

SEPTEMBER/1971

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SECTION

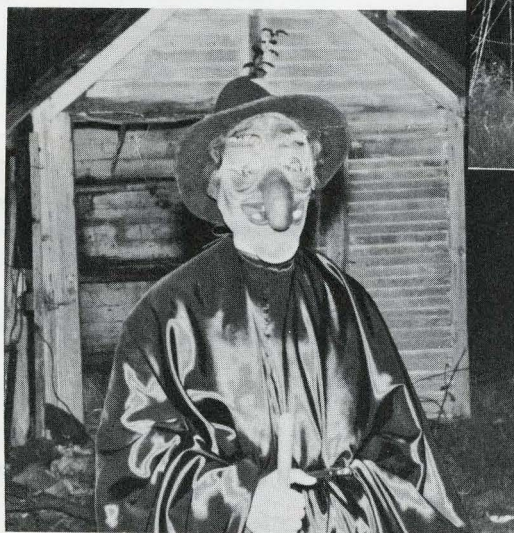
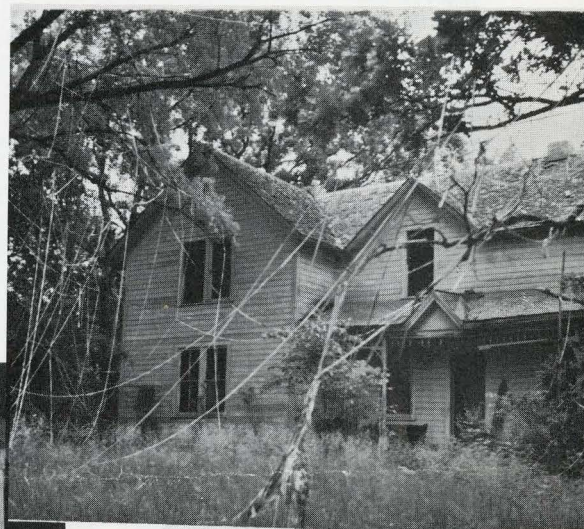
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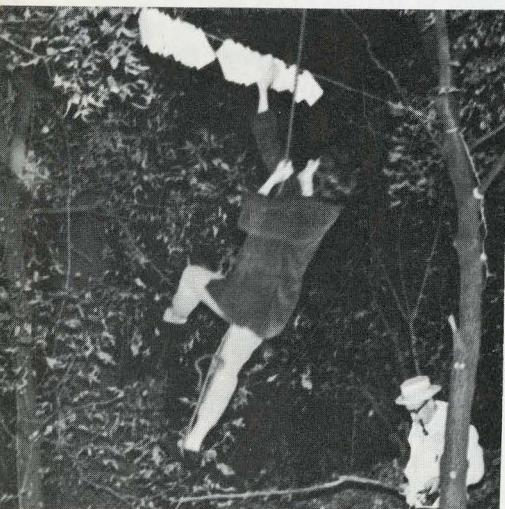
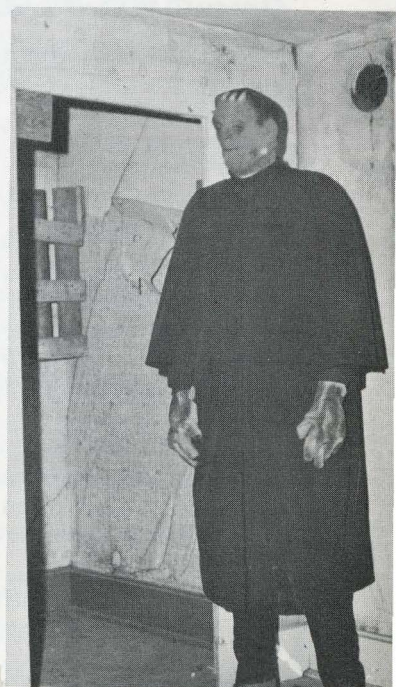


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**1971
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From the Chairman . . .

The last year has been a most difficult one for the economy in general and engineers in particular. IEEE, while primarily a technical society, has offered several options to members who have been affected: those who are not employed can continue membership at reduced rates; those who feel they need a lobby to represent them can also become associated with the NSPE or ISPE. Further details on these plans are available in IEEE SPECTRUM.

It has also been a difficult year for the Chicago Section. Attendance at meetings has declined. (Two bright spots here were the most encouraging attendance at the Subsection meetings.) Showtime and the Recognition Dinner were both poorly attended and lost a significant amount of money. SCANFAX has lost most of its advertising revenue and has dipped further into the Section treasury.

SEPTEMBER 29

Northwest Subsection Opens 1971-72 Season

The Northwest Subsection's opening meeting will be held Wednesday, September 29. Join your friends and co-workers at Old Orchard Country Club, Rand and Euclid, Mt. Prospect, for a pleasant, informative evening.

The meeting topic will be on Commonwealth Edison's Emergency Restoration Procedures. The speaker will cover trouble determination, restoration priorities, and logistics.

Cocktails, 6:00 p.m.; dinner, 7:00 p.m.; meeting, 8:00 p.m. Come to the meeting even if you can't make it for dinner. For reservations, call Jim Beall, 982-3055.

The Northwest schedule for the rest of the year includes:

Nov. 17: ISPE and the Electrical Engineer.

Jan. 19: Engineers' Liability.

March 15: Minicomputers as Process Controllers.

May 17: Tour of Joslyn High Voltage Test Laboratory.

Enough of the problems though. The Section officers are working to solve them. We are putting a program together that should be interesting and informative. The format of the social events is being revised. The format of SCANFAX will be revised if it will make it more useful to the members. All of this activity (and many others) needs one more ingredient, however—YOU. Yes, you to help plan these activities and you to support them. Look through the various committees listed elsewhere in this issue. Call the chairman, and volunteer your help. Plan to get together with your neighbor or co-worker and attend a few of the meetings during the coming year. If you don't like the way things are being handled, or have some suggestions on how they may be improved, call me at 727-1972.

Bill Kusner, *Chairman*

What Can IEEE Do For You?

That's right—not one thing!

Oh, they can send you the best E/E tutorial articles and news items every month in Spectrum . . . And keep you up to date on the latest in your field through your Group's Transactions.

But they can't make you read them!

Your Section can set up several meetings a month where you can meet competitors, professors, leaders, and other engineers in a friendly, informative atmosphere. . . . And they can arrange forums, seminars, and tutorial nights, where you can listen to and question the experts in your field, and become inspired by the work of others.

But they can't make you go!

They can encourage kids in Junior-Hi Senior-Hi, and College with advice and help. . . . And they can cooperate with other engineering groups to enhance the whole profession.

But they can't make you help!

Nope, the IEEE can't do a thing for you—they can just make oppor-

Government Funded Electronics Markets

Government funded electronics markets is the subject of EASCON '71 to be held in Washington, D.C., October 6-8, 1971, at the Marriott Twin Bridges Motor Hotel. Under the theme "Technology is Alive and Needed," leaders of government and industry will describe the civil and military programs in which electronics companies can participate in the decade of the 1970's.

Sessions sponsored by G-AES and IEEE will focus on needs in environment, medicine, education, transportation, electrical energy, satellites, and radar.

Concurrent with EASCON '71, G-IECI will sponsor the 1971 IEEE Transducer Conference, which will consist of sessions on industrial and biomedical transducers; and IEEE Region 2 will sponsor its First Regional Conference, which will include technical sessions on Technology Forecasting and Assessment.

Also concurrent with EASCON '71, the Department of Defense and the Institute for Defense Analyses will sponsor classified sessions on optics, tactical communications, unmanned minimum exposure systems, navigation and communications satellites, and military needs of the 70's. (The IEEE and its affiliates are neither a sponsor nor co-sponsor of the classified sessions.)

Special events include a panel discussion of the pros and cons of the theme, "Technology is Alive and Needed," a reception, and the annual luncheon.

NEC/71-COMFOR/71 Oct. Meetings Cancelled

The National Electronics Conference and Exhibition and ComFor/71 originally scheduled for Chicago's McCormick Place on October 18, 19 and 20, 1971 has been cancelled.

NEC will concentrate on presenting an expanded Professional Growth in Electronics Seminar Program during fall 1971.

tunities available. The rest is up to you.

—With a bow and greetings to Akron Section's *Bulletin*

OCTOBER 18-19-20

IEEE Fall Electronics Conference

IEEE is sponsoring a Fall Electronics Conference (FEC/71) at the Pick-Congress Hotel in Chicago October 18, 19, and 20. The FEC/71 consists of the technical program from the recently cancelled National Electronics Conference and Exposition (NEC/71), as well as an awards luncheon and a Monday dinner.

There will be 29 sessions during the three-day conference, with over 150 papers to be presented. The sessions are sponsored by eleven IEEE groups, with major participation by the Communication Technology group (ComTech) which calls its twelve sessions the ComTech Symposium/71.

The IEEE, in organizing the Fall Electronics Conference, is making use of the NEC leadership who had prepared the technical program. It is using the same dates and headquarters hotel originally scheduled for NEC/71. The latter had been planned to include an exposition at McCormick Place, but had to be cancelled for 1971 due to economic conditions.

FEC/71 will feature a Tuesday Awards Luncheon, a ComTech Group dinner on Monday, October 18; meetings of the administrative and other committees of the various IEEE Groups participating; and a special students program. Ladies activities will also be provided. Areas to be covered in the technical sessions include telephone, data and radio communications; telemetry; communications and information theory; antenna and microwaves; environmental considerations; education; and engineering in medicine and biology.

Advance registration fees for IEEE members prior to October 1 will be \$18 and for non-IEEE members will be \$28. There will be an additional \$2 charge for registration at the Conference. Registration includes a printed copy of the Conference proceedings.

Mail your advance registration and check for \$18 to James E. Ricker, Registration Chairman, FEC/71, (312) 727-1581, Illinois Bell Telephone Company, 225 West Randolph Street, HQ 11 B, Chicago, Illinois 60606.

Two Appointed At Pioneer Service

A LaGrange man, Irvin E. Cooper, Jr., has been appointed to the new position of Assistant Manager-Electrical Engineering for Pioneer Service & Engineering Co.; a Chicago-based consulting firm specializing in design, construction management and computer support activities for utilities, municipalities, and industry.

In his new position, Cooper will assist in the management of the Electrical Engineering Division. His responsibilities will include all activities relating to other divisions and all clients. In addition to his new duties. Mr. Cooper will continue in direct charge of all electrical engineering activities associated with the Pioneer-designed 520 megawatt (520 million watt) nuclear power plant presently under construction in the upper midwest area.

Cooper began his professional career with Pioneer in 1952 as an electrical designer and assistant electrical engineer assigned to the design of generation and substation facilities. Since then he has been responsible for electrical engineering on innumerable transmission, substation, and fossil fueled generating station projects. These responsibilities have encompassed feasibility studies, estimates, and specifications as well as design, contract and overall electrical responsibility. His "non-power" assignments have included a major water pumping station for the City of Rio de Janeiro. He also serves as consultant on electrical engineering applications to Pioneer's computing programming staff.

A registered professional engineer in Illinois, Kentucky, Michigan, and Wisconsin, Cooper belongs to IEEE and the Transmission and Distribution Committee of the Edison Electric Institute.

Howard S. Dreyer has joined the technical staff of Pioneer Service & Engineering Company, as nuclear engineer, Dreyer will assist in the preparation of safety reports and other documentation required for



COOPER

SEPTEMBER 20-23

Nader to Address IEEE

Ralph Nader will discuss "Corporate Responsibility and Consumer Protection at the 10th EIC Marketers' Luncheon, September 20, marking the formal opening of the 10th Electrical/Electronics Insulation Conference.

Reverend Dr. Leon H. Sullivan, founder of Opportunities Industrialization Centers and a recently elected member of General Motors Corporation's Board of Directors will address the EIC Awards Luncheon on September 22.

The 10th Electronic/Electronics Insulation Conference will be held September 20-23, 1971, at the Palmer House, Chicago. Twenty-three technical sessions are scheduled, on subjects ranging from Hermetic Motor Insulation Systems to Insulation for Microelectronics. A panel discussion will focus on the Compatibility of Plastics and Semiconductors.

In addition to the technical sessions, four short courses and two workshops are planned. Short courses include: Chemistry of Insulating Materials for Electronics; Insulating Materials for Power Applications; Measurements and Dielectric Behavior; and Measurements and Dielectric Behavior—Electronics.

The Rotating Machinery Workshop will cover solventless impregnation and testing of electrical insulation. The Electronics Workshop will cover encapsulation of components by molding and printed circuit techniques.

Special tours have been scheduled for Electro-motive Division, Teletype Corporation, and Skill Corporation.

the three Pioneer-designed power units presently under construction in the upper Midwest.

Dreyer came to Pioneer from the General Electrical Co. of Philadelphia, where he served as consulting engineer. Previously, he was with the Lockheed Company and Aerojet-General Nucleonics as staff engineer and senior chemical engineer, respectively. He belongs to the IEEE, the American Nuclear Society, and the AAAS.

1971-72 Chicago Section Directory

This is your Section Directory for 1971-72. Save it to refer to whenever you need to contact an officer or chairman. The Directory is as complete as we could make it this early in the season, but does not contain group officers. All groups should send list of officers to the secretary of the Section, Richard A. Bulley, Commonwealth Edison Co., 267-8131, ext. 308, or to Pat Ibbs, 2627 Thayer Ave., 864-5723, Evanston, Ill. 60201.

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IEEE Kickoff Meeting

Chicago Section IEEE starts the 1971-72 dinner with a kickoff meeting at the Black Steer Restaurant, 6446 W. North Ave., Chicago, on Tuesday, September 28.

An outstanding program is being planned. Make reservations now by calling the Electronic Secretary 764-5000.

Fall '71 NEC Professional Growth Seminar Program

The National Electronics Conference will present an expanded fall Professional Growth in Electronics Seminar program. Four seminars will be presented at Pheasant Run Lodge, St. Charles, Illinois.

A highlight of the NEC fall program will be the presentation of two Minicomputer seminars. A full week will be devoted to the subject of Minicomputer Fundamentals and Software Engineering for Minicomputers. Both of the minicomputer seminars are complemented by an Equipment Forum wherein major computer manufacturers will display latest systems for seminar participants to see and use. For details, call NEC, 325-5700.

Developed COBOL to Balance Her Checkbook

Commander Grace M. Hopper, USNR Ret., devised COBOL, the widely used computer language for business and finance, because she had difficulty in balancing her checkbook! A mathematician having difficulties with a checkbook? Yes—when she had to switch from octal notation for a computer to decimal notation for the checkbook. Two years after the checkbook incident, she had developed COBOL, and all of us can now talk to computers in ordinary English and decimal notation.



HOPPER

A staff scientist with Sperry Rand Corporation's Univac Division, Commander Hopper is presently on special leave of absence, reporting to the Director, Information Systems Division under the Chief of Naval Operations, the Pentagon, Washington, D.C. She is working on stan-

dardizing COBOL so that each computer installation will use the same verbs to mean the same things. Since some installations have small computers and some larger, the system will have an upward compatibility.

Commander Hopper, a fellow of IEEE, was in Chicago recently for the first presentation of the Grace Murray Hopper award, sponsored by the Univac Division of Sperry Rand Corp. and administered by the Association for Computing Machinery. The award was presented to Dr. Donald E. Knuth, professor of Computer Science at Stanford University at a dinner commemorating the 25th anniversary of ENIAC, the first electronic digital computer.

Chicago Fall Conference

This year the IEEE Chicago Fall Conference on Broadcast & Television Receivers will replace the NEC Consumer Symposium. The Fall Conference will be held on December 6th and 7th at the Sheraton O'Hare Motel near O'Hare Field.

There will be an Awards Luncheon on Monday December 6th. A total of nineteen (19) papers will be presented in four sessions on Monday and Tuesday.

Session 1, Monday a.m. covers Signal Processing.

Session 2, Monday p.m. covers RF-IF Systems.

Session 3, Tuesday a.m. covers Audio.

Session 4, Tuesday p.m. covers Deflection.

The conference is sponsored by the group on Broadcast & Television Receivers and the group on Electron Devices. Program Chairman for the Fall Conference is Mr. R. Ashley of Warwick Electronics.

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Where Has All The Water Gone?

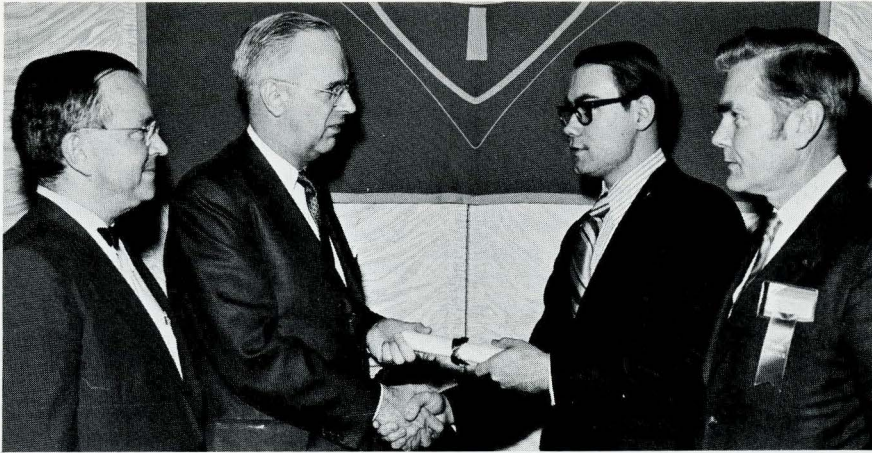
"People and Water—Will Twice as Many Mean Half as Much?" Lorenz W. Aggens, public service director, Northeastern Illinois Planning Commission, will provide answers at the first meeting of Fox Valley Subsection's 1971-72 season, Wednesday, September 8, at the Tally Ho Restaurant, North Avenue, West Chicago. Dinner begins at 7 p.m.; the program at 8.

In addition, Aggens will portray the complex nature of metropolitan growth, and identify the efforts being made in a six-county area to assure sound and orderly development. The Commission, formed by an act of the Illinois General Assembly in 1957, is responsible for research and development of comprehensive growth plans to guide Du Page, Cook, Kane, Lake, McHenry and Will Counties.

Commission studies include such regional systems as water and air resource management, flood control, open space reservation, highway and mass transportation development, refuse disposal, sewage treatment and water distribution. It forecasts a doubled population in the counties within 50 years.

Aggens—with the Commission since 1966—manages an extensive program of information and education services geared to the needs of individuals and groups of all descriptions throughout the 4,000 square mile region. Reflecting the interdisciplinary nature of urban planning, he has professional and academic backgrounds in geology, educational administration and land use economics. A graduate of Northwestern University with BS and MA degrees, he had been with the Real Estate Research Corporation, doing economic and market analysis and land use appraisal, and with the North Shore Country Day School, Winnetka, as an instructor in Earth Sciences, high school boys' adviser, school business manager and treasurer of the board of directors.

SCRs and readout tubes will be discussed during a tour of National Electronics, Inc., Geneva, October 6, by James Teppo and Robert Strecker. The dinner will be at the Lincoln Inn, on Route 31, in nearby south Batavia.



President Mulligan presented the Region IV Student Prize Paper Award to Thomas J. Coffey, a student at Illinois Institute of Technology at the IEEE 1971 Directors Reception. Watching the presentation are Professor R. B. Russ (left), chairman of the Student Activities Committee, and Region IV Director Hansford W. Farris (right).

IEEE Treasure Hunt

The 1971 IEEE Treasure Hunt will be held Saturday night, October 2, 1971. Reservations are being taken on a first-come first-serve basis, so get your teammates together and send in your check, quickly.

Tickets for the Hunt are \$19 per couple. Only reservations for a full

car (three couples) will be accepted. The cost includes post-Hunt Top Sirloin of Beef dinners. Reservations for the Hunt only will not be accepted.

Please fill out and return the adjacent Reservation Form. We will be limited to 130 cars.

TOM WOJCIK
120 Ridgewood Road
Elk Grove Village, Ill. 60007

Enclosed is our check(s) totaling \$57 for the 1971 IEEE Treasure Hunt on Saturday, October 2. We understand that the Hunt will take place rain or shine and that full instructions and tickets will be mailed to us a few days prior to the Hunt.

Names of Team-mates:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Mail all instructions and tickets to:

Telephone: _____

MAKE CHECKS PAYABLE TO: 1971 IEEE TREASURE HUNT