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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.

MAR. 10	Monthly Meeting ALL WELCOME	IEEE Executive Cte.	Brown & Root Offices 701 E. 22nd St. Lombard	Meeting	7:30 PM
11	Ladies Night "Im- proving Inter- Personal Skills"	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
11	"Load Management"	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
12	"Computer Graphics"	Computer Soc. (j/w ACM)	Standard Oil Bldg. 200 E. Randolph Dr. Chicago	Social Dinner Meeting	5:30 PM 6:30 PM 7:30 PM
16	"Theory/App'l. of a Null Synthesis Tech. to Planar Arrays"	Antennas & Prop./ Microwave Theory & Tech. Soc.	Louis Restaurant 351 E. Lake Addison	Social Dinner Meeting	5:30 PM 6:30 PM 7:30 PM
18	"UL's Standards for Safety"	Northwest Sub.	Mr. Peters Banquets 1018 Mt. Prospect Plaza Rand & Central Rds.	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
25	"Robotics"	Fox Valley Sub.	Ramada Elmhurst Inn 933 Riverside Dr. Elmhurst	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
APR. 8	"Concepts in Distributed Process Control"	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
8	"Cast Transformers"	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	"Satellite-Borne Radar for Monitor. Earth's Environ."	Antennas & Prop./ Microwave Theory & Tech. Soc.	Louis Restaurant 351 E. Lake Addison	Social Dinner Meeting	5:30 PM 6:30 PM 7:30 PM
14	Monthly Meeting ALL WELCOME	IEEE Executive Cte.	Brown & Root Offices 701 E. 22nd St. Lombard	Meeting	7:30 PM
25	MAC '81 (Midwest Acous. Conference)		Hermann Hall Ill. Inst. of Tech. Chicago		9:00 AM--5:30 PM (For inf., Tom Longwell, 745-1000)
25	Recognition Dinner	IEEE Chicago Sec.	Ramada-The O'Hare Inn 6600 Mannheim Rd. Rosemont	Social Dinner Enter.	6:00 PM 7:00 PM 8:30 PM
29	"CAT Scans"	Fox Valley Sub. (j/w Engrng. in Med. & Bio. Soc.)	Ramada Elmhurst Inn 933 Riverside Dr. Elmhurst	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM

METHOD OF DEVELOPING UL'S STANDARDS FOR SAFETY

The principal business of Underwriters Laboratories Inc. (UL), is to provide a service that can be summarized in three major objectives. 1) Evaluate products to determine that their design provides for reduction of risk of injury to persons and damage to property incident to their use; 2) Identify such products through a system of marking; 3) Audit production, as established through contractual arrangements, for conformance of the product to applicable requirements.

UL's Standards for Safety play an important part in their process of evaluation, identification and audit. On Wednesday, March 18, Albino Angonese, Senior Associate Managing Engineer for UL will discuss this topic at the Northwest Subsection's dinner meeting. See Calendar of Events for time and location.

ROBOTICS AND APPLICATIONS

On Wednesday, March 25, the Fox Valley Subsection will have a presentation by three knowledgeable speakers from Tomar Industrial, Inc., on the topic of Robotics. The speakers are: Thomas M. Fowler, President/Founder of Tomar Industrial, Inc., a company dedicated to Robotics, automation and specialists in the Mini-Robot applications; Sam Kory, Director of Operations for Robotics and Graphics at the Seiko Instrument Company; and Leonard Hallgren, Design Application Engineer and field electronic troubleshooter for Tomar.

The presentation will discuss the past, present and future of Robotics. A short movie will be shown regarding the Seiko Instrument Watch Line which has received awards for being the most completely automated Robotic line in the world. There will also be a look at some of the Mini-Robots that Seiko has to offer, as well as a question/answer period. See Calendar of Events for time and location.

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Professional Activity

UPDATE

PAC NEEDS YOU!

We need 4 or 5 IEEE members in each U.S. Congressional District who are willing to contact their U.S. Representative and ask for support of a critical issue that is being considered. Then when we learn that there is such an issue up for a vote, we could phone you and you, in turn, could contact your respective U.S. Representative. If you are willing to help, please call the IEEE Chicago Section office on (312) 236-4609 and give your name, phone number at work and at home, your U.S. Congressional District and your U.S. Representatives name.

Political involvement by the IEEE membership is absolutely essential, if we are to see such national bills as LERA reform come into being. Other issues on energy, pensions, innovation, patents, discrimination, wage busting, etc., may also require this kind of support. Call (312) 236-4609.

"ELECTRONIC MODIFICATION OF MUSICAL SOUNDS" TOPIC AT MAC '81

Following its tradition of providing in-depth coverage of important topics in audio and acoustics, the topic for the 1981 Midwest Acoustics Conference, (MAC), will be Electronic Modification of Musical Sounds. The Conference will be held at Hermann Hall, Illinois Institute of Technology in Chicago on Saturday, April 25 from 9:00 AM to 5:30 PM.

Featured speakers will be: Richard Schneider, Instrument Designer; Harald Bode, Bode Sound Company; Craig Anderton, Musical Electronics author and columnist; Richard Factor, Eventide Clockworks; Michael Beigel, Beigel Sound Labs; Dave Tarnowski, A/DA; Tom Oberheim, Oberheim Electronics; and Dr. Robert Moog, formerly of Moog Music.

Topics to be discussed will include Characteristics of Musical Sounds; History of Electronic Sound Modification; Electronic Sound Modification for the Performing Musician; Time Domain Sound Modification; Frequency Domain Sound Modification; Nonlinear Modification of Sound; Synthesizers; and a look at future trends.

This year's Conference is sponsored by the Chicago Acoustical and Audio Group; Audio Engineering Society; Chicago Regional Chapter of the Acoustical Society of America; Chicago Section of the Institute of Electrical and Electronics Engineers; and the IIT Research Institute.

Several manufacturers of state-of-the-art transducers, instrumentation and musical modification equipment will be exhibiting and demonstrating their products, in addition to the formal presentations planned.

For additional program and exhibitor information, contact Tom Longwell, Zenetron, Inc., 6501 West Grand Avenue, Chicago 60635, (312) 745-1000.

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IT WAS A VERY C-O-L-D EXHIBITORS NIGHT

The IEEE Industry Applications/Industrial Electronics & Control Instrumentation Society Exhibitors Night was held on February 11, 1981 at the Hillside Holiday Inn. A total of 38 suppliers purchased 53 tables and displayed products including wire, cable, process transformers, programmable controllers, motor controls, testing equipment and other electrical electronic devices. Both suppliers and attendees had to brave the elements of sub-zero weather to attend the show. Most vendors (minus those stranded in other cities) were able to participate.

The IAS/IECI Executive Committee would sincerely like to thank all those who did participate in the show.



IEEE 1981 RECOGNITION DINNER TO BE HELD ON APRIL 25

The social event of the year — IEEE Recognition dinner will be held on Saturday, April 25 to honor the members' achievements. Its success is due largely to the efforts of the Dinner Committee members and the cooperation of the electrical and electronics companies in the Chicago area who support this annual activity and, of course, *YOUR* attendance. Every member of the Chicago Section should make an effort to attend. This is an event not to be missed.

Once again, Ramada-The O'Hare Inn, Penthouse Ballroom in Rosemont is the locale for the Recognition Dinner. There has been no increase in the cost of the tickets from last year — they're still \$18.00 each (\$36.00 per couple) for which you get two cocktails, a delicious dinner, topflight entertainment and dancing. Tickets are limited so make your reservations *EARLY*.

Dinner Committee Members: CHAIRMAN, WILLIAM E. WILTSE, JR., Allen-Bradley Company; VICE CHAIRMAN, H. P. KORMAN, Noble U.S.A.; SECRETARY, ROBERT A. ANDERSON, Allen-Bradley Company; TREASURER, TREVOR HINCHLIFFE, Flolo Electric Company; PUBLICITY CHAIRMAN, ANDY GASIOROWSKI, Allen-Bradley Company; TICKET CHAIRMAN, JOE ALLEGRETTI, Englewood Electrical Supply Company; ARRANGEMENTS CHAIRMAN, CHRIS ZIOLA, Zenith Corporation; PROGRAM CHAIRMAN, DON SMITHANA, Kyocera, International. Solicitation Committee Members: CHAIRMAN, DAN PITTENGER, Zenith Corporation; JOHN WATERS, Bussmann Manufacturing Division, McGraw-Edison Company; THOMAS WAJDA, Northrup-Defense Systems; PAT BRAHOS, Northrup-Defense Systems. Institutional Co-ordinator: FRANK LAKOWSKI, Elite Electronic Engineers Company.

Date: SATURDAY — APRIL 25, 1981

Time: 6:00 P.M. (COCKTAILS) 7:00 P.M. (DINNER) 8:30 P.M. (ENTERTAINMENT)

Place: RAMADA-THE O'HARE INN PENTHOUSE BALLROOM 6600 MANNHEIM, ROSEMONT

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Mail reservation to: Joe Allegretti, Recognition Dinner Ticket Chairman
Englewood Electrical Supply Company
2121 South Mannheim Road, Westchester 60153
312: 626-3233

Enclosed is my check in the amount of \$ _____ covering _____ tickets at \$18.00 each (\$36.00 per couple) for the 1981 IEEE Recognition Dinner at Ramada-The O'Hare Inn in Rosemont.

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Digital Control

Palo Alto, CA May 4-6 • Washington, DC June 10-12



Dr. Franklin is well known as the coauthor of two superb texts on digital control: Ragazzini and Franklin's classic **Sampled Data Control Systems** and Franklin and Powell's new **Digital Control of Dynamic Systems**. He was elected a Fellow of the IEEE "for leadership in engineering education and for outstanding contributions in control theory and applications." As a Professor of Electrical Engineering, first at Columbia University and currently at Stanford University, Dr. Franklin has gained a reputation as a superb teacher and lecturer. Student comments include:

"Franklin takes complex topics and makes them appear simple . . . Excellent course — gives a good feeling for how this stuff really works — real applications."

Error Correcting Codes

With Applications to Computer System Design

Boston March 23-25 • Los Angeles, May 18-20 • Chicago June 22-24



Prof. E.J. Weldon, Jr. is known internationally as the co-author of two authoritative yet readable books: Peterson and Weldon's second edition of the classic text, **Error Correcting Codes** and Lucky, Salz and Weldon's often referenced **Principles of Data Communications**. Prof. Weldon's extensive practical experience allows him to translate complex mathematical coding techniques into circuitry which can be readily understood and implemented.

"Dr. Weldon was able to explain the intricacies of coding in clear, understandable terms. He's truly an outstanding lecturer." **Jerry Stockton, NAVSEEACTION PAC.**

"Prof. Weldon's knowledge of hardware and micro-computers made his lectures on coding extremely useful to me." **Neal Glover, Storage Technology Corp.**

Cryptography & Data Security

Chicago April 27-29 • Boston June 1-3

Los Angeles July 13-15 • Palo Alto, CA August 3-5

NEW One Day Executive Summary:

Chicago March 19 • Palo Alto, CA May 11 • Washington, DC May 28



Prof. Martin E. Hellman has earned international acclaim for his invention of the revolutionary new "Public Key" encryption systems. **TIME Magazine** says, "As a result of recent work by Stanford University scientists, ciphers that are for all practical purposes unbreakable can be produced easily. Says **Scientific American** columnist Martin Gardner: 'The breakthrough bids fair to revolutionize the entire field of secret communication'. . . . Hellman overcame this fundamental obstacle with a dazzlingly simple yet ingenious scheme." Prof. Hellman has also played a leading role in suggesting improvements to the National Data Encryption Standard (DES).

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