailing label if possible. We cannot forward this information for you, so please do not send it to the local office.

SPACE EXPLORATION AT NORTHWEST MEETING

Mr. W. R. Rothlisberger, Project Manager of Illinois Terminal at Hanover Station will speak on Space Exploration on Wednesday, November 19 at Maitre "D" Restaurant, 111 East Higgins Road in Elk Grove Village, Illinois.

Areas of interest to be covered: A. T. & T. Domestic Satellite System; Selection of the Earth Station Location; Construction of the Earth Station; Equipment at the Earth Station; Construction of a Satellite; Communicating with a Satellite; Terrestrial Network and Utilization of New Technology.

Social hour is 6:00 PM; dinner 7:00 PM (Club Steak with the trimmings, \$6.00); meeting 8:00 PM. IEEE W.S.E. members and guests are invited. For any additional information call Bert Baumbach, Northwest Subsection Chairman, 455-8010. For reservations call the IEEE office, 236-4609.

CALL FOR VOLUNTEERS

The Chicago Section is now required to notify IEEE headquarters concerning the status of the following inactive groups:

- G-4: Circuit Theory
- G-5: Nuclear Science
- G-9: Instruments and Measurements
- S-10: Aerospace and Electronic Systems
- S-14: Engineering Management
- S-23: Control Systems
- G-32: Electrical Insulation

The by-laws state that inactivity for two years or more indicate the group in question should be dropped. The Section is trying to generate interest in the groups listed by making personal contacts and having the situation discussed at scheduled meetings, and also by attempting to have joint meetings where an active chapter will sponsor an inactive one.

Anyone interested in re-establishing the groups should contact Paul Jahn, Vice Chairman, at Commonwealth Edison, Waukegan Station, Greenwood Ave. at Lake Michigan, Waukegan, Illinois, 60085. Phone: 662-4000 Ext. 21.

MISSING . . .

. . . from the calendar.

Don't forget to join the Executive Committee at the monthly meeting in Oak Brook October 7 — Brown & Root offices, Spring Road — 7:30 P.M. — ALL WELCOME.

TELEPHONE SWITCHING SYSTEM RELIABILITY

PAST, PRESENT, AND FUTURE

On October 6, the Chicago IEEE Reliability Group is offering a presentation by Henry Malec, a Senior Engineer of the Systems Research Laboratory of GTE Automatic Electric Laboratories.

Telephone Switching System Reliability over the past 10 years can be categorized into 5 basic schools. Switching Systems will be classified and the 5 schools discussed. Presently, performance and effectiveness measures such as Common Control Performance, Call Handling Effectiveness, and various categories of degradation of service dominate the reliability parameters. In the future, maintenance philosophy and operating environment (rural, suburban and urban) are some of influential factors for telephone switching reliability. These will be discussed along with additional factors.

$$e = \int_0^{5000} \text{Help}$$

You have probably forgotten that formula, but a moment's reflection will clearly recall it. Heaven help us if any of our old Professors read this explanation of it!

- H — Lines of attraction between our members
- e — Potential energy of each member
- l — Level of activity
- p — Professional obligations of each EE

C — Chicago Section, 5000 members
Yes, its corny, but not too inaccurate. We have printed a list of names and numbers of various Committee chairmen. If a spark strikes you, give one of us a call and offer to help. One of the most deeply appreciated services doesn't even cost any money — just come to a meeting! If you can overcome the easy-chair inertia, the resulting momentum may be surprising and beneficial to you. If you ask someone to join IEEE or help with a dull job, you may find that people are just waiting to be asked, and the job may turn into fun. If we are not giving you what you want, let us know and lend a hand. Your Section Executive Committee is very eager to work for the whole Section. Try us!

Join a Committee and a Group or Society — everybody will benefit.

— From Baltimore Section Newsletter, chairman's corner

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