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CHICAGO SECTION · IEEE · INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

SEPTEMBER 1974



CALENDAR OF EVENTS

IEEE OFFICE: 263-5954

- Sept. 4 Measuring Frequency Spectrum Occupation; Fox Valley Subsection; Andy's Steak House, Butterfield and Midwest Roads; Oakbrook, Ill. (Page 1)
- Sept. 24 MTT/A&P; Black Steer Restaurant, 6446 W. North Ave., Chicago. (Page 1)
- Sept. 18 Northwest Subsection; Maitre 'd Restaurant, 111 E. Higgins, Elk Grove, Ill. Dinner, 7:00 p.m.; meeting, 8:00 p.m.; call 263-5954 for reservations.
- Sept. 24 Semiconductor Reliability; Reliability Group; Nielsen's Restaurant, 6475 N. Mannheim Road, Rosemont, Ill. (Page 1)
- Oct. 4 Saville Organ Demonstration; Fox Valley Subsection; Glenview Country House, 1560 Waukegan Road, Glenview. Demonstration at Saville Organ Corporation, Northbrook. (Page 2)
- Oct. 16-18 National Electronics Conference; Hyatt Regency O'Hare. (Page 3)

Deadline for copy: First week of month preceding publication

MTT/A&P Plans Busy Year

Dr. Marvin Cohn, Westinghouse Electric Corp., will kick off the 1974-75 season of the Chicago Chapter of the Microwave Theory and Techniques and Antennas and Propagation Societies at a meeting on September 24. Meeting will be held at the Black Steer Restaurant, 6446 W. North Ave., Chicago. Social hour, 6:00 p.m.; dinner, 6:30 p.m.; meeting, 7:30 p.m. Make reservations by calling the IEEE office, 263-5954.

Meetings of the chapter of the combined societies will be on Tuesdays this season. Dates have been tentatively set at September 24, November 12, December 10, January 21, March 11, and May 6. All meetings, except for December 10 will be at the Black Steer.

A very special Ladies Night is being planned for December 10, to include dinner and the theater at Arlington Park. Dr. T. K. Ishii, Marquette University, will speak on a topic of interest to all. Group rates may be available if enough members attend. Additional details will be given in the November issue.

Measuring Frequency Spectrum Occupation

The Federal Communications Commission spectrum management task force in Chicago has been collecting data on the land and mobile channels for the past two years. At the September 4, 1974, Fox Valley meeting, John Zinkus will report on the operational characteristics and capabilities of the data acquisition vehicles. Members will have a chance to inspect a vehicle after the meeting, which will be held at Andy's Steak House, Butterfield and Midwest Roads, Oakbrook, Ill.

John Zinkus joined the FCC spectrum management task force about two years ago, and has been primarily concerned with the operation and utilization of the spectrum data acquisition band.

Prior to that, he worked for Collins Radio in the ECN field as a design and systems engineer on the communications and navigation system for the Mercury, Gemini, and Apollo space vehicles. He also contributed to studies defining the ARIA and MOL space vehicles and to the ARIA navigation systems for the DC10 aircraft.

Social hour, 6:00 p.m.; dinner, 7:00

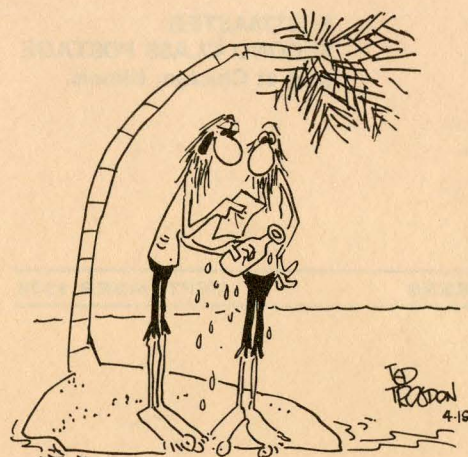
p.m.; meeting, 8:00 p.m. Cost of dinner is \$6.00. Make reservations by August 30 by calling 263-5954.

Reliability Group Meets

The Reliability Group will meet on September 24 to hear two speakers from Zenith Radio Co. discuss semiconductor reliability. Meeting and dinner at Nielsen's Restaurant, 6475 N. Mannheim Road, Rosemont, Ill. Social hour, 6:00 p.m.; dinner, 6:30 p.m.; meeting 7:30 p.m. For reservations, call 263-5954.

Henry A. Buschke, manager of reliability engineering, Zenith Radio, will discuss "Semiconductor Reliability Data — Its Relevance to the Applications Engineer."

Lance Oleson, section manager of the failure analysis laboratory, Zenith Radio, will talk on "Elementary Semiconductor Failure Analysis Techniques."



"It's a call for papers."

The IEEE International Solid State Circuits Conference, which will be held at the Philadelphia Marriott Motor Hotel February 12-14, 1975, invites papers which have not been previously published or presented covering the design, performance, testing or application of solid-state circuits and systems. Applications may be in a variety of fields, including computers, communications, medical, government, consumer (automotive, receivers, etc.), and industrial electronics.

Authors must submit both a 35 word program abstract and 15 copies of a 300 to 500 word review summary to facilitate screening by the program committee. Paper should be suitable for a 20-minute presentation.

Summaries must be single-side, double-spaced, and suitable for reproduction and review purposes. Author's name, affiliation, complete return address and telephone contact should appear on the first page, with author's name and paper title on each subsequent page.

The 35 word abstract, suitable for publication in an advance program,

Annual Fall Conference

The 1974 Fourth Annual Fall Conference will be held at the O'Hare Inn, adjacent to Chicago's O'Hare International Airport, on December 9 and 10, 1974. Papers in all theoretical, experimental, developmental and operational areas of the Consumer Electronics Industry will be considered.

Prospective authors should submit an extended abstract of 300 to 500 words to the Papers Chairman by September 1, 1974.

A certificate and an HP-35 calculator will be awarded for the best paper of the conference.

Notification of acceptance and the format required for publication in the IEEE Transactions on Broadcast and Television Receivers will be sent by September 12, 1974.

Submit abstracts to:

Mr. Bob Podowski
Papers Chairman
c/o Zenith Radio Corporation
6001 W. Dickens
Chicago, Illinois 60639
Phone: 312-745-3194

should be typed on a separate sheet and include title of talk, author's name, affiliation, complete return address, and telephone number.

Send abstract and summary by October 1, 1974, to Program Committee Secretary:

D.P. Gaffney/G33/966-2
IBM Burlington
PO Box A
Essex Junction, VT 05452

Fox Valley To Hear Organ Demonstration

The IEEE Fox Valley Subsection meeting on October 4, 1974, will be at the Glenview Country House, 1560 Waukegan Road, Glenview. Dinner will be at 7:00 p.m., followed by a demonstration at the Saville Organ Corporation, 2901 Schermer, Northbrook.

One of the controlling factors of a pipe organ is that part of its tonal qualities is determined by the characteristics of the performing area. The Saville Organ Corporation entered the electronic organ market in the mid-'60's, supplying electronic organs custom-designed to their performing environment.

Before launching the firm, Bob Saville, a retired electrical engineer, organ enthusiast, and founder of the corporation, developed a special tape recorder to

record sounds of organ pipes. He traveled extensively, recording different pipe organs and collecting representative organ pipes. Using the recordings and pipes, he developed electronic circuits which reproduce the tonal qualities of organ pipes across their entire respective harmonic range. With the aid of his associates, he developed sound systems which could faithfully reproduce the sounds of a pipe organ.

The October 4 program will consist of an introduction at the Glenview Country House, followed by the demonstration at the Saville Corporation and an inspection of the pipe laboratory.

Make reservations by September 30 by calling 263-5954.

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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.

NEC Communications/74

The 30th Annual NEC will be held October 16-18 at the Hyatt Regency O'Hare, Chicago. Some 100 papers will be presented at the 19 technical sessions. Eleven new Technology Seminars will present the latest significant research and applications results in the field of communications. The unique scheduling of the six hour, two-day seminars permits registrants to attend two complete seminars, as well as the technical papers program, exhibits and new product and development presentations.

The latest communications equipment, computers, instrumentation, electronic tools, publications, and production equipment will be on display in the industry exhibits.

Register now and take advantage of lower advance registration fees. Send your registration, before October 9, 1974 to NATIONAL ELECTRONICS CONFERENCE, Oakbrook Executive Plaza 1, 1301 West 22nd Street, Oak Brook, Ill. Advance registration for the technical session is \$8.00. Advance registration for the new technology seminars is \$45.00 for one seminar; \$80.00 for two. Seminar fee includes seminar notes, luncheon ticket, registration for all NEC technical sessions, and exhibits. Seminars include: Electronic Switching Systems-Digital; Satellite Communications — Prospects and Retrospects; Expanded Services and Opportunities in Mobile Communications; Engineering Economics — An Essential Ingredient in Planning; Application of Minicomputers for Auxiliary Communication Switching Features; Latest Developments in Solid State Technology and their Applications; Latest Techniques in Telephone Transmission Maintenance; PCM in the Telephone Plant, its Operation and Application; Health Care and Biomedical Engineering; Processor Control Concepts for Communications Systems; and The Revolution in Communications Terminals.

Attract Members To Your Meetings

To attract members to your group or society meetings, send material in to the IEEE office early — but send it in! The office is there to serve you, Room 532, 55 E. Washington Street, Chicago, Ill. 60602.

Don't disappoint people because you hid your speaker under a bushel.

Nominations for Director of Region

CARROLL AND ARNDT NOMINATED

Paul F. Carroll, Chicago, and Rolland B. Arndt, Twin Cities Section, are nominees for the office of Director of Region IV. Biographic material for the candidates will be distributed with the ballots, which must be returned to IEEE headquarters in New York by November 1. A statement by each candidate follows.

Statement by Paul F. Carroll, Chicago: I believe that IEEE should give its members what they want. A Regional Director should have the time, means, and inclination to travel to all the Sections to listen to the members and Section officers. He should formulate the ideas, suggestions, and gripes into definitive actions and present them to the Regional Activities Board, and the Executive Board in behalf of the members.

One area where the members have overwhelmingly expressed their wants is Professional Activities. I believe engineers want to be represented to and consulted by legislatures, receive pension benefits, and have job security without unionization. They want their professional society to achieve these aims. I believe IEEE has made great changes in the last five years for the betterment of the engineers, but additional changes will be required in the future. I hope my business experience would qualify me to help bring these changes about.

Statement by Rolland B. Arndt, Twin Cities Section: As I view the role of Regional Director, the person elected to this position assumes responsibilities in two equally important areas. At the Institute level, he will serve on the Board of Directors and on various IEEE committees. In this position, he participates in establishing goals and policy for the Institute and participates in and monitors IEEE operations. He is responsible to the total membership and his actions should reflect his interpretation of membership desires and needs.

The second area of responsibility is at the Regional level. The Regional Director is responsible for representing the members of the Region on the Board of

Directors and in other Institute activities, and in making their needs and position known. The Regional Director must provide leadership in achieving goals and objectives and perform the important function of providing two-way communication between the members and local organizations and the Institute headquarters, management, and Board of Directors...

The IEEE has recently become involved in the area of professional activities. I believe this is healthy and should be expanded where such activities can be properly supported by our knowledge and resources. I also believe that engineers' professional interests are best served by a single united voice. Thus I will work towards continued joint efforts with other engineering organizations. Within the IEEE, I believe that professional activities are best handled at the Institute level and they should not be diluted and fragmented by independent efforts of individual organizations within the Institute.

... As needs change, the Institute should be innovative in means of providing current and new services and in adapting its organization to meet these needs. I believe that with the current problem of inflation, financial requirements will continue to be a major concern in meeting these needs...

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Group and Society Chairman

Send names and addresses of your group and society officers to the IEEE office, Room 532, 55 E. Washington Street, Chicago, Ill. 60602. Make sure you are listed in section directory to be published in October.

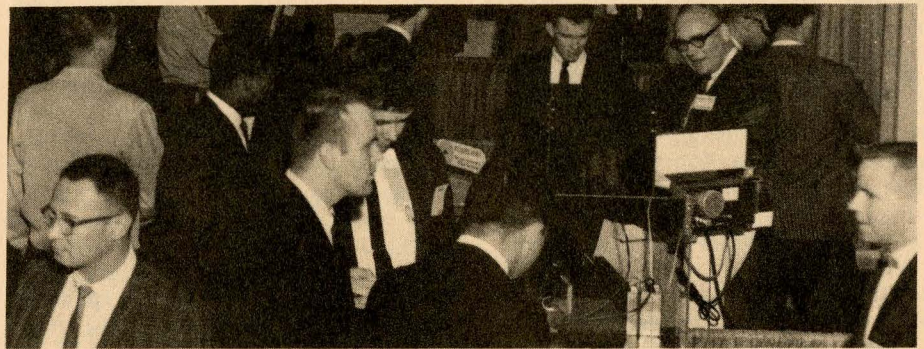
PLAN NOW TO ATTEND communications/74



OCTOBER 16, 17, 18

Hyatt Regency O'Hare, Chicago

Plan now to attend Communications / 74 and participate in an outstanding engineering education program. Communications / 74 will highlight new engineering developments in the communications industry bringing both current practices and new technology to the thousands of engineers who will be attending. The educational program will include eleven New Technology Seminars; Nineteen Technical Sessions; and an integrated 100 Paper Program covering a wide range of communication subjects.



30th Annual NEC National Electronics Conference and Exhibition

conference highlights

In recent years communications research and manufacturing resources in the Chicago Metropolitan Area have expanded dramatically and to the extent that the area is now recognized as the Communications Center of the World. NEC, aware of this important development, has expanded its services to the communications industry and the thousands of technical personnel working in this and related fields. The entire 30th Annual National Electronics Conference will be devoted to the theme COMMUNICATIONS/74.

- NEC has responded to the growing demand of engineers and managers for continuing education programs by developing a COMMUNICATIONS/74 program with maximum appeal for those individuals desiring to keep up-to-date with the rapid developments in communications and electronic engineering. While maintaining continuing programs of the conference, NEC will provide an in-depth treatment of communications subjects.

- A unique NEW TECHNOLOGY series of seminars will emphasize areas of vital concern to communications engineers and managers. The internationally recognized Annual NEC TECHNICAL PROGRAM of invited papers has been especially selected to emphasize the communications theme.
- To round out the program, a special effort has been launched to selectively attract meaningful, informative exhibits which will appeal to the communications engineer and manager. A program of NEW PRODUCT DISCLOSURES has been instituted to provide exhibits which will introduce new products at the conference of special interest in the area of communications.
- The ultra modern facilities of the Hyatt Regency O'Hare, site of COMMUNICATIONS/74, will include comfortable, well lighted meeting rooms and exhibition halls. The convenient hours — 10:00 a.m. to 5:00 p.m. — and a carefully scheduled programming of the NEW TECHNOLOGY seminars and the TECHNICAL PAPER PROGRAM make it possible for registrants to participate daily in a complete seminar program and view the latest products and developments on display in the exhibition area.

convenient exhibit hours

10:00 a.m. — 5:00 p.m. — Wednesday Thursday, Friday
— October 16, 17, 18

Technical Sessions Start at 10:30 a.m.

New Technology Seminars start at 8:30 a.m.

Exhibits: No Charge

New Technology Seminars: Advance Fee — \$45 each, 2 seminars - \$80

Technical Program (Papers) — Advance Fee - \$8 each

Send for Free Catalog

NATIONAL ELECTRONICS CONFERENCE

Oakbrook Executive Plaza # 1

1301 W. 22nd Street

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