



Scanfax

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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.

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
	9	"Cybernetic Model of Man"	Computer Soc. (Res., call Tom Griest 282-2710)	Standard Oil Bldg. 200 E. Randolph Dr. Chicago	Social Dinner Meeting	5:30 PM 6:30 PM 7:30 PM
	13	"Satellite-Borne Radar for Monitor. Earth's Environ."	Antennas & Prop./ Microwave Theory & Techniques 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 Lombard	Meeting	7:30 PM
	23	"LCD Displays & Their Reliability"	Reliability Soc.	Midway Motor Lodge Rt. 83 & Higgins Rd. Elk Grove Village	Social Dinner Meeting	5:30 PM 6:30 PM 7:30 PM
	25	"UNIX"	Computer Soc. (Res., call Tom Griest 282-2710)	Standard Oil Bldg. 200 E. Randolph Dr. Chicago	Social Dinner Meeting	5:30 PM 6:30 PM 7:30 PM
	25	MAC '81 (Midwest Acoustics Conference)		Hermann Hall Illinois 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
MAY	9	Tour - Argonne National Laboratory	Northwest Sub. (Reserva. only)	Argonne Natl. Lab. 9700 S. Cass Ave. Argonne	Regis. Tour Lunch	8:30 AM 8:45 AM 12:30 PM
	12	Monthly Meeting	IEEE Executive Cte.	Brown & Root Offices	Meeting	7:30 PM
	13	"Monolithic Microwave Circuits"	Antennas & Prop./ Microwave Theory & Techniques Soc.	Louis Restaurant 351 E. Lake Addison	Social Dinner Meeting	5:30 PM 6:30 PM 7:30 PM
	13	"LaSalle County"	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
	16	Tour - Sargent & Lundy Model Shop	Fox Valley Sub. (Reserva. only)	55 E. Monroe, 19th Fl. Chicago	Tour	10:00 AM
	21	"Local Computer Networks"	Computer Soc. (Res., call Tom Griest 282-2710)	Standard Oil Bldg. 200 E. Randolph Dr. Chicago	Social Dinner Meeting	5:30 PM 6:30 PM 7:30 PM
	27	"Flight Control"	Fox Valley Sub. (j/w Vehicular Technology Soc.)	Ramada Elmhurst Inn 933 Riverside Dr. Elmhurst	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM

AP/MTTS CHAPTER TO HAVE DISTINGUISHED SPEAKER

At its April 13, 1981 meeting, the Antennas and Propagation/Microwave Theory and Techniques Society will have as its guest speaker, Dr. Fawwaz T. Ulaby, Director, Remote Sensing Laboratory, and distinguished professor of Electrical Engineering at the University of Kansas. He will lecture on "Satellite-Borne Radars for Monitoring Earth's Involvement."

Dr. Ulaby is a Fellow of IEEE and President of IEEE Geoscience and Remote Sensing Society (GRS-S). During the social hour and following the meeting, he will discuss, with interested individuals, the possibility of forming a Chicago Chapter of GRS-S. If interested, contact Dr. Ulaby at 913/864-4832 or Dr. Wolfgang Borner at 312/996-5489 before the meeting. Reservation deadline is April 10. See Calendar of Events for meeting location and time.

NORTHWEST SUBSECTION TO TOUR ARGONNE NATIONAL LAB

The Northwest Subsection will tour Argonne National Laboratory on Saturday - May 9, 1981. The itinerary will include Accelerators, Chemical Engineering (Solar Collector, Battery, and Coal Programs), Physics, Magneto-hydrodynamics, and Heavy Ion Fusion Systems. An orientation talk will precede the tour. Lunch in the Argonne Cafeteria will follow.

The orientation talk will begin at 8:45 AM in the Physics and Radiological Environmental Research Building Auditorium (Building 203). Participants should arrive for registration at 8:30 AM. Enter the laboratory grounds at the guard post off Cass Avenue, one to two miles south of I-55. Directions to Building 203 will be given at the guard post.

Reservations are necessary. When calling the IEEE office, remember to specify citizenship. The tour will be limited to the first 75 people who call in. The deadline for reservations is April 30. See Calendar of Events for tour location and time.

JIM ROMAN TO SPEAK ON "LCD DISPLAY AND THEIR RELIABILITY"

The topic of the Reliability Society meeting on April 23, 1981 will be "LCD Displays and their Reliability." Guest speaker will be Jim Roman from General Electric Company's Liquid Crystal Displays operation. He is currently Manager of Quality Control and Quality Assurance at GE's LCD operation and is a 1972 graduate of Cleveland State University with a BS in Electrical Engineering. Reservations must be received prior to April 20. See Calendar of Events for meeting location and time.

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Change of Address

A change of address form is included in each issue of SPECTRUM. Your local post office will also supply you with cards; mail to Roseann Schulz, Member Services, IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854. Include your SPECTRUM mailing label if possible. We cannot forward this information for you, so please do not send it to the local office.

Professional Activity

UPDATE

LEGISLATION INTRODUCED TO 97th CONGRESS

Legislative activity in areas of interest to IEEE has begun in the 97th Congress, with several bills from the previous Congress already reintroduced.

Bills in the House that are of concern to IEEE's U.S. Activities Board include a bill to establish individual retirement accounts (H.R.191), a bill to create a National Science Council for risk assessment (H.R.638), and a capital formation act (H.R.897).

In the Senate, bills have been introduced concerning Federal consultant costs (S.61), nuclear waste management (S.95), tax credits for R&D (S.98), reduction of capital gains taxes (S.145), a savings and investment incentives act (S.155), a patent term restoration act (S.255), the savings and retirement income incentives act (S.243), and the lifting of restrictions on Western Union's providing international service (S.271).

If you are willing to give support to bills such as these, when called on, by contacting your U.S. Representative or U.S. Senator, please call the Chicago Section IEEE at 312/236-4609 and give us your name, phone number and U.S. Congressional District. You will then be an IEEE Minuteman and be notified when such support is needed.

Vote! CHICAGO SECTION 1981-82 ELECTION

The Chicago Section Nominating Committee composed of Charles Hatstat, Chairman together with George Austin, Michael Barnes, Paul Jahn, Bert Orszula and John Waters has selected the following slate of candidates for Section Officers and Executive Committee Members for the 1981-82 term. Please mark your choices on the ballot below. If you wish to vote for another member, write the name in the space provided and check the box.

OFFICERS (Vote for four)

Chairman	Vice Chairman	Treasurer	Secretary
☐ Dennis Lamont Weldy/Lamont Assoc., Inc.	☐ Howard Wolfman Teletype Corp.	☐ William Everson Commonwealth Edison Co.	☐ Robert Scheman A T&T Long Lines
☐	(Write-in)		

EXECUTIVE COMMITTEE (Vote for eight)

☐ Michael Barnes Motorola, Inc.	☐ Charles Borchert Bell Tele. Labs.	☐ Jim Grotelueschen Motorola, Inc.	☐ Henry Korman Noble U.S.A.
☐ Bert Orszula Brown & Root, Inc.	☐ Cliff Torbert Honeywell, Inc.	☐ John Tyner Cleworth Pubns.	☐ John Waters Bussmann Mfg.
☐	(Write-in)		

Mail the ballot to: Charles Hatstat, IEEE Office, 125 South Clark Street, Room 1545, Chicago, Illinois 60603. Ballots must be received no later than April 15, 1981. Results will be announced in the May issue of Scanfax.

AMERICAN SOCIETY OF SAFETY ENGINEERS

ASSE

Como Inn - Chicago, IL (12:00 - Noon)
546 Milwaukee Avenue

April 13, 1981

Biomechanics of Industrial Back Injuries

Featuring:

Dr. Albert Schultz, Ph.D
University of Illinois Circle Campus

May 11, 1981

Alcoholism & Drug Abuse in Industry

Featuring:

Bill Schleicher
Western Electric

CONTACT:

Tom Honn, (312) 996-2530
Cost: \$7.00

AMERICAN SOCIETY FOR QUALITY CONTROL

ASQC

May 13, 1981

Como Inn - Chicago, IL
546 Milwaukee Avenue

This year's awardee is Mr. John Blazejak. John has been active in ASQC Chicago Section for many years and has held offices including that of President of the Chicago Section. Currently, John is Director of the Training Institute. The Institute offers a comprehensive program for training quality technicians, engineers and managers.

CONTACT:

Mr. Frank Colby
C/O Chicago-Allis Mfg. Co.
113 N. Green St.
Chicago, IL 60607
(312) 666-5050

COMING EVENTS

CATS Society Survival seminar is being presented again this fall. This seminar is designed to help officers and committee chairman to carry out functions common to all societies. It will be held for a full day including lunch. Subjects to be discussed are operations, communications, finance and membership.

For information contact: Mr. Bob Swanson, (312) 889-1447.

CATS Welcomes to Membership: Society of Women Engineers (SWE)

This society founded in 1952 has 122 members in the Chicago region along with 5 active student chapters. National membership numbers 8,000. The awards conveyed are the S.W.E. Achievement Award, Illian Moller Gilbreth Scholarship and others.

For membership information contact: Ann Jakiela, (312) 864-8631.

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FOX VALLEY SUBSECTION TO TOUR SARGENT & LUNDY MODEL SHOP

In the forefront of Sargent & Lundy's modern engineering design services, is the Model Shop. Students visit to get a look at career opportunities, while clients come to see how scale modeling of a power plant project pays for itself through savings resulting from the elimination of design interferences, the capability to plan erection sequences and schedule manpower, and the use of the model for early training of operations personnel.

On Saturday - May 16, 1981 the Fox Valley Subsection will tour S&L's Model Shop which is the major center of power plant modeling in the Midwest and has one of the most modern equipment arrangements in the modeling industry. Its staff of 14 permanent personnel, all trained in engineering modeling technology, includes a core of modelers with major A-E experience. Its program for recruiting new personnel incorporates what is perhaps the country's first college cooperative program in engineering modeling, a 2-semester arrangement with Stark Technical College located in Canton, Ohio.

The Shop's 16,000 square foot area currently displays four active 1/2 inch scale fossil fuel models as well as a 1/6 inch scale model of Sargent & Lundy's 600-700-MW reference design coal-fired unit.

The tour will be limited to 40 people. Reservations are necessary. See Calendar of Events for tour location and time.

IAS/IECI SEMINAR AT FERMI LABS RESCHEDULED

The Industry Applications/Industrial Electronics & Control Instrumentation Society has announced that the Seminar which was to be held sometime in May 1981 at Fermi Laboratories in Batavia has been rescheduled; new date is December 1981.

CSC '81 HAS SECOND CALL FOR PAPERS

The Chicago Spring Conference on Consumer Electronics to be held June 3-4, 1981 at the Arlington Park Hotel has issued a second call for papers. Papers are needed in all areas of Consumer Electronics. Especially solicited are papers concerning Automotive Electronics, Teletext, Multichannel TV Audio, Video Disc/Tape, and CATV. Length limited to 20 minutes of oral presentation and approximately 2,500 words for the published version. Deadline is March 21. Submit abstracts to: Ken Lundgren, Papers Committee, Motorola Display Systems, 455 East North Avenue, Carol Stream 60187, (312/690-1400, extension 256).



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Error Correcting Codes

With Applications to Computer System Design

Los Angeles May 18-20 • Chicago June 22-24 • Washington, DC Oct. 26-28



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, NAVSEEACTPAC.**

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

VLSI Design

An Approach to Custom Integrated Circuit Design

Palo Alto, CA April 27-29 • Boston June 22-24 • Los Angeles July 13-15



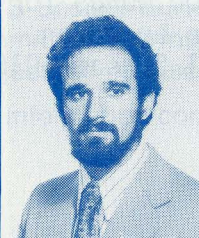
Carlo H. Sequin is Professor of EECS and Associate Chairman for Computer Sciences at the University of California, Berkeley. He is known internationally for his work on VLSI design and coauthored the first book on Charge Transfer Devices (Academic Press). At Berkeley and Xerox PARC he has pioneered an interdisciplinary approach that makes custom IC design accessible to computer scientists and systems designers. This seminar now makes this revolutionary approach available to a much wider audience. No previous background in IC design is assumed. Rather, a background in logic design, computer science or systems is all that is required to gain an understanding of IC fabrication technology, MOS design methodology, and the skills needed for custom IC design.

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:

Palo Alto, Ca May 11 • Washington, DC May 28 • Los Angeles September 14



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).

Hotel Reservations

Palo Alto Holiday Inn
(415) 328-2800

Los Angeles Holiday Inn
(213) 540-0500

Washington Holiday Inn
(703) 521-1600

Boston Marriott
(617) 969-1000

Hyatt Regency O'Hare
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CH-4

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