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CHICAGO SECTION • IEEE • INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

APRIL 1975

CALENDAR OF EVENTS

IEEE OFFICE: 263-5954

- April 2 "How Electronic Switching Evolved"; Fox Valley Subsection; Bell Telephone Laboratories, Wheaton and Warrenville Roads, Naperville, Ill. Dinner 7:00 p.m.; meeting, 8:00 p.m.
- April 5 Midwest Acoustics Conference; Norris Center, Northwestern University, Evanston, Ill. See March issue for program.
- April 8-10 EMC Specs and Compliance Course, Holiday Inn, O'Hare. See March issue for details.
- April 8-10 "Motor Starting Vibration and Protection"; IAS/IECI; Nielsen's Village, 7330 W. North Ave., Elmwood Park, Ill. Social hour, 5:30 p.m.; dinner, 6:15 p.m.; meeting, 7:15 p.m.
- April 14 "Bulk Power Interconnections"; Room 650L, Commonwealth Edison Building, 172 W. Adams Street, Chicago. Luncheon, 12:00 noon. Reservations by Friday, April 18.
- April 16 "System Reliability in Personal Radio Signalling"; Vehicular Technology; Lancer Steak House, Meacham and Algonquin Roads, Schaumburg, Ill. Social hour, 6:00 p.m.; dinner, 7:00 p.m.; program, 8:00 p.m.
- April 21-23 American Power Conference, Palmer House, Chicago
- April 24 First meeting of second offering of Microprocessor Systems Design Course; Northwestern University, Evanston, Ill. See article.

CHICAGO SECTION TO HELP UNEMPLOYED MEMBERS

During previous recessions, IEEE did not have a viable mechanism for helping unemployed members, but with the organization of the national, regional, and section Professional Activities Committees, this has changed. Howard L. Wolfman, Teletype Corporation, the PAC chairman for the Chicago Section, in cooperation with the Chicago Section Executive Committee and Region IV PAC chairmen, is organizing such a program here.

Following the guidelines set out by IEEE headquarters, the Chicago Section proposes to: 1. Act as a clearing house for information on the unemployment situation for both members and employers, and 2. Act as a center, to which members can refer rumors of impending layoffs, rumors of employer hirings, or rumors of engineers being underutilized, or asked to do senior design work at a technician's salary. The IEEE will check with all involved, to set the record straight.

The first step will be to gather accurate knowledge about just who is out of work in the Chicago area. Accordingly, unemployed members, or those members who have been informed that they are to be laid off, are asked to fill in the coupon below and send it to Howard Wolfman. You must include your membership number (on Scanfax label) and when you were (or expect to be) terminated. Wolfman can be reached at 982-2240 or at his home, 272-5959.

Send to: Howard L. Wolfman, PE
3248 Echo Lane
Northbrook, IL 60062

Name _____

Home Address _____

City _____ Zip _____ Phone _____

Membership No. _____

Field of Desired Employment _____ Years Experience _____

Where last employed _____ Job title _____

When terminated _____ Business Phone No. _____

LADIES NIGHT AT PHEASANT RUN

The Fox Valley Subsection Ladies Night, Sunday, May 4, includes dinner and the theatre at Pheasant Run Playhouse, Route 64, St. Charles, Ill.

"Sleuth," a suspense-filled mystery thriller that has fascinated audiences throughout the world, stars Patrick Macnee and Jordan Christopher.

Dinner is at 5:30 p.m.; play at 7:30 p.m. Cost for the entire evening, including dinner and theatre ticket, is \$11.00 per person. Dinner includes your choice of beef, pork, or chicken; steak or lobster can be obtained at an additional cost.

Reservations for tickets must be accompanied by your check, made out to: Fox Valley Subsection, IEEE, and must be received by April 21. Send your check and reservations to: C. A. Borchert, 323 Indian Drive, Glen Ellyn, Ill. 60137. Include choice of dinner entree.

OPTOELECTRONICS: APPLICATIONS AND PRINCIPLES

Optoelectronics is a rapidly expanding field, and optoelectronic devices are increasing in communications, consumer electronics, calculators, business machines, and instruments.

This short course at Northwestern University will help engineers who are called upon to use optoelectronics, often without formal training in optics. Given June 16-20, 1975, at the Technological Institute of Northwestern University, this intensive five-day course will give participants an understanding of the basic concepts of optoelectronic devices and their applications. Lectures, laboratory work, and demonstrations will cover coherent and incoherent solid state sources; external and internal modulation techniques; communications transmission media in atmospheric and fiber optic systems. Additional emphasis will be given to bulk and junction detectors, with specific reference to their inherent limitations, as well as to the principal information transmission techniques for analog and digital systems. Specific attention will also be directed toward liquid crystal and light emitting diode displays.

Tuition cost of \$460 includes lecture notes that summarize the essential concepts, and will be fully referenced to allow participants to do further work in this field.

MICROPROCESSOR SYSTEMS DESIGN COURSE

The Microprocessors Systems Design Course (currently in session at Northwestern University) is a sell-out. If there is sufficient interest, the course will be re-offered every other Thursday starting April 24. Offered by the IEEE Computer Society, Chicago Section of IEEE, and Northwestern University, this is a comprehensive course dealing with the design of systems incorporating a microcomputer. Application examples are taken from systems actually designed and built and are discussed in detail. For additional details on the material covered, see page 4 of the February issue of Scanfax, and the yellow insert in the February issue.

To allow individual interaction during course sessions, registration must be limited. If you are interested in the second offering of the Microprocessors Systems Design Course, please call the IEEE office, 263-5954.

Faculty consists of Morris E. Brodwin, PhD, professor of microwave physics, Electrical Engineering Department, Northwestern University, and C. R. Kannewurf, Ph.D., also in the Electrical Engineering Department.

For further information, call or write: Northwestern University Technological Institute, Continuing Engineering Studies, Technological Institute, Northwestern University, Evanston, IL 60201. Telephone: (312) 492-3365.

VEHICULAR TECHNOLOGY

At the April 16 meeting of the Vehicular Technology Group, George P. Schleicher, district staff engineer for radio and TV, Illinois Bell Telephone Company, will talk on "Design for System Reliability in Personal Radio Signaling."

Meeting will be held at the Lancer Steak House, Meacham and Algonquin Roads in Schaumburg. Social hour, 6:00 p.m.; dinner, 7:00 p.m.; program, 8:00 p.m.

For reservations, call Dan Clark at 397-1000, ext. 3826, before April 14.

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Meeting Reservations

Remember that the IEEE office, (312) 263-5954, will take your meeting reservations. The best time to call is between 9:30 a.m. and 12:30 p.m. or between 2:30 p.m. and 5:00 p.m.

The meeting coordinator for any group should call and leave his number with Ollie at the office, so she 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.

CALL FOR PAPERS

NATIONAL TELECOMMUNICATIONS
CONFERENCE

Original papers are invited on all aspects of telecommunications for presentation at the National Telecommunications Conference, December 1-3, 1975, Fairmont Hotel, New Orleans, La. Conference theme is "Communications — Nucleus of A Nation," and any paper dealing with this theme is welcome. Suggested topics include, but are not limited to: communications switching, space communications, wire transmission systems, vehicular communications, radio communications, satellite communications, industrial and power systems communications, energy and environmental impacts on communications, and social implications of technology.

Prospective authors should submit five copies of both the paper and one page summary, no later than May 1, 1975, to I. N. Howell, Jr., South Central Bell Telephone Company, P. O. Box 771, Birmingham, Alabama 35201. The completed manuscript (five page maximum length, camera-ready copy) must be submitted for publication by August 1, 1975.

FIRST NATIONAL CONFERENCE ON SOFTWARE ENGINEERING

Authors are invited to submit original, unpublished papers for the First National Conference on Software Engineering, to be held September 11-12, 1975, at the Mayflower Hotel, Washington, D. C. Papers should be in the fields of methodology, including software specification, and design techniques, program validation and verification techniques, software design for portability, etc., or in the field of applications, including structured programming experiences, program testing results, project organization and management control, etc.

Five copies of the paper (maximum 5,000 words) should be submitted by April 15, 1975, to: Thomas Steel, program chairman, Equitable Life Assurance Society, 1285 Avenue of the Americas, 7-F, New York, N.Y. 10019. Camera-ready copy for selected papers will be required by July 1, 1975.

NEC/NCF

The 1975 NEC will be held concurrently with the 1975 National Communications Forum (NCF). These two major technical meetings will be presented at Chicago's Hyatt Regency O'Hare, October 6-8, 1975.

PART TIME GRADUATE PROGRAM

The Department of Electrical Engineering at Northwestern University is instituting a part-time graduate program designed for engineers and scientists in industry. Under the program, to start in the Fall of 1975, a qualified student can complete his MS degree in electrical engineering in two years (six quarters). The courses in the program are taught by full-time faculty and are also attended by full-time students. Classes will meet twice a week on Mondays and Wednesdays on a late-afternoon (4:00-5:30) / early-evening (6:00-7:30) basis. The MS requirements are the successful completion of 11 courses and a master's project, or successful completion of 10 courses and a master's thesis.

Over a two year period the Electrical Engineering Department will schedule at least twelve courses on a late-afternoon/early-evening basis. These courses, chosen to have broad appeal, cover the areas of systems, fields, solid state, communica-

tions, and computers. A more detailed description of the program is available upon request. In addition to these twelve courses six other courses of interest to EE students are taught in the same time slots by other departments in the Northwestern Technological Institute. The Department feels that these additional courses offer the flexibility needed so the part-time student can design a program which closely matches his professional interest and aspirations.

If a prospective student is not allowed release time by his company, he can register in the early-evening courses (one each quarter) to develop a part-time M.S. program which will take, by necessity, longer to complete.

For further information or an application for admission, please call or write Professor S. Louis Hakimi, Chairman, Electrical Engineering Department, Northwestern University, Evanston, Illinois 60201, (312) 492-7374.

BULK POWER INTERCONNECTIONS

Electric utilities for many years have been trading power during shortages and emergencies. As the technology has developed, the methods of planning and accomplishing these power interchanges has become increasingly sophisticated.

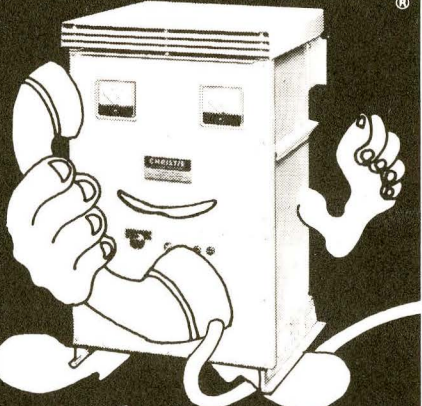
At the April 14 meeting of the Chicago Chapter, the IEEE Power Engineering Society, Harry Terhune, Commonwealth Edison, will provide an overview of the coordinated planning, expansion, and operation of the interconnected bulk power system in the Midwest.

Terhune presently serves the Mid-American Interpool Network as systems power coordinator. He received his BS in electrical engineering in 1967 from the University of Notre Dame and is currently doing graduate work in electrical engineering at Illinois Institute of Technology. Terhune has been with Commonwealth Edison since 1967, serving first in distribution division planning and design and later with the system planning division. In 1972, Terhune was assigned to the MAIN coordination center as assistant systems power coordinator. Terhune is a Registered Professional Engineer in Illinois and a member of IEEE/PES.

Meeting will be held on April 14 in Room 650L of the Commonwealth Edison Building, 172 W. Adams Street, Chicago. Luncheon at 12:00 noon. For

reservations, please call 263-5954 by Friday, April 18.

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SATURDAY, MAY 10's the Date . . .

. . . for the 1975 IEEE Recognition Dinner at the Arlington Park Hilton. Past dinners have been a roaring success — don't miss this one. Send for your tickets now. Meet your fellow IEEE members and their spouses for a great night out.

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