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C A L E N D A R O F E V E N T S

For reservations call the IEEE office at 236-4609

(unless otherwise indicated)

COPY DEADLINE: FIRST WEEK OF MONTH PRIOR TO PUBN.

SEPT.	8	Monthly Meeting - ALL WELCOME	IEEE Executive Cte.	Brown & Root Offices 701 E. 22nd St. Lombard	Meeting	7:30 PM
	9	"Uninterruptible Power Systems"	Indus.Appls.Soc. & Industl. Electronic Control Instru. Soc.	Nielsen's Village 7330 W. North Ave. Elmwood Park	Social Dinner Meeting	5:30 PM 6:15 PM 7:15 PM
	16	MAIN Coordination Ctr.	Power Engrng. Soc.	Carson Pirie Scott Wabash & Monroe Sts. Highland Rm.2, 8th Fl.	Social Lunch Meeting	11:30 AM 12:00 PM 12:30 PM
	22	NRC's Regulatory Program	Northwest Sub. (j/w Power Engrng. Soc.)	Mr. Peters Banquets 1018 Mt.Prospect Plaza Rand & Central Rds.	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
	26	Tour - Chicago Tribune Printing Plant	Power Engrng. Soc.	435 N. Michigan Ave. Chicago	Tour	10:00 AM
	30	"Critical Path Method" (CPM)	Fox Valley Sub.	Wilton Manor 2200 Main St. Wheaton	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
OCT.	7	"Programmable Controllers"	Power Engrng. Soc.	Carson Pirie Scott Wabash & Monroe Sts. Highland Rm.2, 8th Fl.	Social Lunch Meeting	11:30 AM 12:00 PM 12:30 PM
	13	Monthly Meeting - ALL WELCOME	IEEE Executive Cte.	Brown & Root Offices 701 E. 22nd St. Lombard	Meeting	7:30 PM
	14	"AC Variable Speed Drives"	Indus.Appls.Soc. & Industl. Electronic Control Instru. Soc.	Nielsen's Village 7330 W. North Ave. Elmwood Park	Social Dinner Meeting	5:30 PM 6:15 PM 7:15 PM
	26-28	Natl.Comms.Forum- Natl. Electronics Conference/81	Natl. Engineering Consortium, Inc.	Hyatt Regency O'Hare River Rd. at Kennedy Expwy., Rosemont	(For inf., 325- 5700.) See ad on page 4.	

MAIN COORDINATION CENTER TOPIC AT POWER ENGINEERING SOCIETY KICK-OFF MEETING

The MAIN Coordination Center was established in April 1967 by Wisconsin, Illinois and Missouri Electric Utilities in the Mid-America Interpool Network (MAIN). Its principal responsibility is to insure that the region will meet its load responsibility with maximum interconnected system reliability. To accomplish this, the Center collects information on actual and expected system operating conditions and planned and forced outages of generation and transmission facilities. The meeting will be held on September 16 and will have as speaker, Thad Miller who has been with Wisconsin Power and Light in System Planning since 1974. He started his two-year assignment with MAIN (Lombard) in September 1980. Mr. Miller will discuss the Center's operation, its new computerized communication system and its future.

The Fox Valley Subsection will kick off its new season on September 30 with a meeting on the application of Critical Path Method (CPM) for planning and control of complex projects. The speaker will be Donald Baumgartner of Northrop Corporation.

The presentation will define CPM networking and discuss its origin and evolution from the original Polaris/PERT application. The why, hows and whens of applying CPM will be illustrated. Pitfalls of application, such as cross-functional involvement, computer-processing and reducing CPM data to a format useable for providing management visibility will be identified. Finally, the cost involved in CPM will be compared to the potential benefits which can be derived.

Mr. Baumgartner has spent the last 18 years with Northrop Corporation and has been responsible for developing planning and control systems for cost/schedule control, manpower planning and scheduling. He has applied and utilized these systems in managing a variety of development and production programs. See Calendar of Events for meeting location and time.

ABOUT DELIVERY OF YOUR SCANFAX . . .

From time to time, we receive complaints from members that their issue of Scanfax didn't arrive in time so that they could make reservations for a particular meeting. We regret this. We cannot guarantee delivery of the publication to your door. Therefore, we publish a 2-month Calendar of Events for YOUR convenience. In so doing, you are informed of upcoming meetings and you can mark your calendar accordingly.

"UNINTERRUPTIBLE POWER SYSTEMS" AT IAS/IECI MEETING

Data processing equipment, telecommunication systems and other electronic devices are sensitive to a wide variety of ac power line disturbances. This paper defines these disturbances and load equipment sensitivity and discusses the variety of equipment available to eliminate them from the power line. It addresses uninterruptible power systems (UPS) in detail and presents the cost/reliability tradeoffs involved in system selection. Typical UPS specifications and configurations will be presented at the Industrial Applications Society/Industrial Electronics Control Instrumentation meeting on September 9.

The speaker will be John Waterman, Vice President of Marketing for Franklin Electric's Programmed Power Division. He has been an active member of IEEE, most recently serving on the working group which authored IEEE-650-1979, a document defining the qualification of inverters and battery chargers for safety-related nuclear applications. He is currently a member of the NEMA committee drafting a UPS standard. Mr. Waterman has authored a number of technical articles in the power conversion field and is listed in the Who's Who in Technology Today.

At this meeting, IAS/IECI will begin an electrical trivia quiz in which an attendee can WIN A FREE DINNER (members \$11.00, non-members \$12.00). There is no charge for meeting attendance. See Calendar of Events for meeting location and time.

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John Tyner, Editor
Electrical Energy Management
(312) 469-5534

Tom Traub, Managing Editor
Commonwealth Edison Company
(312) 294-2703

Eleanore Burda, Copy Manager
IEEE Office
(312) 236-4609

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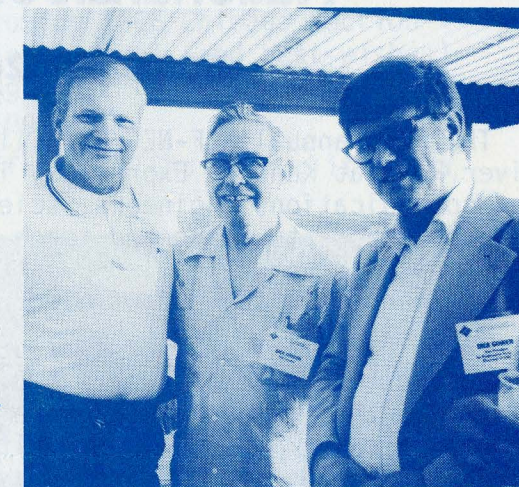
UPDATE

PROFESSIONAL ACTIVITIES COMMITTEE (PAC) MEETS IN MINNEAPOLIS

On July 10 through the 12th, the U.S. Activities Board held a meeting for all section PAC chairmen at the Radisson Hotel South near Minneapolis, Minnesota. Most of the incoming chairmen are new to the position and an indoctrination program was deemed necessary. In addition to the new section PAC chairmen (some of whom are women), the staff of the Washington, D.C. office, Regional chairmen and many of the IEEE officers were in attendance. Dick Damon, current President of the IEEE participated in the proceedings emphasizing the importance of the PAC activities to the Institute.

To appreciate the extent of these activities, the funding can be a gauge. Ten dollars from each members' dues is allocated to USAB programs which include: lobbying activities for portable pensions, energy programs, age discrimination and many others. The Chicago Section was represented by John Waters, former section chairman. When interviewed, Mr. Waters stated he would be expanding his committee and would like to hear from IEEE members who are interested in promoting PAC programs. He can be reached at the Bussmann Fuse Division, McGraw-Edison Company, (312/562-3370).

The National PAC Convention was not all work. Pictured above (l to r), John Waters, Chicago Section PAC Chairman, Dick Damon, IEEE President, and Dick Gowen, Chairman of USAB as they enjoyed a boat trip on Lake Minnetonka as a respite from the talks.



NRC'S REGULATORY PROGRAM

The Northwest Subsection, joint with the Power Engineering Society will have the Nuclear Regulatory Commission Director of the Division of Engineering and Technical Inspection, Charles E. Norelius as their speaker on the 22nd of September.

The general program of the Office of Inspection and Enforcement will be described. Recent changes to be highlighted include the program for the Systematic Appraisal of Licensee Performance (SALP) and NRC's Interim Enforcement Policy. The status of NRC's program for environmental qualification of electrical equipment will also be discussed.

Mr. Norelius has worked for the AEC/NRC for 19 years starting as an inspector in the area of radiation safety and working in positions of progressively increasing responsibilities. Currently, he directs a staff of approximately 70 which includes inspectors representing radiation safety, security and various engineering disciplines. The Division is responsible for specialist's inspections at facilities under construction. See Calendar of Events for meeting location and time.

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National Communications Forum National Electronics Conference

NCF/81
NEC/81

OCTOBER 26, 27, 28

The 37th annual NCF-NEC/81 will be held on October 26-28 at the Hyatt Regency O'Hare, River Road at Kennedy Expressway in Rosemont. The Conference is a forum where electronics and communications engineers, scientists and management representatives congregate to exchange ideas - to learn and teach - to gather information and to impart knowledge of others. It represents an unexcelled opportunity for the engineering professional to keep abreast of rapid changes in the art of electronics.

TECHNICAL PAPER SESSIONS - (26th) Human Factors in Telecommunications; Speech & Signal Processing; Computer Networks & Distributed Processing; Fiber Optics Technology & Applications; Synthetic Speech; Software Engineering; Future Directions in Communications Services, A Comparison of Perspectives & Alternatives; Cryptographic Authentication & Resource Protection • (27th) Surface-Acoustic-Wave Devices & Applications; Speech Recognition, Where are We Going?; Centralization of Telephone Switching Network Maintenance; Advances in Satellite Communications; Digital Signal Processing; Advances in Sensor Technology & Applications; Data Transport Networks; Enhanced 911 Network Planning • (28th) New Developments in Computer Graphics; An Expanded Digital Switching Architecture; Mini & Microcomputer Applications; Corporate Telecommunications Network; Personnel Issues Related to the Management of Technical Employees; Energy/Facility Management Systems; High Frequency Electronics. **NEW TECHNOLOGY SEMINARS** - (26th) Digital Switching Techniques & Systems; Security in Modern Communications Systems; Recent Advances in Outside Plant Technology; Current Use of Advanced Technologies in Electronic Assembly; Current Topics in Subscriber Loop Interfaces; Coping with Data Network Evolution Toward Integrated Voice/Data; Modern Telephone Transmission & Protection Test Equipment • (27th) System Reliability Strategies; Packet Switching Networks; Recent Advances in Operator Services Mechanization; Computer Assistance in Manufacturing; Telephone Company Experience with Digital Switching; Software Test & Validation; Impact of Standards & Regulatory Activities • (28th) New Computer Architectures; Preparing for the New Private Networks; Knowledge Worker Productivity; Non-Contact Manufacturing & Inspection; Trends in Digital Switching; Computer Performance Evaluation; Practical Applications of Digital Image Processing.

For further information, write or call: **NATIONAL ENGINEERING CONSORTIUM, INC.**
1211 W. 22nd St./Oak Brook, IL 60521/312:325-5700

-adv-

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-Adv-



HERE HE IS - YOUR NEW CHICAGO SECTION CHAIRMAN!

Dennis Lamont (l), incoming IEEE Chicago Section Chairman receives traditional gavel (and best wishes) from Paul Geiger, outgoing Chairman during July 7 Executive Committee meeting.

(Thanks, Paul for your efforts as Chairman - it was a job well done.)

THEY DIDN'T EVEN TAKE TIME TO POSE FOR A PICTURE! Following their installation, the new officers plunged right into the upcoming year's business. From left, Bill Everson, Secretary; Paul Geiger, outgoing Chairman; Dennis Lamont, Chairman; Howard Wolfman, Vice Chairman; and Bob Scheman, Treasurer.

(Photos by John Tyner, Scanfax Editor.)



HERE'S A CHANCE TO PUBLISH BEFORE YOU PERISH! CALL FOR PAPERS.

ASME-IEEE Joint Railroad Conference - April 19-22, 1982 - PA

Deadline: September 15, 1981

Contact: Dr. Richard A. Uher, Director, Rail Systems Center
Carnegie-Mellon University - Shennley Park - Pittsburgh, Pennsylvania 15213
412/578-2960

IEEE Region 5 Conference and Exposition - May 3-7, 1982 - CO

Deadline: September 15, 1981

Contact: Dr. Darrell Vines - Department of Electrical Engineering
U.S. Air Force Academy, Colorado 80840 - 303/472-3190

6th Topical Meeting on Integrated and Guided-Wave Optics - January 6-8, 1982 - CA

Deadline: September 15, 1981

Contact: Optical Society of America - Integrated Optics Meeting
1816 Jefferson Place, N.W. - Washington, D.C. 20036

IEEE International Solid-State Circuits Conference - February 10-12, 1982 - CA

Deadline: September 18, 1981

Contact: Lewis Winner - 301 Almeria/Box 343788 - Coral Gables, Florida 33134
305/446-8193

IEEE International Symposium on Circuits and Systems - May 10-12, 1982 - Italy

Deadline: October 1, 1981

Contact: Professor Ernest S. Kuh - Dept. of Electl. Engrng. and Computer Sciences
University of California - Berkeley, California 94720

The Intl. Symposium on Subscriber Loops and Services - September 20-24, 1982 - Canada

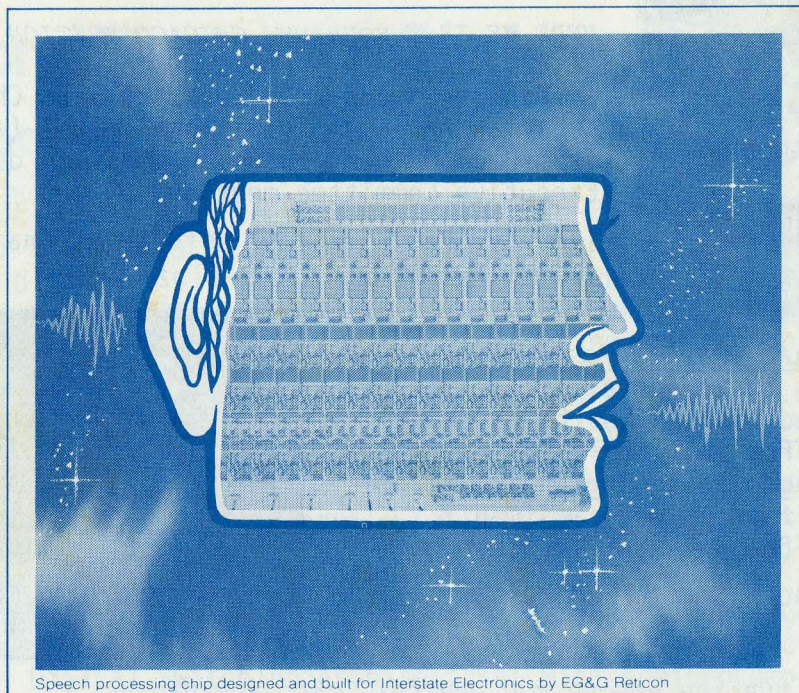
Deadline: October 1, 1981

Contact: Richard E. Mosher, ISSLS '82 Technical Chairman
American Telephone & Telegraph Company
295 North Maple Avenue, Room 3249B2 - Basking Ridge, New Jersey 07920

IEEE Region 3 Southeastcon '82 - April 4-7, 1982 - FL

Deadline: October 1, 1981

Contact: Alfred E. Bills - The Analytic Sciences Corporation
24 Hollywood Boulevard, West, Suite 1 - Fort Walton Beach, Florida 32548
904/244-7666



Making Silicon Talk ... and Listen!

A Tutorial on Speech Processing

November 9-13, 1981 • Santa Barbara, California

The Technology of the Future!

Three years ago the first "talking chip" product made its dramatic entry into the marketplace. Today, talking machines are about to become commonplace and machines that listen are becoming useful products.

Even the more conservative estimates predict a billion dollar market for speech products within a few years. New firms entering the field may well leapfrog the first generation.

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Making Silicon Talk ... and Listen includes:

- extensive lecture notes
- cassette demonstration tape
- demonstrations of commercial hardware & software
- evening workshop session on speech chip design
- postseminar update

Distinguished Lecturers

Robert W. Brodersen, UC, Berkeley; **Allen Gersho**, UC, Santa Barbara; **Peter N. Ladefoged**, UCLA; **Wayne A. Lea**, Speech Communications Research Lab; **John D. Markel**, **A. H. (Steen) Gray, Jr.**, and **David Y. Wong**, Signal Technology, Inc.

Collectively, these lecturers hold seven PhD's, have published hundreds of technical papers, and produced seven books related to speech; they are Fellows of three professional societies and have received several IEEE prize paper awards.

Who Should Attend

Engineers, programmers, and technical managers directly concerned with speech hardware design or application of existing speech chips to new products.

Seminar Information

Title: **Making Silicon Talk ... and Listen!**

Date: **November 9-13, 1981**

Fee: **\$925** (all materials included)

Location: **Miramar Hotel, Santa Barbara, California**

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