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TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations call the IEEE office 649-2800
(unless otherwise indicated)

Copy Deadline for June Scanfax is April 24, 1989

MAY 3	PES-Report of the Society President	Power Eng. Society	Carson Pirie Scott Lower Level Monroe & Wabash Chicago, IL	Social: 11:30 AM Lunch: 12:00 PM Talk: 12:45 PM
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MAY 3	Open Forum on EMC Issues	EMC Society	AT&T-Bell Labs Naperville Road Naperville, IL	Social: 7:15 PM Meeting: 7:30 PM
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MAY 9	Monthly Meeting All Welcome	IEEE Executive Committee	Contemporary Controls 2500 Wisconsin Downers Grove, IL	Meeting: 7:15 PM
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MAY 10	Industrial Software	IAS/IES Society	Hackney's 241 S. Milwaukee Ave. Wheeling, IL	Social: 5:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
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MAY 17	Applications of Neural Networks to Medical Signal Processing	Comm. Society	AT&T 150 North Martingale Schaumburg, IL	Elections & Meeting: 7:00 PM
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MAY 18	Future of UV and VUV Lasers	Lasers and Electro-Optics Society	Allen Center Northwestern University Evanston, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
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Continued on Page 5

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SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
JUNE	APR 24	MAY 15
-----	VACATION	-----
SEPT	JULY 25	AUG 15
OCT	AUG 29	SEPT 15
NOV	SEPT 26	OCT 15
DEC	OCT 31	NOV 15

THESE ARE FIRM DEADLINES!!!!

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Bob Hofmann, Editor
Room 2B 220
AT&T Bell Labs
2000 N. Naperville Rd.
Naperville, IL 60566
(312) 979-3627

James Carroll, Assoc. Editor
(312) 416-7277

Steven Hofmann, Copy Editor
(312) 979-4247

Ed Barrett, Advertising Director
171 Warwick Drive
Glendale Heights, IL 60139
(312) 297-5540

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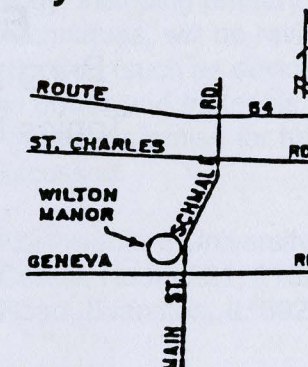
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FOX VALLEY SUBSECTION

together with
/usr/group/chicago
and the
IEE Computer Society

TOPIC: Computer Security
DATE: Wednesday, May 24, 1989
SPEAKER: Douglas Price
PLACE: Wilton Manor, Schmale Rd., Wheaton
TIME/COST: Social: 6:00 PM - Cash Bar
Dinner: 7:00 PM - \$11.00
Speaker: 8:00 PM - Free



RESERVATIONS: Call (312) 649-2800 to make reservations for Dinner and/or Meeting, by Monday, May 22, 1989.

TECHNICAL QUESTIONS: Direct questions about our topic or speaker to Dorene Lehner at (312) 979-6778.

ABSTRACT: The Press has recently been filled with reports of computer break-ins, worms, viruses and other electronic vermin that have infested the world's computer systems. As business, research, and society become increasingly dependent on computer systems for day-to-day functioning, the risks of malicious damage to these computer systems accelerate. Alteration or destruction of data, or denial of service concerns every computer user, irrespective of the size of their machines.

The presentation surveys the common risks and weaknesses present in existing computer systems, and scaled collection of protections and procedures that will assist in securing these assets against intrusion. While 100 percent solutions may not be possible or economical, simple procedures can go a long way towards deterring attack.

ABOUT OUR SPEAKER: Douglas H. Price has a degree in Communications from the University of Wisconsin, Madison. He is a member of the Association for Computing Machinery, and is president of /usr/group/chicago, the local chapter of /usr/group, an organization focused on the UNIX(r) operating system. He is currently a Consultant with Analysts International Corp. based in Minneapolis, MN, with a branch office in Schaumburg. His recent activities have included the planning and development of high speed networking for a Fortune 100 firm, specializing in security and batch file transfer.

EMC Society Meeting

Wednesday – May 3, 1989

AT&T Bell Labs

Naperville Rd. & Wheaton Rd.

7:15 – Social 7:30 – Meeting

EMC Open Forum

Bring your questions, topics, etc.

Topics to be discussed will include:

New FCC TP-5

Immunity Testing

Mil Stds vs FCC

VDE/CISPR Testing



IEEE Lasers and Electro-Optics Society CHICAGO CHAPTER



- TOPIC:** Future of UV and VUV Lasers
- DATE:** Thursday, May 18, 1989
- SPEAKER:** Prof. J. Gary Eden, Gaseous Electronics Laboratory, Department of Electrical and Computer Engineering, University of Illinois-Urbana.
- ABSTRACT:** The status of UV and VUV laser technology, including primary source development and nonlinear conversion techniques, will be reviewed. Pressing issues demanding near-term attention (such as device reliability, gaps in existing source wavelengths, and power and materials issues) as well as areas which appear to hold the greatest promise for future research and applications will also be discussed.
- AGENDA:**
- | | | |
|---------------|-----------|---|
| Social: | 6:00 PM | Northwestern University, Allen Center, Room 221, 2169 Sheridan Road, Evanston, IL 60208 |
| Presentation: | 6:30 p.m. | |
| Dinner: * | 8:00 p.m. | Szechwan Palace, 1627-29 Chicago Avenue, Evanston, IL 60203 |
- DIRECTIONS:** From Chicago: Take Lake Shore Drive North to Sheridan Road. Turn right at Sheridan Road traveling North. (Keep right at all bends and turns for 5 miles.) Northwestern campus is on Sheridan Road.

The Allen Center is in the middle of Northwestern campus. Turn right off Sheridan Road at large parking lot. Parking lot road ends at the Allen Center.

*Entree choices will be made on an individual basis from the menu. Approximate cost – \$10 per person. Advance dinner reservations should be made by calling the IEEE Chicago Message Center at 649-2800 by 5:00 p.m. on May 16, 1989. For additional information, call Tom Windhorn at 961-7922.

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CALENDAR OF EVENTS

Continued from front cover

MAY 22	Spectral Summation Methods	AP/MTT Society	Harvey's Prime Rib 331 E. Ogden Ave. Westmont, IL	Social: 5:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
MAY 24	Computer Security	Fox Valley/Computer Society	Wilton Manor Geneva Rd. & Main St. Wheaton, IL	Social 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM

ELECTRICAL TRAUMA: BIOPHYSICAL MECHANISMS OF TISSUE INJURY AND CLINICAL CONCEPTS

An International Symposium hosted by
The University of Chicago Pritzker School of Medicine

JULY 13 & 14, 1989

Sponsored by:
The Electric Power Research Institute
The IEEE Engineers in Medicine and Biology Society
The American Burn Association
and the Energy Laboratory of MIT

under the direction of Raphael C. Lee, M.D., Sc.D.

Purpose: To congregate clinical and research scientists active in the field of electrical trauma, to review the clinical facts about electrical injuries, to discuss new concepts on the biophysical mechanisms of cellular injury and to determine priorities for future research.

Topics that will be discussed include:

- Anatomic patterns of tissue injury by electric shock;
- Physiologic responses to electric trauma;
- Thresholds for lethal cell damage by heating;
- Lysis of cell membranes by intense electric fields;
- Diagnostic changes in tissue electrical properties;
- Clinical techniques to rescue injured tissue;
- Electrical safety concepts.

Location: The symposium will be held at the Knickerbocker Hotel, Walton Place, Chicago

For Further Information Contact: The Center for Continuing Medical Education
The University of Chicago
5841 S. Maryland Ave., Box 139
Chicago, Illinois 60637

PLACEMENT SERVICE

The Chicago Section is now offering a Placement Service for its members free of charge. The program is intended for those who are Member Grade and above and is a positive step to help our members who are unemployed. If interested in any of the applicants listed below, call the IEEE office 649-2800 for their name and phone number. If marked "confidential," the applicant will be contacted by the IEEE office so that he/she may contact the prospective employer.

- | | |
|-----|---|
| 176 | An Associate-Professor with 6 years of experience seeking a faculty position in Electronic Engineering or Technician Program. |
| 177 | BSEE-UIC - Seeking entry level position with emphasis on μ processor-based systems and related software. |
| 178 | Seeking electromechanical - design drafting - familiar with AutoCad, IBM5080, CADAM, Computervision. |

INDUSTRY APPLICATIONS SOCIETY INDUSTRIAL ELECTRONICS SOCIETY CHICAGO CHAPTER

IES/IAS
May 10, 1989 Wednesday
INDUSTRIAL SOFTWARE

Speaker: Representative of Tele-Denken Resources, Inc.

Our speaker will cover advances in PLC
Program Emulation, Process Modeling, Testing
Software and other software tools for higher
industrial productivity.

Location: Hackney's in Wheeling
241 S. Milwaukee Ave.
Wheeling, Illinois

Time: Social 5:30 P.M.
Dinner 6:30 P.M.
Speaker 7:30 P.M.



Reservations are required for the dinner and are requested for the meeting portion only. Please call the IEEE office at 649-2800 by May 8 for reservations.

REPORT FROM YOUR SECTION CHAIRMAN

Our recently revived Consumer Electronics Chapter and Acoustics, Speech & Signal Processing Chapter have decided to form a joint Chicago Chapter to serve this members; we wish them much success. Incidentally, they — as well as the Power Engineering Society (PES), the Product Safety Committee of the Electromagnetic Compatibility (EMC), and the Engineering in Medicine & Biology (EMB) Chapters — will be co-sponsoring an IEEE/EMB conference on Electric Trauma at the University of Chicago (July 13 - 14, 1989).

After attending several recent Chapter and Subsection meetings, we are still puzzled how to attract attendees reasonably consistently. Our program planners have been trying their utmost to select interesting topics where our guest speakers will be welcomed by a large enough audience. For example, 80 attended Computer Society's Fermi Lab tour, with its close-up view and detailed explanation of the hunt for subatomic particles using sophisticated data acquisition and reduction schemes. But only nine (9) came to the next Computer meeting which discussed patents from the inventor's point of view. This is an important professional issue rarely cited in our IEEE publications, except as a typical part of the credentials for electoral candidates. In fact, some of our own members have decried our lack of attention to important professional issues affecting our profession, yet most of them did not support our efforts by attending (or at least express their personal regret at their inability to come to this meeting).

This recent experience poses some difficult questions: Are our members really concerned with professional issues, other than some imminent changes in state regulations affecting Professional Engineers and licensing? What about "age discrimination" or "portable pensions" or ethical problems (such as "whistle-blowing")?

Unless we hear from our members to the contrary, should we limit our topics to recent technological advances, to tutorial presentation, and to tours of some local R&D facilities?

By the way, have any of you tried the new phone line to IEEE Hq in NJ to correct an address, order a publication, or clear up the mystery why you missed some transactions? Call 800-678-IEEE if we cannot answer your question here!

Joe Feitler (312) 979-8023 or (312) 505-9100 at x277 or FAX 505-9133

IEEE Communications Society Chapter, Chicago Section MEETING NOTICE

On Wednesday May 17, 1989, the IEEE Communications Society will meet at 7:00 p.m. in order to elect chapter officers followed by a technical presentation. We will meet at the AT&T auditorium, 150 North Martingale, Schaumburg, Illinois.

The following slate has been selected:

Chairperson - Kenneth Smolik	Vice Chairperson - Adam Efron
Treasurer - Kenneth Karow	Secretary - Vijay Garg
Program Coordinator - Richard Jaeger, Jr.	

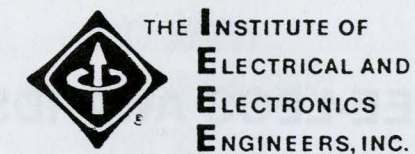
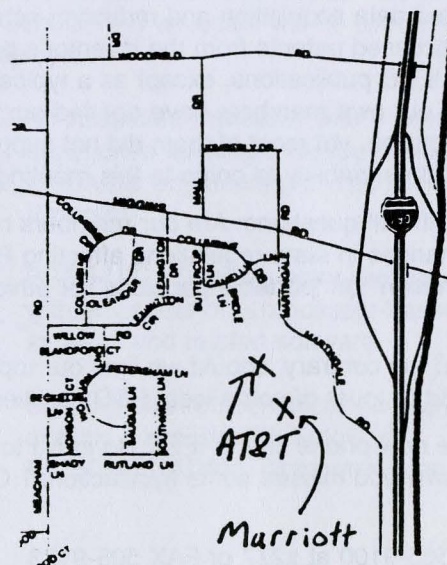
If you wish further information about the slate or you wish to nominate others for office, please contact Maurice Givens at (312) 933-5289.

In addition to the officer elections, Professor Daniel Graupe will speak on the Applications of Neural Networks to Medical Signal Processing. Professor Graupe teaches at the University of Illinois, is an Associate of Michael Reese Hospital, and is a Fellow of the IEEE. He has written numerous papers in this area and is a leading expert in this field.

Please attend this important meeting to support your chapter.

Agenda:	Election of officers
followed by	Professor Graupe's presentation
Date:	Wednesday, May 17, 1989
Place:	AT&T, 150 North Martingale, Schaumburg, IL
Time:	7:00 PM
Cost:	FREEBEE!

If you are not a member, we encourage you to attend for this most informative presentation by Professor Graupe. For further information, contact Ken Smolik at (312) 416-4789. Although reservations are not necessary, they are preferred. For reservations, call the IEEE Office at (312) 649-2800.



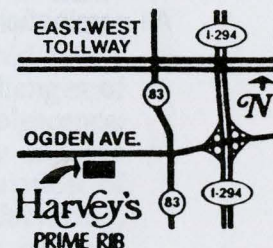
JOINT CHICAGO CHAPTER OF IEEE ANTENNAS & PROPAGATION SOCIETY AND MICROWAVE THEORY & TECHNIQUES SOCIETY

MAY 1989 MEETING NOTICE

SPECTRAL SUMMATION METHODS FOR PULSE PROPAGATION AND TRANSIENT SCATTERING ANALYSES

By: Thomas Wong

Date:	May 22, 1989	Time:	Social - 5:30 PM
Place:	Harvey's Prime Rib		Dinner - 6:30 PM
	331 E. Ogden Avenue		Meeting - 7:30 PM
	Westmont, Illinois		
	(Two miles west of I-294 on Ogden Avenue)		



Abstract:

The availability of high-power pulse sources and high-speed detectors has stimulated much interest in the transient analysis and characterization of electromagnetic systems and devices. Spectral transform based analytical techniques coupled with numerically efficient computation methods provide an effective means for the treatment of dispersion and dissipation phenomena. The use of proper asymptotic representations enables a considerable reduction in the number of discrete spectral components necessary to achieve a given accuracy, especially in the early-time region. Applications of the formulation to the analyses of pulse dispersion and delay in GaAs MESFET and MMIC, as well as the scattering of electromagnetic pulses by elementary dissipative objects are presented.

Speaker:

Thomas Wong received the B.Sc. (Eng.) degree from the University of Hong Kong in 1975, the M.S. and Ph.D. degrees from Northwestern University in 1978 and 1980, respectively. He was a Product Engineer at Motorola Semiconductor, Inc. from 1975 to 1976. At Northwestern University, he participated in establishing the Microwave Characterization Laboratory, and carried out transport and dielectric studies on ionic conductors, polymers, and ceramics. In 1981, he joined Illinois Institute of Technology, where he is now an associate professor and the director of the graduate program in the Electrical and Computer Engineering Department. He has served as the Secretary-Treasurer, Vice-Chairman, and Chairman of the IEEE Joint Chicago Chapter of AP-MTTS.

The dinner is optional. A reservation is helpful even if you plan to attend the talk only. Reservations may be made by calling 649-2800 before noon on May 19. Student members are encouraged to attend meetings. Dinner for student members is available for the nominal charge of \$1.00. Non-IEEE members are also welcome.

IEEE-LEOS AWARDS

The Chicago Chapter of the IEEE Lasers and Electro-Optics Society (LEOS) will be accepting nominations for both an Individual Achievement Award, and an Outstanding Product Award.

The Individual Achievement Award is designed to reward the lifetime achievement of an individual in the Chicago-area who has advanced the knowledge or understanding of lasers and/or electro-optics.

The Outstanding Product Award should reward a new product, introduced by a Chicago-area company within the last five years, that has had a positive impact in the marketplace.

Neither the nominees or nominators are required to be members of IEEE-LEOS. All nominations should be received by the awards committee by May 12, 1989. The awards will be announced at the annual banquet of IEEE-LEOS on June 16, 1989.

All nominations should be sent to:

H.S. Hinton
AT&T-Bell Laboratories
Room 2F-235
200 Park Plaza
Naperville, IL 60566
(312) 416-5044

IIT Hosts 8th International Conference on Magnetic Materials

CHICAGO, Feb. 24, 1989 — Improved production methods of magnetic materials, such as electrical steels, and new methods of non-destructive testing, using magnetic methods, are among the topics which will be addressed at the Annual Conference on Properties and Applications of Magnetic Materials, hosted by Illinois Institute of Technology (IIT), on May 16-18, 1989. This is the eighth year IIT has sponsored this highly successful meeting of magnetic materials users and suppliers, providing research managers, engineers, and scientists a unique opportunity to meet and discuss their future needs. The conference features both workshop discussions and the presentation of seminar papers.

Along with IIT, the conference is co-sponsored by the IEEE Magnetics Society and by the Small Motor Manufacturers' Association.

For additional information about the conference, please contact Dr. Henry P. Messinger, Department of Electrical and Computer Engineering, IIT Center, Chicago, IL 60616; 312/567-3400.



POWER ENGINEERING SOCIETY

IEEE POWER ENGINEERING SOCIETY

SPEAKER: Wallace B. Behnke, Jr.
Vice Chairman
Commonwealth Edison Co.

TOPIC: Report from the President of the Power Engineering Society

ABSTRACT:

For at least the next several decades, electric power is certain to play an increasingly critical role in the nation's energy economy. Unfortunately, power surpluses in many parts of the country, together with a preoccupation with financial and regulatory issues, have masked underlying trends, which unchecked, could spell trouble in the mid-1990's when the electric power industry is expected to face the triple engineering challenges of the next construction cycle, corporate restructuring and technological obsolescence. Several of the more significant forces reshaping the electric power industry include demand, deregulation of the electric power industry include demand, deregulation of the electric utilities, globalization of electric power equipment manufacturing, environmental concerns and new technology. Professional societies will play a primary role in assisting their members in adapting to the challenges and changes of the next decade. The speaker will outline the agenda with which The Power Engineering Society is preparing itself for the 1990's.

BACKGROUND:

Wallace B. Behnke, Jr. (B.S. '45 - B.S.E.E. '47) is President of the Power Engineering Society. He joined Commonwealth Edison Company soon after graduating from Northwestern University. He served in a number of engineering and administrative posts before being elected Vice President in 1969, Executive Vice President in 1973 and Vice Chairman in 1980. He serves on a number of boards including Commonwealth Edison Company, Calumet Industries, Duff & Phelps Selected Utilities, Inc., and Tuthill Corporation. He is also a Trustee of Illinois Institute of Technology, Director of the United Way of Chicago, and serves on the Board of Governors for Argonne National Laboratory. He is past president and honorary member of the Western Society of Engineers, is a Fellow in the IEEE and member of the American Nuclear Society and the National Academy of Engineering. A registered engineer in Illinois, he was elected Electric Industry Man of the Year for 1984.

PLACE: Carson Pirie Scott - Chicago (Monroe and Wabash);
Corporate (lower) Level

DATE: May 3, 1989

TIME: 11:30 Cocktails
12:00 Lunch (Cost \$9.00 per person)
12:45 Presentation

Reservations may be made by calling the IEEE Chicago message center at 649-2800. Please leave name(s) and company name(s) for those wishing to attend.

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Data Processing Cable (High Speed)	Phase Matched Cable Assemblies
Delay Lines	Point of Sale Cable
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Fiber Optic Adaptors	Power Limited Fire Alarm Cable
Fiber Optic Attenuators	Power Limited Fire Protective Signaling Cable
Fiber Optic Coil Cords	Process Control Cables
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High & Low Temperature Cables	Robotic Cables
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