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TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations call the IEEE office 255-3003
(unless otherwise indicated)

Copy Deadline for June Scanfax is April 25, 1988

APR. 27	Management Issues for 1990's	Joint Meeting Notice Eng. Man./ Prof. Comm. Chapter	Wilton Manor Schmale Rd. Wheaton, IL	Social: 6:00 PM Dinner: 7:00 PM Speaker: 8:00 PM
APR. 28	Trends in Local Area Networks (LANS)	Communications & Computer Societies	Wilton Manor 2200 Main St. Wheaton, IL	Social: 6:00 PM Dinner: 6:30 PM Meeting: 7:30 PM
MAY 9	A Glimpse of Antenna Technology – Past to Future	A&P Joint with Microwave Theory & Technique Society	Louis' Restaurant Addison, IL	Social: 5:50 PM Dinner: 6:30 PM Meeting: 7:30 PM
MAY 10	Monthly Meeting All Welcome	IEEE Executive Committee	Allen Bradley Co. 910 Pasquinelli Dr. Westmont, IL	Meeting: 7:15 PM
MAY 11	Industrial Power Line Noise	IAS & IES	Mr. Peter's Restaurant Mt. Prospect, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
MAY 11	Chicago-O'Hare People Mover Project	Power Engineering Society	Carson Pirie Scott Highland Room – Corporate Level-Chicago	Rec: 11:30 AM 12:00 Noon Meeting: 12:45 PM \$11.00 per person
MAY 12	New Age of Microlasers	Lasers and Electro-Optics Soc.	Amoco Research Ctr. Warrenville & Herrick Rds. Naperville	Social: 6:30 PM Dinner: 7:10 PM Talk: 8:00 PM
MAY 17	High T_c Superconductors	Electron Devices/ Northwest Subsection	Mr. Peter' 1018 E. Mt. Prospect Rd. Mt. Prospect	Social: 6:00 PM Dinner: 7:00 PM Talk: 8:00 PM
MAY 17	EMC Receiver Characteristics	Electromagnetic Compatibility Soc.	AT&T Bell Labs Naperville & Warrenville Roads	Social: 7:15 PM Talk: 7:45 PM

Continued on Page 9

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Unless otherwise specified, Chicago Section IEEE neither endorses nor sanctions any positions or actions espoused in SCANFAX.

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Change of Address

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



THE INSTITUTE OF
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CHICAGO CHAPTER

IEEE/IAS MEETING – MAY 11, 1988

Presentation By: Michael Z. Lowenstein
Manager, Research and Development
Myron Zucker, Inc. Royal Oak, Michigan

Mr. Lowenstein received an AB degree from Oberlin College and a MS and PhD in physical chemistry, physics and instrumentation from Arizona State University. Lowenstein spent 13 years as a chemistry professor at Adams State College and eight years managing national solar energy research programs at The Solar Energy Research Institute. He is a member of IAS/IEEE.

Program Topic: CONTROLLING HARMONICS WHILE IMPROVING POWER FACTOR

Low power factor has historically been improved by the application of capacitors at the load. Power factor improvement has been made more difficult by the widespread use of non-linear SCR controlled equipment (such as rectifiers, induction heaters, static power convertors, and DC and AC adjustable motor drives) leading to increased harmonic distortion in power distribution systems. Symptoms of harmonic problems include: premature motor or capacitor failures; nuisance fuse blowing; overheating conductors and transformers; and malfunctioning controls or computers. In this talk the interactions between electrical systems, power factor capacitors, and non-linear convertors will be examined and a method of improving power factor while avoiding problems with harmonic distortion will be described. Several case histories will be detailed.

AGENDA

Social: 6:00 P.M.
Dinner: 7:00 P.M.
Meeting: 8:00 P.M.
Location: Mr. Peter's Restaurant
1018 Mount Prospect Ave.
Mount Prospect, IL

Reservations:

Please call Judy Larson at Association Management, (255-3003). Make reservations by Tuesday, May 10, 1988.

The cost of the dinner is \$13.00. There is no charge for attending the meeting only.

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Nov	Sept 26	Oct 15
Dec	Oct 31	Nov 15
Jan 89	Nov 28	Dec 15
Feb	Dec 26	Jan 15
Mar	Jan 30	Feb 15
Apr	Feb 27	Mar 15
May	Mar 27	Apr 15
June	Apr 24	May 15

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POWER ENGINEERING SOCIETY

MEETING NOTICE

LUNCHEON MEETING

WEDNESDAY, MAY 11, 1988

SPEAKER: T.J. (Tom) Parker
Project Manager
ENVIRODYNE ENGINEERS, INC.

TOPIC: CHICAGO-O'HARE PEOPLE MOVER PROJECT

ABSTRACT: The Chicago O'Hare People Mover Project is the single largest city public works contract to date. An overview of the development and design/build aspects of the work will be given. The presentation will describe the evolution of the project from 1983 forward and will consist of an explanation of alignment alternatives explored, development of the contract documents and proposal criteria, and a description of the currently contracted for alignment, including rolling stock and wayside equipment.

SPEAKER: Mr. Parker has been a member of Envirodyne Engineers staff for the past 5 years. Previously, he has been a Project Manager for a general contractor, and a Project Manager for a large international consulting engineering firm designing numerous railroad, transit and highway projects in the U.S. and mideast.

Mr. Parker is currently a Director of the American Railway Bridge and Building Association, a member of the American Railway Engineering Association, and a member of the National Institute for Certification of Engineering Technologies. He has been project manager for the people mover since 1983.

LOCATION: Carson Pirie Scott & Co. Reception: 11:30 A.M.
Highland Room - Corporate Level Lunch: 12:00 Noon
Monroe & Wabash (Downtown Chicago) Meeting: 12:45 P.M.

Lunch is \$11.00 per person. Advance reservations should be made by calling Judy Larsen or Carolyn Glandt at 255-3003 before May 9, 1988.

Power and Life

Consumer Electronics Society and Acoustic Speech and Signal Processing Joint Meeting Wednesday, May 24, 1988

MAGNETIC RECORDING

Our speaker for the evening, Dr. Marvin Camras, is an IEEE Fellow, and has been a member of the Consumer Electronics Society since its inception. Dr. Camras, who developed the first magnetic recorder, has contributed developments which are used in modern magnetic tape and wire recorders, including high frequency bias, magnetic tape, recording heads, stereophonic sound reproduction, and video tape recordings. He holds over 500 patents in his principal fields of endeavor.

Dr. Camras has authored over 40 publications, notably two books; Magnetic Tape Recording, and Magnetic Recording Handbook. Currently, he is a Senior Scientific Adviser to the Electronics Division of IITRI and Research Professor of Electrical and Computer Engineering at IIT.

DATE: May 24, 1988
TIME: Social 6:00 PM
Dinner 7:00 PM
Talk 8:00 PM
PLACE: Cyprus; exit I-294 at Ogden Ave. West
RESERVATIONS: IEEE Office 255-3003 before May 22, 1988

If you are unable to join us for dinner please feel free to attend the meeting only. There is no cost to attend the meeting only!

A REPORT FROM YOUR SECTION VICE CHAIRMAN:

Our Chairman has started an informal workshop session which precedes the monthly Section Executive Committee to assist the Officers of our newest chapters to "learn the ropes." We are equally eager to respond to queries by telephone, fax, and electronic mail, with the help of all of our Officers.

We also would like to remind our Section, Subsection, and Chapter Officers and Chairpeople that you should be planning to invite members to volunteer for assignments to "spread the load," such as

- planning, arranging, and conducting your meetings (and other events)
- finding interesting topics and speakers
- determining the availability of your Society's Distinguished Speakers
- proposing and implementing better methods for attracting attendees
- serving as a speaker or as a panelist
- finding other local professional organizations with common interests
- getting your non-member co-workers to join IEEE and your Chapter
- participating more actively to improve your personal professional knowledge

We need your support and ideas, particularly from our "young engineers!"

Joe Feitler (at 979-8023; electronic mail...lihn4!laidbak!joef)



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*Student member rates for JLT and JSSC are \$14 and \$6 respectively.

Membership Application—IEEE LEOS	
I am applying for the following, as indicated: ☐ I am an IEEE member. Please enroll me in IEEE LEOS IEEE member No. ☐ IEEE membership plus LEOS membership ☐ IEEE membership only	EDUCATION (highest level completed): Name of educational institution _____ Course _____ Degree received _____ Date _____
Full Signature _____ Date _____ First name (print) _____ Middle initial _____ Last name _____ Street address _____ City _____ State/Country _____ Postal Code _____	EMPLOYMENT Present Occupation _____ Title or Position _____ Firm Name _____ Firm Address _____ Street _____ City _____ State/Country _____ Postal Code _____
Applicants for IEEE membership please complete the following information: Date of birth _____ Mo./Day/Yr. ☐ Male ☐ Female Were you ever a member of IEEE? ☐ Yes ☐ No If yes, please furnish: Grade _____ Memb. No. _____	YEARS OF PROFESSIONAL PRACTICE: _____ Endorsement of one IEEE Member, Senior Member or Fellow who knows you professionally. Endorser's Name (print) _____ Member No. Endorser's Signature _____ Date _____
FEE SCHEDULE Sept. 1–Feb. 28 pay full year fees March 1–Aug. 31 pay half year fees All dues and fees are annual rates. Indicate here whether you are remitting either 100% or 50% of these rates, according to the fee schedule above. ☐ 100% ☐ 50% LEOS fee: \$15.00 ☐ _____ Students: \$8.00 ☐ _____ IEEE membership annual dues and (if applicable) Region assessment payments. U.S. (Region 1-6) \$67.00 ☐ _____ Canada (Region 7) \$62.00 ☐ _____ Europe, Africa & Mid. East (Region 8) \$63.00 ☐ _____ Latin America (Region 9) \$52.00 ☐ _____ Asia & Pacific (Region 10) \$54.00 ☐ _____ JLT—\$18.00 ☐ _____ JSSC—\$8.00 ☐ _____ U.S. Students \$17.00 ☐ _____ Non U.S. Students \$12.00 ☐ _____ JLT—\$14.00 ☐ _____ JSSC—\$6.00 ☐ _____ Payment Enclosed Remit in U.S. dollars drawn on a U.S. bank. Make check payable to IEEE. Please mail to: IEEE Service Center P.O. Box 1331, 445 Hoes Lane Piscataway, N.J. 08855-1331, U.S.A.	
TRACKING CODE EVENT CODE: P 3 6 0 9 8 8 8 BROCHURE CODE: 3 6 0 9 8 8 8	



IEEE Lasers and Electro-Optics Society



* * * CHICAGO CHAPTER * * *

KICKOFF MEETING: May 12, 1988

SPEAKER: Don Sipes, Amoco Laser Co.

TOPIC: The New Age of Microlasers

ABSTRACT

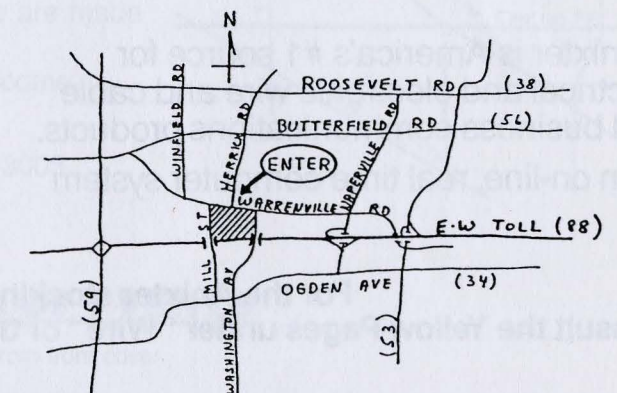
Microlasers, or diode pumped solid state lasers are revolutionizing the way lasers are regarded for use in many systems applications. The basic theory of diode pumped lasers and the multitude of different configurations possible will be covered as well as the status of initial mirolaser products and application areas.

Social/Business Meeting: 6:30 PM
Dinner: 7:10 PM
Technical Presentation: 8:00 PM

All interested are invited to the business/social meeting where we will discuss members' interest in possible activities in 1988. Complimentary wine and cheese will be provided.

Location: Amoco Research Center
Naperville, IL
Entrance: Warrenville & Herrick Rds.

 Amoco Research Center

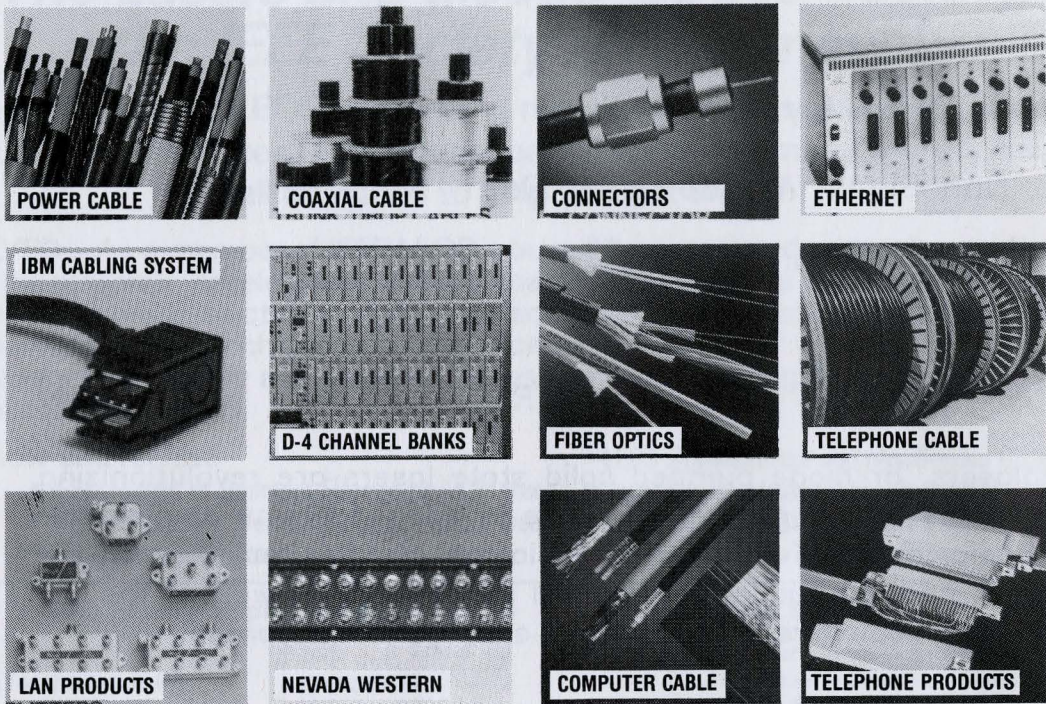


Dinner choices are Prime Rib or Vegetable Lasagna.

Cost is \$13.00 per person.

Advance dinner reservations should be made by calling Judy Larsen or Carolyn Glandt at 255-3003 before May 4, 1988.

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JOINT MEETING OF THE ELECTRON DEVICES SOCIETY AND THE NORTHWEST SUBSECTION

May 17, 1988

"High T_C Superconductors: The Past Year in Review"

by Dr. C.R. Kannewurf
Professor Electrical Engineering
and Computer Science
Northwestern University

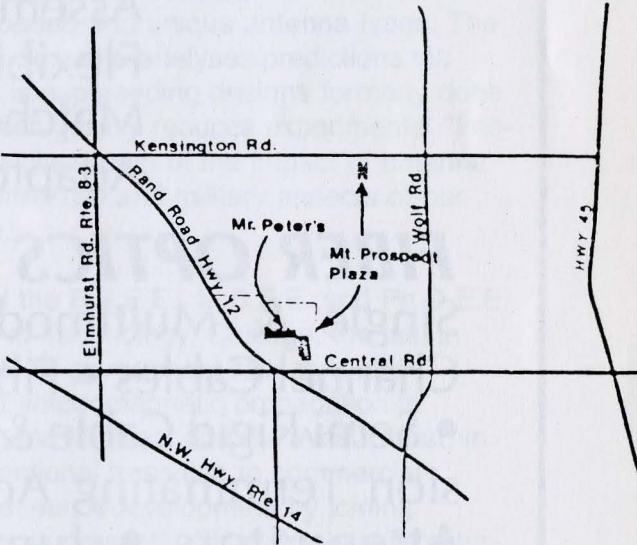
Dr. Kannewurf will review some of the interesting results that have come from a little over a year of the highly publicized and intensely pursued research effort into the development, properties, and possible applications for the new high T_C superconductors. Some attention will also be given to current trends and what can be expected from these new materials in the near future.

DATE: Tuesday, May 17, 1988

PLACE: Mr. Peter's Banquets
1018 E. Mt. Prospect Plaza
Rand and Central Roads
Mt. Prospect, IL

TIME: 6:00 Social Hour – Cash Bar
7:00 Dinner – \$12.00*
(*\$11.00 if reservations are made on or before May 13.)
8:00 Meeting – All Welcome

RESERVATIONS: Call Judy Larsen or Carolyn Glandt at 255-3003.



CALENDAR OF EVENTS

Continued from front cover

MAY 19	Case-A Computer Aided Design Tool for Software Design	Computer Society (joint with ACM)	Wilton Manor 2200 N. Main St. Wheaton, IL	Social: 6:00 PM Dinner: 6:30 PM Meeting: 7:30 PM
MAY 24	Magnetic Recording	Consumer Electronics/Acoustics Society	Cyprus Rest. Ogden Ave. @ I-294	Social: 6:00 PM Dinner: 7:00 PM Talk: 8:00 PM
MAY 25	Satellite Communications	Fox Valley Subsection	Wilton Manor Schmale Road Wheaton	Social: 6:00 PM Dinner: 7:00 PM Talk: 8:00 PM

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

IEEE

MAY 1988 MEETING NOTICE

A GLIMPSE OF ANTENNA TECHNOLOGY – PAST TO FUTURE

By: Dr. Charles M. Knop

DATE: Monday, May 9, 1988
PLACE: Louis' Restaurant, 351 E. Lake Street
Addison, Illinois
(First traffic light west of Route 83)
TIME: Social – 5:30 PM
Dinner – 6:30 PM
Meeting – 7:30 PM

ABSTRACT: A qualitative survey of antenna theory and practice from “early days” to the present with speculative comments on future trends will be presented. This survey will include wire, slot, helix, horn, reflector, lens, dielectric rod-loaded and unique antenna types. The fact that the growing ability of accurate analyses/predictions via numerical/computer methods is superseding designs formerly done by “antenna-art” methods which greatly reduces experimental “fine-tuning” will be emphasized. A discussion of the impact of antenna technology on the social, commercial and military aspects of our lives will conclude the lecture.

SPEAKER: Dr. Charles M. Knop received the B.S.E.E., M.S.E.E. and Ph.D.E.E. degrees from Illinois Institute of Technology, Chicago, the last in 1963. Initially, he carried out U.S. government research and development in antennas and electromagnetic propagation in industrial corporations both in the Midwest and the West Coast. In the late-60's he made the intentional transition to commercial-telecommunication-antenna research/development by joining Andrew Corporation, where he is presently Chief Scientist/Director-Antenna Research. He and his associates have developed state-of-the-art microwave-reflector antennas and associated corrugated horns. He has been a reviewer for various technical journals and contributed to the Antenna Engineering Handbook published recently. He is a Fellow of the IEEE.

The dinner is optional. A reservation is helpful even if you plan to attend the talk only. Reservations may be made by calling 255-3003 before noon on Friday, May 6, 1988. Non-members are welcome.

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 (255-3003) 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.

- B135 — MSEE seeks position in consumer/Automotive Electronics Chicago area.
- B136 — BSEET enthusiastic w/3 yrs in Aerospace test requirements Comm/Aerospace.
- B137 — BSEET Entry level position in communication and/or Data systems.
- B138 — BSEET entry level position in computer field or control system.
- B139 — PHD, seeking microwave Eng., measure, sintering, Heat., Plasma position.
- B140 — MSEE vic seeking position in computer hardware/software design.
- B141 — BSEE seeking entry level position. Software: FORTRAN, PASCAL & ASSEMBLY.
- B142 — MSEE RD, tech mgmt.; electron systems, CKTS device physics. PHD - PHYS.

- B143 — BSEE IIT seeking entry level position in electronics engineering.
- B144 — BSEE Bradley seeking entry level pos. in control sys. w/Microprocess.
- B145 — BSEE/MBA seeks technical/program management position in Chicago area.
- B146 — MSCS, BSEE entry level position in Communications and Software Company
- B147 — BSEET Entry level field service, for MICRO computer and Communication
- B148 — BSEET entry level position in communication or computer control system
- B149 — BSEE EIT — entry level position in software, C, Fortran, Basic, assembler
- B150 — Electronic design engineer — digital control — signal process — video display
- B151 — Component evaluation engineer — UL & CSA liaison engineer
- B152 — Purdue EE Grad — seeks challenging position developing advanced systems

If you are an IEEE member and unemployed, contact the IEEE Placement Service • 3413 N. Kennicott Avenue • Arlington Heights, IL 6004, at 255-3003 for an application form.

A MESSAGE FROM YOUR VICE-CHAIRMAN

[illegible]

Recent developments have led to a significantly lowered estimate of our anticipated income from the 1987 MIDCON Conference last September. Due to a smaller attendance and lower booth sales in comparison to prior years — as well as because of the prevailing formula for calculating the income for distribution to its sponsors, IEEE and ERA (Electronic Representatives Association) in Dallas and Chicago — IEEE's Chicago Section and Region 4 anticipate no income from this event. Normally, these funds represent the major supplementary income source for Region 4 and Section other than Hq's funding. Therefore we will be scrutinizing all expenses more carefully than before since any deficit will continue to shrink our reserves. While we will continue to encourage our Subsections and Chapters — including our revitalized and new Chapters — to serve their membership with outstanding programs, we will try to really "stretch our dollars". But we need the wholehearted cooperation of all of our Officers and members to do so.

Accordingly, we would like to encourage our larger and older Chapters (and Subsections) to share their experience and meetings with other Section entities — where practical — without detracting from their particular programming goals.

The existing policy of using SCANFAX as our major publicity medium for announcing all of our Chapter and Subsection meetings, tutorials, seminars, and conferences will be stressed to conserve our limited funds.

JOE FEITLER

FOX VALLEY SUBSECTION

- | | |
|---------------------------------|--|
| TOPIC: | Satellite Communications |
| DATE: | May 25, 1988 |
| SPEAKER: | George Bell, Scientific Atlanta |
| PLACE: | Wilton Manor, Schmale Rd., Wheaton |
| TIME/COST: | Social: 6:00 PM, Cash Bar
Dinner: 7:00 PM, \$10
Speaker: 8:00 PM, Free |
| RESERVATIONS: | Call 255-3003 to make reservations for Dinner and/or Meeting,
5/23/88. |
| TECHNICAL
QUESTIONS: | Call Larry Schultz at 627-1919 for any technical questions regarding
the topic. |

Our May meeting will be a presentation on the topic of Satellite Communications. Mr. George Bell of Scientific Atlanta, based in Atlanta, Georgia, will be our presenter. At press time, all the details for this presentation were not available, but will be given in the Fox Valley Subsection Monthly Mailer in May. Hope to see you at the meeting.

ANNOUNCEMENT

NATIONAL COMMUNICATIONS FORUM

**FOR MORE INFORMATION,
CONTACT:**

National Communications Forum

**505 N. Lake Shore Drive
Chicago, Illinois 60611
(312) 828-0008**

THE ILLINOIS ENGINEERING COUNCIL 50TH YEAR

The Illinois Engineering Council celebrates its 50th anniversary on October 8, 1988. The IEC was founded as a council of engineering societies in 1938 "to further the public welfare wherever technical and engineering knowledge and experience are involved, and to consider and act upon matters of concern to the engineering and allied technical professionals." The IEEE, then AIEE and IRE, were among the founding technical societies.

The basic purpose of the IEC is to bring together and to speak for all engineering societies of the state, including both registered and unregistered members, "bringing to bear the united effort of all organized segments of the engineering profession on any matters of general interest to the engineering profession and the public welfare, where such united action is necessary to achieve the desired results."

The IEC currently represents 22 societies both large and small, in original design, manufacturing, construction, and administration, and in many disciplines, with a total membership of over 25,000 individuals. The Chicago Section IEEE representatives to the IEC are: John Waters, Bert Orszula, Henry Dwyer, and Ed Barrett.

The first matter considered by the IEC was passage of a state registration act to regulate the practice of engineering in Illinois and secure reciprocity for Illinois engineers to practice in other states which then had such acts in place. After passage of the act in 1945, IEC's Legislative Committee continued active monitoring of its effects and updating its provisions. IEC is also the vehicle through which the engineering community qualifies nominees to the state Examining Committees for Professional Engineers, Structural Engineers, and Land Surveyors. Resumes for candidates are submitted by member societies and reviewed by all member societies before being recommended to the Director of Professional Regulation for appointment.

Currently the IEC supports an "Engineer Alert" legislator contact program through its governmental representative in Springfield. This serves to focus statewide influence on legislation relating to engineering practice, education and recognition. IEC also encourages and publicizes engineer and engineering society accomplishments in the advancement of public and corporate well-being in the state, such as "high technology" developments, Engineers Week activities, and other community involvement.

The 50th Annual Meeting of the Board of Direction of the IEC will be held on May 7, and a commemorative dinner is scheduled in Chicago on Friday, May 6. A dinner is also planned for Springfield about October 7.

Robert D. Harvey, P.E., President
312 246-2805

Phillip E. Borrowman, P.E., Vice-President
815 965-5600

Norbert R. Orszula, P.E., Secretary
312 629-3184

Nabi R. Fakroddin, P.E., S.E., Treasurer
312 584-1170

EMC SOCIETY — MAY MEETING

DATE: Tuesday, May 17, 1988

SUBJECT: Theory of EMC Signal Measurements with Applications to Automation

SPEAKER: Roger Southwick, IEEE Distinguished Lecturer

TIME: 7:15 Social
7:45 Talk

PLACE: AT&T Bell Labs
Naperville Road at Warrenville Road
Naperville, IL

RESERVATIONS: 979-3627 Before May 17

Mr. Southwick will discuss EMC receivers and spectrum analyzer characteristics and differences. He will point out the different types of receiver and detector characteristics and how they affect the measurement results.

IEEE RELIABILITY SOCIETY — CHICAGO CHAPTER

● MAY 19, 1988 RELIABILITY CHAPTER PLANNING MEETING

PURPOSE: Business Meeting/Election of Officers
PLACE: DeVry Institute of Technology
TIME: 6:30 PM

● JUNE 16, 1988 RELIABILITY CHAPTER ANNUAL BANQUET, DINNER

PURPOSE: Installation of New Officers
PLACE: Oak Brook Drury Lane
TIME: 7:30 PM
NOTE: Member and family invited, look out for further announcements.

● JULY 23, 1988 RELIABILITY CHAPTER ANNUAL PICNIC

PURPOSE: Fun and Recreation
PLACE: To Be Announced

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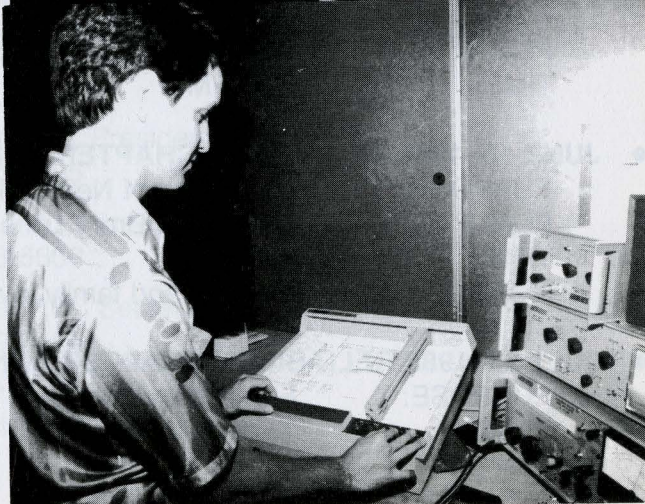
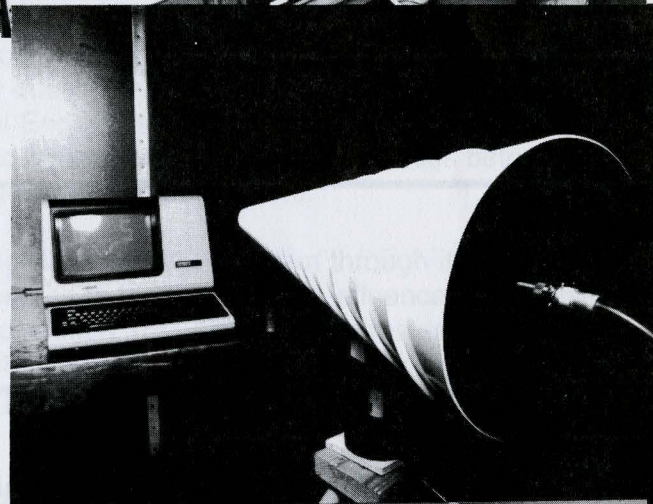
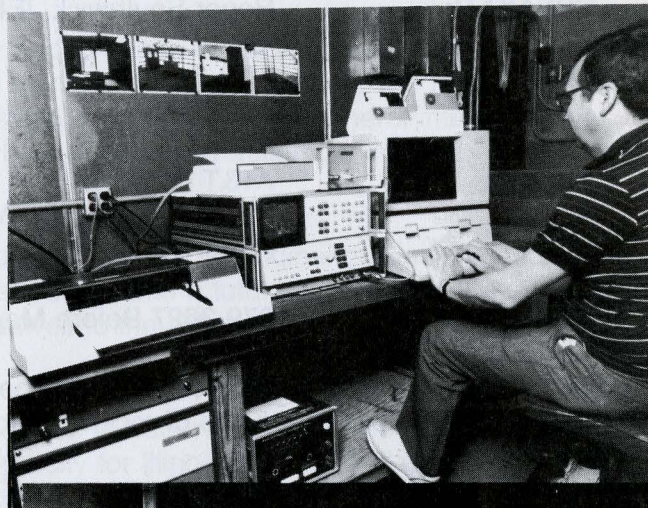
- Nationally known for their problem-solving abilities, our highly trained staff has extensive experience in solving radiated, conductive and susceptibility problems.
- DLS maintains a vast inventory of materials to quickly bring your product into compliance.
- Total conformity with the latest rules and regulations combined with comprehensive problem-solving experience means you won't be disappointed with a test that fails.

Convenient location

- DLS is conveniently located in Glenview, Illinois . . . only minutes away from O'Hare International Airport.

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