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TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

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

Copy Deadline for March Scanfax is January 30, 1989

FEB. 1	Computer Automated Measurement and Control	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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FEB. 9	Lasers in Chemistry at Argonne	Lasers and Electro-Optics Society	Argonne Labs Chemistry Bldg. 200 9700 South Cass Ave. Argonne, IL	Tour: 5:00 PM Talk: 6:15 PM Dinner: 7:30 PM
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FEB. 14	Monthly Meeting All Welcome	IEEE Executive Committee	Contemporary Controls 2500 Wisconsin Downers Grove, IL	Meeting: 7:15 PM
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FEB. 15	Practical Stress Management	IAS/IES	Allgauers Hotel & Fireside Restaurant 2855 Milwaukee Ave. Northbrook, IL	Social: 6:00 PM Dinner: 7:00 PM Talk: 8:00 PM
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FEB. 22	Guided Wave Optical Switching	Northwest Subsection	Mr. Peters Banquets 1018 E. Mt. Prospect Plaza Rand & Central Mt. Prospect, IL	Social: 6:00 PM Dinner: 7:00 PM Talk: 8:00 PM
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Continued on Page 7

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Send change of address to Roseann Schulz, Member Services, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854-4150. Include your SCANFAX mailing label if possible. We cannot forward this information for you, so please do not send it to the local office.



Joint Meeting IEEE Lasers and Electro-Optics Society CHICAGO CHAPTER and Optical Society of Chicago



DATE: Thursday, February 9, 1989

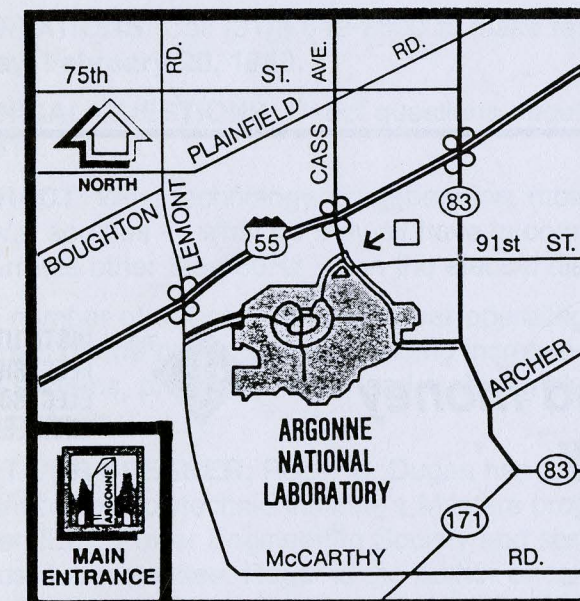
TOPIC: Lasers in Chemistry at Argonne

SPEAKER: Dr. Jan P. Hessler, Argonne National Laboratory

AGENDA: 5:00 p.m. - Lab Tour
6:15 p.m. - Presentation

7:30 p.m. - Dinner*

Argonne National Laboratory
Chemistry, Building 200
9700 South Cass Avenue
Argonne, IL 60439
Ripples
8025 Cass Avenue
Darien, IL (312-960-1600)



Visitors should take the south-bound Cass Avenue exit off I-55, then turn right on Northgate Road. This will take them to the Main Gate and the Visitor's Reception Center where a gate pass will be issued. Foreign citizens must show proof of citizenship in a non-Soviet bloc country.

Turn right at Outer Circle Drive. Proceed to Inner Circle Drive, then turn right, cross Meridan and meet at Chemistry, Bldg. 200.

WASHINGTON AWARD DINNER — FEBRUARY 22, 1989

As done for the past several years, the Western Society of Engineers (WSE) has invited your Chairman to sit at the head table for their 1989 Washington Award Dinner, with the encouragement of IEEE's Awards Committee in New York.

WSE's prestigious award will be given to Dr. Sherwood L. Fawcett, the former Chairman and Chief Executive Officer of Battelle Memorial Institute Columbus, OH. Battelle has a staff of over 8100 scientists and support specialists engaged in research, education, and technology development activities. Dr. Fawcett has a BS in Engineering Physics from Ohio State University, as well as the MS and PhD degrees in Physics from Case Institute (now Case-Western Reserve University) in Cleveland.

This event will be at the Union League Club at 65 W. Jackson Blvd. in Chicago. An informal reception starts at 5:30 p.m., followed by the dinner at 7 p.m. Any Section members interested in attending should contact WSE at 372-3760 for tickets priced at \$37.50 per person.

* Entree choices are Roast Beef or Pasta Primavera. Cost is \$13.50 per person. Advance reservations are required to attend the dinner, and to enter the facilities at Argonne National Laboratory. Please call the IEEE Message Center at 649-2800 by Noon on Monday, February 6, 1989 for reservations. State your name, phone number, choice of entree if attending the dinner, and country of citizenship. For additional information, call Tom Windhorn at 961-7922.

REPORT FROM YOUR SECTION CHAIRMAN

We have been busy with promoting meetings and special events for the next several months:

Engineers Week in late February,
the Recognition Dinner on May 6th,
Chapter and Subsection meetings,
a Student Chapter joint conference (SPAC)
several tours of notable area facilities (such as Fermilab and Argonne),
more joint meeting cosponsored by our newer chapter and the older ones,
another Section Seminar later this year (if our members show interest),
encouraging more national conferences in the Chicago area,
MIDCON 1989 in Chicago,
a slate of Section Officers and Committee Chairmen for next year,
and much more.

We also look forward to supporting the activities focusing on Product Safety, at present under the aegis of our EMC Chapter.

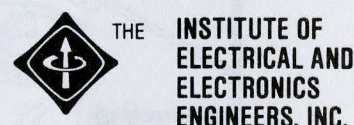
But all of these programs rely on *our members* for planning and organizing them, but even more importantly on *your* attending them to show your appreciation to your officers and committee chairpeople.

Headquarters is promising us a new way to distribute membership data using electronic mail, diskettes, Bulletin Boards — stay tuned!

Joe Feitler

***“Every man
owes a part of his time and money
to the business or industry
in which he is engaged.
No man
has moral right to withhold
his support from an organization
this is striving to improve
conditions within his sphere.”***

—President Theodore Roosevelt — 1908



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FOX VALLEY SUBSECTION

**together with the
IEEE POWER ENGINEERING SOCIETY**

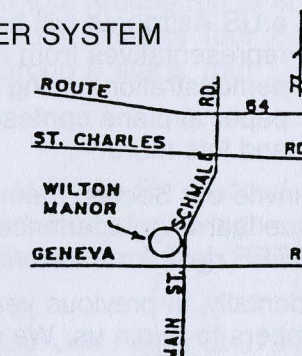
Topic: HARMONICS on the ELECTRIC POWER SYSTEM

Date: Wednesday, February 22, 1989

Speaker: Roger C. Dugan

Place: Wilton Manor, Schmale Rd., Wheaton

Time/Cost: Social: 6:00 p.m. — Cash Bar
Dinner: 7:00 p.m. — \$11.00
Speaker: 8:00 p.m. — Free



RESERVATIONS: Call (312) 649-2800 to make reservations for Dinner and/or Meeting, by **Monday, February 20, 1989.**

TECHNICAL QUESTIONS: Direct questions about our topic or speaker to John Gavin on (312) 627-1919.

ABSTRACT: Wind technology, co-generation, motor controllers, arc furnaces, AC/DC converters, static Var sources — what do they all have in common? They all produce harmonics — voltages and currents other than 60Hz — on the electric distribution system.

As the number of devices with non-linear operating characteristics grows, so does the level of harmonics on the power system, yielding increased concerns for equipment life, accuracy of control systems, protective relays and metering plus inductive coordination of telephone and power systems.

ABOUT OUR SPEAKER: Roger C. Dugan has a BSEE from Ohio University and is a graduate of the Rensselaer Polytechnic Institute's Masters program in Power Engineering. He is a Senior Member, IEEE Power Engineering Society and serves on the IEEE Computer and Analytical Methods Subcommittee. Roger is the author or co-author of over 20 IEEE papers. He currently is a Staff Engineer with the Systems Engineering Department of McGraw Edison Power Systems.

IEEE TO PARTICIPATE IN ENGINEERS WEEK 1989 CELEBRATION AT IIT-WEST

IIT-West will be the host for a 2-day Engineers Week event (2/24 and 2/25) at its Glen Ellyn Campus (Building M at College of DuPage, 22nd Street and Lambert Rd). The Chicago Section will staff an information desk and provide some financial support, in addition to participating in the planning efforts for, the past several months.

On Friday afternoon the focus will be on junior high-school students while Saturday afternoon's activities will appeal to high-school students. We want to stimulate the young people's—and their parents' and guidance counselors'—interest in mathematics, science, and engineering careers:

SCITECH will provide several fascinating exhibits
a US Astronaut will be there to discuss our space efforts
representatives from most of the local Engineering Societies will be available
demonstrations using IIT's Personal Computer laboratory
paper airplane contest
and lots more

We invite our Section members, their families, and their friends to participate in this unique learning experience; we also need some of our members to take a turn at our IEEE desk for answering questions.

Incidentally, in previous years we convinced several former IEEE Student Chapter members to rejoin us. We also delight in meeting fellow engineers from other disciplines. IEEE comprises the largest professional group of engineers in the world, but we are not the only engineers in the area!

Please contact Howard Wolfman at 470-2111 or Joe Feitler at 979-8023 if you want more information or how to pre-register your student for this event.

"1989-90 Section Officers Nominated"

The nominating committee announced the following slate of officers for the July 1, 1989 through June 30, 1990 Term of Office at the December Executive Committee meeting.

Chairman	Robert Schrage
Vice-Chairman	George Stout
Treasurer	John Truitt
Secretary	Barry Brusso
Member Services	Robert Tervin
Publication	Bob Hofmann
Professional Activities	John Waters
Conference	Howard Wolfman
Program	Art Eagen
Student Activities	Cara Lindell
Finance	Len Cohen
Special Events	Henry Korman
Awards	Carl Kannewurf

CHICAGO CHAPTER OF THE IEEE COMPUTER SOCIETY

Invites you to a Guided Tour of Fermilab (formally known as the *Fermi National Accelerator Laboratory*) on Batavia Road in Batavia, IL.

We plan two pairs of 2-hour tours to keep each group under 40 people:

Tour 1 — visit the Lab facilities

Tour 2 — see one of the experimental areas for detecting particle collisions produced by the high-energy beam.

Place: Meet in lobby of 15-story "high-rise" building on Batavia Road
Date: Saturday, February 25, 1989
Time: 8:45 A.M. Meet your guides for the two tour groups (up to 40 each)
 9:00 A.M. Group A starts Tour 1 and Group B starts Tour 2
 11:00 A.M. Group A starts Tour 2 and Group B starts Tour 1
 1:00 P.M. End of tours

TRAVEL DIRECTIONS: go west on Illinois Tollway (I-88) to exit at Route 59; proceed north on Route 59 to Batavia Road, turn left (west) into Batavia Road which leads to the high-rise building; ample parking available around the building; enter via steps (at the national flags) leading from the two lagoons.

For additional information or more detailed direction please contact Joe Feitler at 979-8023.

RESERVATIONS: Fermilab's Public Relations office needs a count of prospective visitors no later than 2/10/89, with the request to limit each tour group to 40 people. Therefore please notify our IEEE Message Center (649-2800) by 2/9/88 if you want to come.

Due to safety considerations, any visitor should be at least 16 or a high-school student.

If your plans change, please notify the Message Center ASAP to allow any people on our waiting list to join us.

SPECIAL NOTE: The tour of the experimental area is being arranged by Joe Feitler's son-in-law, Dr. Paul Karchin of Yale University. As a Visiting Scientist he is asking his staff members to explain their experiment to us in an area normally not accessible to visitors. We are most grateful for this special opportunity offered to IEEE, as well as to Fermilab's Public Relations staff.

CALENDAR OF EVENTS

Continued from front cover

FEB. 22	Harmonicas on the Power System	Fox Valley Subsection/ Power Eng. Society	Wilton Manor Schmale Rd. Wheaton, IL	Social: 6:00 PM Dinner 7:00 PM Talk: 8:00 PM
FEB. 25		Computer Society	Fermi Lab. Main Bldg. Batavia Rd. Batavia, IL	Tour: 8:45 AM

SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
Mar	Jan 30	Feb 15
Apr	Feb 27	Mar 15
May	Mar 27	Apr 15
June	Apr 24	May 15

THESE ARE FIRM DEADLINES!!!!

New Advertising Rates Effective 1/1/89				
Unit	W x H	1 time	5 times	10 times
1 page	7 3/8" x 10"	\$500.00	\$450.00	\$400.00
2/3 horz	7 3/8" x 6 5/8"	400.00	360.00	320.00
1/2 horz	7 3/8" x 4 7/8"	320.00	290.00	260.00
1/2 vert	3 1/2" x 10"	320.00	290.00	260.00
1/3 horz	7 3/8" x 3 1/4"	260.00	235.00	210.00
1/4 horz	7 3/8" x 2 3/8"	210.00	190.00	170.00
1/4 vert	3 1/2" x 4 7/8"	210.00	190.00	170.00
1/6 horz	3 1/2" x 3 1/4"	170.00	155.00	140.00
1/6 horz	3 1/2" x 2 3/8"	140.00	130.00	120.00
1/10 horz	3 1/2" x 2"	120.00	100.00	80.00
1 page	back cover	\$650.00	\$600.00	\$550.00

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.

- 171

S2 - Entry level position in Electromagnetics and/or controls. MSEE, BS & MS physics. Experience in Fortran.
- 172

BSEE EIT seeking entry-level Electrical Engineer position — C, Fortran, Basic, Assembler pursuing MSEE.
- 173

Analog/Digital Analysis & Design — SPICE Modeling - Programming (C, Basic, Assembly)
- 174

MS DOS Computer Maintenance/ Electronic Design Automation/ Programming.

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IEEE ELECTRON DEVICES SOCIETY

Northwest Subsection

Joint Meeting of the Electron Devices Society and the Northwest Subsection

February 22, 1989

"Guided Wave Optical Switching"

by J. R. Erickson
AT&T Bell Laboratories

This talk will discuss several photonic switching devices and how they can be integrated into sytem applications. As a result of the increasing number of optical fibers in local networks, many lightwave interconnections will have to be redesigned. The switching of wideband lightwave paths optically avoids costly optical-to-electrical conversions and high-speed electronic switches. Guided wave optical switches can be used in space, time, wavelength, or code type applications where the type of information to be switched most likely will include high-definition television, graphics, and data transmission. The most efficient near-term application is a wideband local area network.

J.R. Erickson received a BSEE Degree from Utah State University in 1982, and a MEngr. in Electrical Engineering from Cornell University in 1983. He is presently at AT&T Bell Laboratories, Naperville, Illinois.

- Place:

Mr. Peters Banquets
1018 E. Mt. Prospect Plaza
Rand and Central Roads
Mt. Prospect, Illinois
- Time:

6:00 P.M. Social, Cash Bar
7:00 P.M. Dinner \$11.00 with reservation by February 17
\$12.00 without reservation
8:00 P.M. meeting — All welcome, no charge
- Reservations:

Call the IEEE Office at (312) 649-2900

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As of 11/89 our new phone number will
be 708 699-9060

The Industry Applications Society sponsored Industrial and Commercial Power Systems Conference will be held in Chicago on May 7-11, 1989. Those who would like information or details on the conference should send their name and address to:

Dennis Lamont
Lamont/Weldy Associates, Inc.
1008 East Northwest Hwy.
Mount Prospect, IL 60056

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G1

IEEE



POWER
ENGINEERING
SOCIETY

Speaker: Robert T. Cleary

Please address reply to:

Topic: Why Computer Automated Measurement and Control, CAMAC (IEEE-583) for Utilities

Abstract:

CAMAC is a recognized international standard for data acquisition and control. It is ideally suited to meet many of the power utilities' needs. These include high point density, high data throughput, easy configuration in stand-alone as well as distributed environments, and multi-vendor support with a wide variety of available off-the-shelf I/O and system modules.

Because of the high electrical noise environment, the CAMAC fiber optic Serial Highway is an ideal approach for distributed systems. Processing can be included at the individual I/O chassis. These chassis can be separated by 10,000 feet of fiber optic cable. Also, one or more of the CAMAC I/O chassis in a system can be "floating" at one million volts or more.

Background of Speaker:

Robert T. Cleary (M'63--SM'64) has over 25 years experience in electronic design. He began his career with GTE Automatic Electric as a co-op student in 1955. After receiving a B.S.E.E. degree from the Illinois Institute of Technology, Chicago, in 1960, he developed many products for GTE. These include a number of new interface products for voice and data communication networks. As a result of these developments, he has been granted 18 U.S. and 24 foreign patents. He was a co-founder of KineticSystems in 1970 and held the position of Vice President, Engineering, until 1982 when he was promoted to Executive Vice President. He has been responsible for many CAMAC-related engineering development at KineticSystems, including those associated with the serial and parallel highways.

Date: February 1, 1989

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

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.

NOTICE! NOTICE! NOTICE! - The April meeting is changed from April 5, 1989, to April 12, 1989.

Power and Life



THE
INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

INDUSTRY APPLICATIONS SOCIETY INDUSTRIAL ELECTRONICS SOCIETY

✿ CHICAGO CHAPTER ✿

IAS/IES Social Meeting A Non-Technical Program of Interest to Spouses and Guests

February 15, 1989

"A Balanced Approach for Stress Management"

PRACTICAL STRESS MANAGEMENT

Low productivity, lack of energy, or burn-out can often be traced to one of the three primary stress management areas (Nutritional/Physical/Emotional). Knowing the practical management techniques in each of these three vital areas will generate results.

Guest Speaker
J. DANIEL MATHEIN

Internationally known as a consultant, keynote speaker and motivational trainer, Mr. Mathein brings to the podium 26 years of experience in business management, marketing, training, program development and public speaking. His presentations integrate practical knowledge, humor, hard facts and motivation for personal improvement. Dan's lectures are not only easy to listen to, but more importantly, easy to remember and worth your time.

LOCATION: Allgauer's Fireside Restaurant
2855 Milwaukee Avenue
Northbrook, IL

TIME: 6:00 Refreshments
7:00 Dinner
8:00 Speaker

Reservations

Reservations are required for dinner seating and are recommended for seating for the meeting portion of the program. Please call the IEEE office at 649-2800 by February 13 for reservations. The dinner is \$14.00