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(Publication number)
(ISSN 0018-9227)

SCANFAX, 125 S. CLARK ST., CHICAGO, IL 60603

Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • September 1979

CALENDAR OF EVENTS

For reservations call the IEEE office at 236-4609 (unless otherwise indicated)

COPY DEADLINE: FIRST OF THE MONTH

SEPT. 5	"IEEE U.S. Activities Board." Where Our \$50,000 Goes	Fox Valley Sub. (j/w Industl. Appls. Soc.)	Elmhurst Inn 933 Riverside Dr. Elmhurst	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
11	Monthly Meeting - ALL WELCOME	IEEE Executive Cte.	Brown & Root Offices 2001 Spring Rd. Oak Brook	Meeting	7:30 PM
18	"Product Liability - Case History Invol. an Electl. Appl."	Reliability Soc. (Call Ray Schirmer, 647-8800, x 2718)	Holiday Inn Algonquin Rd/Rt 53 Rolling Meadows	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
19	"Interrupting Capacity"	Northwest Sub.	Mr. Peters Rest. Rand Rd. (Shop.Mall) Mount Prospect	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
22	Tour-Edison Crawford Sta. "Energy from Refuse"	Power Engrng. Soc.	Commonwealth Edison 3501 S. Pulaski Rd. Chicago	8:30 AM--5:00 PM	
OCT. 3	"Vehicular Locating Systems"	Fox Valley Sub. (j/w Vehicular Technol. Grp.)	The Tally-Ho Rest. 27W103 North Ave. (Rt.64), West Chgo.	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
8	To be announced	Antennas & Prop./			
9	Monthly Meeting - ALL WELCOME	IEEE Executive Cte.	Brown & Root Offices 2001 Spring Rd. Oak Brook	Meeting	7:30 PM
10	"Energy Management in Process Industries"	Indus. Appls. Soc. (j/w Power Engrng. Soc.)	Nielsen's Village 7330 W. North Ave. Elmwood Park	Social Dinner Meeting	5:30 PM 6:15 PM 7:15 PM
18	Speaker: Dan McCracken (subject to be announced)	Computer Soc. (Call Ralph Wallace, 647-9000)	Standard Oil Bldg. 200 E. Randolph Dr. (Cafeteria), Chgo.	Social Dinner Meeting	5:30 PM 6:30 PM 7:30 PM
24	"Controll. Electrostatic Damage to Electronic Circuits"	Reliability Soc. (Call Ray Schirmer, 647-8800, x 2718)	Holiday Inn Algonquin Rd/Rt 53 Rolling Meadows	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
27	Seminar-"Power Electronic Appls. in Power Systems"	Power Engrng. Soc.	Fermilab Kirk Rd. & Pine Batavia	8:30 AM--5:00 PM	

IEEE ballot is mailed to you in late August. Ballots must be returned by November 1.

Your opinion counts

Vote!

Vote!

IEEE IS YOUR ORGANIZATION. SHOW IT BY VOTING.

"INTERRUPTING CAPACITY" - What Is It And Why Do We Need It?

The Northwest Subsection will kick off the 1979-80 series of monthly programs on Wednesday - September 19, 1979. The speaker will be John Waters of the Bussmann Manufacturing Division, McGraw-Edison Company. His subject will be Interrupting Capacity.

The talk will primarily relate to 600 volt and less electrical distribution systems and the protective devices used in these systems. Mr. Waters' talk will be supplemented with a slide presentation emphasizing the need for upgrading of present electrical systems due to the higher short circuit currents provided by the utility companies.

The meeting will be held at Mr. Peters Restaurant, Rand Road, north of Central Avenue (shopping mall) in Mount Prospect. Social hour 6:00 PM, dinner 7:00 PM and meeting 8:00 PM. Call Eleanore at 236-4609 for reservations.

RELIABILITY PRESENTING "PRODUCT LIABILITY" BY ATTY. GETZOFF

On Tuesday - September 18, 1979 the Chicago Chapter of the IEEE Reliability Society is sponsoring a presentation by William M. Getzoff of the Illinois Bar Association. His topic will be Product Liability - A case History Involving an Electrical Appliance.

Mr. Getzoff will present the development of an actual case involving an electrical dryer where the consumer was electrocuted and suit was brought against the company. Each stage of the case, from analysis, filing of the claim, trial strategy, to verdict, will be discussed. Included will be claims-handling and costs involved. A question/answer period will follow. Both members and non-members are welcome. Dinner cost is \$7.50 (including tax and gratuity) and will be held at the Holiday Inn, Rolling Meadows at Algonquin Road and Route 53 (near Woodfield). Social hour 6:00 PM, dinner 7:00 PM and meeting 8:00 PM.

For information and reservations, call Ray Schirmer, Reliability Chairman at 647-8800, extension 2718.

BETTER LATE THAN NEVER

At the Recognition Dinner of the Chicago Section IEEE held on April 28, 1979, Michael Barnes, Student Activities Chairman presented Certificates of Appreciation to student chapter officers. They are: Joseph Donnelley, Chairman, Northwestern University; Michael Bomer, Secretary, Illinois Institute of Technology; James Fisher, Chairman, University of Illinois Chicago Circle.

Pictured (left to right), Michael Barnes, Joseph Donnelley, James Fisher and Michael Bomer.



SCANFAX, (Publication number) (ISSN 0018-9227), September 1979-Volume 32, Number 10, SCANFAX is published monthly, except July and August by the Chicago Section, Institute of Electrical and Electronics Engineers for the information of its members. Business office is at 125 S. Clark St., Chicago, Illinois 60603, telephone number (312) 236-4609. Subscription rate for IEEE members collected in dues, \$1.50; for others, \$3.00 per year. Second-class postage paid at Chicago, Illinois.

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FROM ONE CHAIRMAN TO ANOTHER

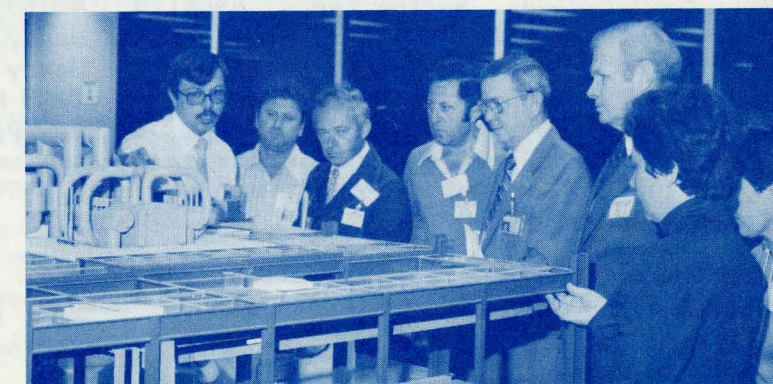
"Into thy hands, Chuck Hatstat (left), I pass the gavel. I know the Chicago Section will benefit greatly with you as its 1979-80 Chairman. Remember, the gavel has a cushioned end, too. Good luck and best wishes." So said John Waters, outgoing Chairman at the meeting of the Executive Committee on July 17, 1979. (Editor's note: Thanks, John for the time and effort you gave as 1978-79 Chairman. Your many ideas kept the Chicago Section's direction ever onward and upward.)



Pictured at the July 17, 1979 Chicago Section Executive Committee meeting held at the Allen-Bradley Company, are (from left, clockwise): John Waters, Paul Geiger, George Stout, Lance Hillstrom, Robert Scheman, Allen Kaphengst, Wayne Bretl, Robert Rockwell, John Staunton, Michael Barnes, Bert Orszula, Charles Pocius, Martha Evens, Henry Thompson, Charles Brigham, Hank McGreer, Dennis Lamont and Charles Hatstat.

ISRAELI GROUPS TOUR S&L AND EDISON

A tour of the U.S. by 14 Israeli electrical engineers included a stop at Sargent & Lundy and Commonwealth Edison Company's Crawford Station. The trip was sponsored by the IEEE and the Chicago visit was hosted by Section Chairman, Charles Hatstat, John Waters, Past Chairman and Paul Jahn, Chairman, Professional Activities Committee. Tour guides included Norm Shipley and John Sellers. Other IEEE Israeli groups are also touring the U.S. and will be making visits to Sargent & Lundy and Commonwealth Edison Company.



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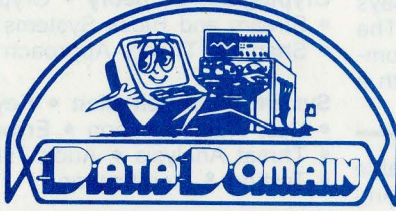
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New concepts in high-technology electronics provide the focus as the Midcon Electronics Convention/Exhibition returns to Chicago, November 6-8, 1979. Design engineers, managers and technicians will participate in three days of exhibits, professional programs and special activities - all designed around the theme "Electronics Enters the Eighties." O'Hare Exposition Center will function as the exhibit hall, while the Hyatt Regency O'Hare Hotel will be the site for more than 120 professional presentations on developments in engineering, electronics and career topics of interest to industry leaders.

O'Hare Expo Center will be filled by more than 500 booths representing 300-plus companies. Specific exhibit areas, individually color-coded include: components, micro-electronics and fiber-optics; instrumentation and control systems; production, packaging, test equipment; and mini and micro computers and EDP peripherals. Hours will run from 9:30 AM to 6:00 PM on November 6-7; 9:30 AM to 5:00 PM on the 8th. Professional sessions will be held at 10:00 AM and 2:00 PM each day.

Midcon/79 is a non-profit show and convention jointly sponsored by the Chicago and Dallas Sections of the IEEE, IEEE Regions 4 and 5 and the Mid-USA Council, ERA, along with the Chicagoland and Southwest Chapters of the ERA.

Detailed information covering registration, etc., will be given in the October issue of Scanfax.



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Cryptography & Data Security

Washington, D.C., October 29-31 — Dallas, November 7-9
New York City, December 10-12 — Los Angeles, January 28-30

Data encryption is now the cheapest, most convenient and least disruptive method for guaranteeing the security of data communications and storage. Expertise on this vital new technique is urgently needed by every organization that handles valuable or confidential data. Ensure that **your** organization can intelligently and effectively take advantage of important new data security methods including the National Data Encryption Standard and the Public Key and Trap Door techniques.

Time Magazine: "The code breakers may finally have met their match. 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* Mathematics 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."

Over 400 people have attended this seminar and extremely favorable comments were received from attendees with backgrounds ranging from the military to financial worlds.

"Dr. Hellman did an excellent job in presenting the material which not only met the needs of the conferees that desired some detail, but also kept the interest of those like myself who did not require such a high level of detail. My knowledge of cryptography and data security has increased many fold."

Mr. Wilbur E. Rice, Staff Supervisor, A T & T Long Lines.



MARTIN HELLMAN

This intensive special seminar is presented by Martin Hellman, who more than anyone, has been at the center of the recent whirlwind of developments in cryptography. He has earned an international reputation for his invention of the revolutionary new Public Key and Trap Door encryption methods. In addition, he has played the leading role in proposing improvements to the NBS Data Encryption Standard (DES). His background includes research with IBM, MIT and Stanford University and extensive consulting. Dr. Hellman is also a gifted speaker able to present complex material in an easily understood and readily applied manner. He is currently an Associate Professor at Stanford University.

This Special Seminar is intended for managerial and technical staff working in the communications, data processing, or security areas, with current or potential responsibilities for implementing, specifying, or authorizing security measures for the protection of data. A degree in engineering, science or mathematics (or equivalent background) would be useful to fully benefit from the more technical material.

Topics

Basic Concepts • Commercial Applications
• Capabilities & Limitations of Cryptography
• Vulnerability of Communications
• Privacy Legislation

Cryptographic Systems • IBM Systems and the National Data Encryption Standard (DES)
• Public Key Cryptosystems • Digital Signatures
• Voice Scramblers

Cryptographic Theory • Cryptanalytic Threats
• Stream and Block Systems • Trap Doors
• Shannon Theory Approach

System Implementation • Key Management
• User Authentication • Error Control
• Threat Analysis • Audit Trails
• Testing & Certification

Application Examples • Networks & Distributed Processing • EFTS • Electronic Mail
• Telecommunications & File Encryption

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Registration form

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