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TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

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

Copy Deadline for October Scanfax is August 29, 1988

SEPT. 19	Lighthouse Communications	AP/MTT Societies	Louis' Restaurant 351 E. Lake St. Addison, IL	Social: 5:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
SEPT. 20	Designing Logic to Minimize Emissions	Electro-Magnetic Compatibility Society	Bell Labs Naperville	Social 7:15 PM Meeting 7:30 PM
SEPT. 24	Future Plans for Chicago E-Mail	Communications and Computer Societies	Holiday Inn Crowne Plaza Lisle, IL	Seminar Starts 9 AM Seminar Ends 4 PM
SEPT. 27	Ethical Issues in Engineering	Joint Section, Subsection, & Chapters	Mr. Peter's Banquet 1018 E. Mt. Prospect Rd., Rand & Central Rds, Mt. Prospect	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
OCT. 5	Solid Dielectric Cable	Power Eng. Society	Carson Pirie Scott Corp. Level	Lunch 12:00 PM Reservations 649-2800

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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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The IEEE CHICAGO SECTION, its SUBSECTIONS and all of its SOCIETY CHAPTERS invite you, your friends, your family, and your co-workers to our joint 1988-89 "Kick-Off" Meeting

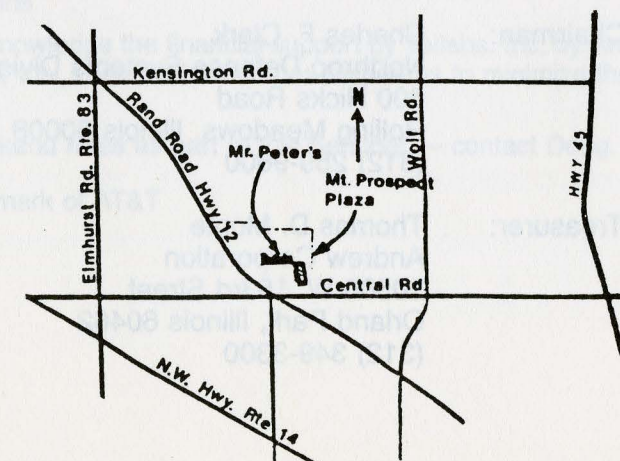
Date: Tuesday, September 27, 1988
Place: Mr. Peters Banquet Rooms
1018 East Mount Prospect Plaza,
Rand and Central Roads, Mt. Prospect, IL
Time: 6:00 pm - Social Hour (Cash Bar)
7:00 pm - Dinner
Cost is \$10.00 if reserved on or before Friday, Sept. 23rd;
\$11.00 otherwise
8:00 pm - Meeting (No charge for attending the meeting only)
Topic: Ethical Issues in Engineering
Keeping Good Apples from Going Bad;
What Engineering Societies Can Do about Ethics.
Speaker: Dr. Michael Davis, Senior Research Associate
IIT Center for the Study of Ethics in the Professions (IIT-CSEP)

The speaker taught at Case-Western Reserve University, Illinois State University, and the University of Illinois at Chicago before joining IIT/CSEP. In addition to publishing more than thirty articles on ethics, politics, and the law, he serves as co-editor of *Ethics and the Legal Profession*. IIT/CSEP was one of the first US research centers to focus on ethical issues in the professions, concentrating on science and engineering.

* * * * *

The Section also plans to honor its Past Section Chairman in celebration of its 25th anniversary at this meeting—we are the successor to the previously existing AIEE and IRE Chicago Sections. We hope that all of these good friends will attend.

Please call our new IEEE Chicago Section Message Center (at 649-2800) for dinner reservations no later than September 23, 1988. For other information on this meeting or for travel directions contact the Section's Program Chairman Len Cohen at 272-8800, X2692.



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ISSUE	COPY DUE	MAILED ON
Oct	Aug 29	Sept 15
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

THESE ARE FIRM DEADLINES!!!!

Fox Valley Subsection Calendar 1988-1989 Program

All meetings, unless otherwise noted, will be held at
Wilton Manor
2200 Main Street
Wheaton, Illinois

Dinner: 7:00 p.m. — Meeting: 8:00 p.m.

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The new officers of the AP/MTT Chicago Chapter, effective July 1, 1988 are:

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Vice Chairman: Charles F. Clark
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The Institute of Electrical and Electronics Engineers (IEEE) Chicago Section, the Chicago Chapters of the IEEE Communications and Computer Societies, and /usr/group/chicago [the local Chapter of /usr/group, a major UNIX (R) user organization]

You are invited to an all-day Seminar on *Saturday, September 24, 1988* at the *Executive Center of the Crowne Holiday Inn* located at Warrenville Road and Naper Boulevard, Naperville, IL (just north of the Naperville Road exit of the East-West Tollway I-88).

TIME: 9:00 am — 4:00 pm

TOPIC: *Future Plans for the Chicago Area Electronic Mail ("e-mail") Network*

There is an existing "e-mail" network which links users comprised of industrial, school, government agencies, and individual PC owners in the US and abroad to each other). This network relies heavily on internal communications networks operated by private companies and US Government Agencies. For example, AT&T's gateway system "ihnp4" has served the Chicago area for many years, with direct internal links to several other gateways elsewhere. Following a year's series of warning announcements, AT&T is withdrawing "ihnp4" as a local gateway as of September 1, 1988. This action will affect our current user community significantly.

The seminar will start with an explanation of the national and international network topology for "e-mail", as well as that of its Chicago area portions. The remainder of the presentations will describe several feasible alternates for maintaining and improving this local connectivity; due consideration is necessary for handling the rapidly increasing number of local individual and other subscribers (i.e., both the current and potential user).

There is a pervasive necessity for choosing sophisticated "adaptive" routing and switching techniques for revising the network layout. Ideally, the present users should be affected only minimally. But this elusive goal will demand numerous technological and organizational decisions — well-planned in advance — in order to attain an "optimal and feasible" solution very quickly.

Due to catering and seating limitations, please send your reservations (with remittance payable to "IEEE Seminar") no later than September 16, 1988 to
IEEE, P.O. Box 72, River Forest, IL 60305.

For information about the Seminar please call the IEEE Chicago Message Center at 649-2800 or Doug Price at 979-3664. *There will be no registration at the door due to the cited limitations.*

Attendance fees (which include lunch and one coffee break):

IEEE/ACM members and /usr/group/chicago members — \$ 35.00

non-members — \$ 45.00 (see NOTE below)

IEEE/ACM Student Chapter Members — \$ 15.00 (see NOTE below)

NOTE: \$ 10.00 membership fee credit if you join /usr/group/chicago

Major Seminar Topics:

- Overview of "e-mail" concepts and network layout
- The current state of connectivity
- The impact of the imminent changes — nationally and locally
- Feasible courses of actions
- Action Recommendations

The Seminar organizers acknowledge the financial support by Tellabs, Inc, by Analysts International Corporation, and by Lachman Associates, Inc. Their assistance has helped us to minimize the costs for conducting this Seminar.

Holiday Inn has special weekend rates as part of this Seminar — contact Doug.

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MONTHLY REPORT FROM YOUR SECTION CHAIRMAN

Welcome from your new team of Section Officers and Executive Committee members.

The Section's 1988/9 season starts with our September "Kick-Off" Meeting featuring a discussion about Ethics in the Engineering Profession, and honoring our Past Chairman for the past 25 years since becoming an IEEE Section formed from the predecessor AIEE and IRE Chicago Sections.

We are sponsoring a special Seminar jointly with our Communications and Computer Society Chapters on coping with the explosive growth of the Chicago Area's UNIX® "usenet" electronic communications network linking us to a world-wide user community (see separate announcement).

Our Recognition Dinner was a professional, social, and financial success due to the special efforts of our committee headed by Hank Korman; they have been working on the 1989 event.

We'll be concentrating on making maximum use of SCANFAX as our primary publicity medium while monitoring its financial aspects closely. Our new team of Section, Subsection, and Chapter Officers—and all of our committees—will emphasize the selective need for joint meetings to help our new chapters grow and to serve our members' professional interests even better than before.

Our Vice Chairman Bob Schrage will be finalizing on the drafts of our new job descriptions to help all of the Executive Committee people achieve an improved understanding of their respective roles. We hope to conduct another Officer's workshop in the near future with the aid of these job descriptions to supplement IEEE's "official" versions.

After extensive deliberations and negotiations headed by Ed Barrett and Bob Schrage we have set up a "Chicago Section Message Center"—with a new telephone number, 649-2800 and a new address (see masthead). This should reduce our office expenses substantially. Our Junior Past Chairman Ed Barrett has volunteered to handle the administrative responsibilities for SCANFAX advertising. The new Section Office will handle reservations and answer questions about meetings; callers will be referred to an Executive Committee member for responses to other inquiries. We will also increase the use of FAX and electronic mail facilities when practical.

We want to thank our outgoing Executive Committee members and other Officers for their efforts and wish them continued personal and professional success. We welcome those reelected or reappointed to positions within the Section and its entities.

Please help us to keep you informed by encouraging your Officers to attend our monthly Executive Committee meetings now being held at CCSI in Downers Grove (courtesy of George Thomas). All of you are cordially invited to come there to offer your opinions and advice.

Joe Feitler

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JOINT CHICAGO CHAPTER OF IEEE ANTENNAS & PROPAGATION SOCIETY AND MICROWAVE THEORY & TECHNIQUES SOCIETY SEPTEMBER 1988 MEETING NOTICE

LIGHTWAVE COMMUNICATIONS

By: Reinhard H. Knerr
IEEE Distinguished Microwave Lecturer 1988/89

DATE: Monday, September 19, 1988
PLACE: Louis' Restaurant
351 E. Lake Street
Addison, Illinois
(First traffic light west of Route 83)

TIME:
SOCIAL— 5:30 p.m.
DINNER— 6:30 p.m.
MEETING— 7:30 p.m.

ABSTRACT: Lightwave communications technology has now reached a fairly sophisticated level of maturity. Applications range from multi-mode short wave length LED systems, which can transmit at kilobits per second and are used primarily for short range applications, to long-haul single-mode laser systems, which can transmit at the rate of gigabits per second.

This talk will touch on the full range of lightwave communications applications. A short introduction to basic fiber technology will be given. Applications to optical data links, and interfaces for point to point data networks, will be discussed, as well as the extension of such technologies to lightwave local area networks (LAN's). Different network architectures for lightwave LAN's will be discussed, including the fiber distributed data interface (FDDI), and the manufacturing automatic protocol (MAP). Long haul digital systems will be mentioned, with special emphasis on the microwave aspects of gigabit systems, such as stripline and low noise GaAs preamplifier technology.

Coherent lightwave systems will be reviewed with emphasis on the equivalence between such systems and the older microwave technology. We will detail problems which have been addressed in microwave systems and which are now being encountered in coherent lightwave systems and being solved by analogy to the older microwave technology. These include techniques such as isolation, internal and external modulation schemes, low noise amplification, and phase lock techniques. Emphasis will be placed on heterodyne rather than homodyne systems.

SPEAKER: Reinhard H. Knerr is a native of Pirmasens, Germany. He received a Ph.D. and an MS in EE from Lehigh University, Bethlehem, PA and Dipl. Ing. degree from the Ecole Nationale Supérieure d'Electrotechnique, d'Electronique et d'Hydraulique in Toulouse, France and a BS degree from the Technical University of Aachen, Germany. He joined AT&T Bell Laboratories as a Member of the Technical Staff in 1968. He was involved in R&D on circulators, IMPATT power amplifiers, low noise and power GaAs FET amplifiers and satellite receivers. He has published extensively in the field and holds six patents. Knerr has supervised work in lightwave passive components, integrated optics, lightwave local area networks and lightwave data interfaces. He is a Fellow of the IEEE and was editor of the Transactions on MTT from 1980 to 1982. He served as president of the MTT Society in 1986.

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 September 16, 1988. Student members are encouraged to attend meetings. Dinner for student members are available for the nominal charge of \$1.00. Non-IEEE members are also welcome.

ELECTROMAGNETIC COMPATIBILITY SOCIETY

SPEAKER: Darryl Gerke

DATE: September 20, 1988

TOPIC: Designing Logic to Minimize EMI

SOCIAL: 7:15 P.M.

MEETING: 7:30 P.M.

LOCATION: AT&T Bell Laboratories

Naperville & Warrenville Roads

Naperville, Illinois

1 block north of the Naperville E-W tollway exit.

Reservations requested. Please call Bob Hofmann at 312-979-3627.

Mr. Gerke is a principal in the firm of Kimmel, Gerke & Associates in St. Paul, Minnesota. He is a registered professional engineer with twenty years experience and has written several papers on EMI control.

We are happy to have Graphix Products, Inc. of Wheaton as SCANFAX printer again this year. Graphix did an excellent job of printing all ten issues of SCANFAX last year, and was the lowest of the six bidders who responded to our request for bids this past June for this coming year of SCANFAX.

Bob —

I just wanted to let you know how much I enjoyed your article in SCANFAX this month. I agree that Feerst can be a jerk, but somehow we need to kick the chair out from under the IEEE and get them to wake up. Every year, I seriously question whether I'm getting my money's worth... the answer is pretty close to "no" lately.

Keep up the good work!

— Randy

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July 27, 1988

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The UIC College of Engineering is pleased to announce the Off-Campus Engineering Program Fall 1988 Video Course Offerings:

Fall Quarter (September 19 - November 23)

ME 301 Applied Stress Analysis I	EECS 316 Active Filters
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ME 411 Theory of Vibrations II	

SPECIAL FALL COURSE: EECS 378 COMPUTER GRAPHICS

Taught by Dr. Thomas DeFanti, a leader in computer graphics, this course is not video based. It will be taught personally by Dr. DeFanti at the College of DuPage Multi-University Center in Glen Ellyn, Illinois.

Degree and non-degree options are available.

For complete details contact: Off-Campus Engineering Programs at (312) 996-2311

A NEW CONCEPT IN THE WESTERN SUBURBS — SCITECH

Dr. Ernest Malamud, SCITECH's Organizing Executive Director and a scientist at Fermi Lab has alerted us to the proposed role of this new educational institution, with the more formal title of "The Science and Technology Interactive Center, Inc." and an Organizing Board of Directors.

SCITECH's "mission" has been stated as:

To provide a cultural resource focusing on science and technology for a broad general audience made up of the population of the Illinois Research and Development Corridors, as well as visitors to the area.

- To provide learning experiences through interactive exhibits
- To develop creative educational programs installing an appreciation for the phenomena of nature
- To explore the spectrum of science from particle physics to cosmology using the specialized resources of the area
- A special aim is to communicate the ideas unifying all branches of science

Currently SCITECH people are preparing a modest number of exhibits, as well as trying to secure funds for establishing its home in the western suburbs. If you are interested in supporting SCITECH as a volunteer and/or financially, please contact Ernie at work (840-4833) or at home (393-1198).

Letter to the Editor, September Scanfax

I agree with your contention that the IEEE board of directors may have used bad judgment in changing the election rules behind closed doors. In fact many of our colleagues hold the same view. However, I take issue with your solution of electing Irwin Feerst to fix IEEE's problems.

Irwin Feerst has many good issues to air for those of us in the Engineering profession. That does not make these issues appropriate for IEEE. Our professional organization is transnational in nature. It serves all our profession world-wide. It is generally recognized by technical professionals that we are best served by free exchange of information without regard to countries borders. Mr. Feerst proposes an American IEEE to solve what he perceives as our problems.

I believe that the issues raised by Mr. Feerst can be best addressed by an organization outside the IEEE. We would then all be free to join this group that looks after the well-being of the American EEs. In fact, Mr. Feerst has such an organization in his Committee of Concerned EEs. Many may have noticed that Mr. Feerst hasn't had the leadership ability to awaken most EEs to his organization or address the problems of our profession in that forum. Therefore, instead of offering leadership to the IEEE he has offered to dismantle the organization.

I have had to deal with IEEE on a personal level and as a Chapter Chairman, SubSection Chairman, and most recently as a past Section Chairman. Yes, I have had my problems with the organization. But, I also have had much more success than failure. I have found headquarters to be very cooperative and helpful. Cooperation on both sides goes a long way toward success.

In terms of an alternative candidate for IEEE office, I would offer Merrill Buckley, who has not been endorsed by the IEEE board. He has served the IEEE in many grass roots offices and has experienced the organization first hand.

Finally, your letter in the June Scanfax could have given the impression that your personal position is that of the Chicago Section Executive Committee. However, this is not the case. The Executive Committee has endorsed no candidate and would only urge the IEEE members in the Chicago Section consider their ballot in a serious manner.

Sincerely,
Ed Barrett
Past Chairman, Chicago Section

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SCANFAX HAS A NEW PHONE SERVICE & ADVERTISING DIRECTOR

Readers of SCANFAX should note that we have a new phone answering service, and a new office telephone number exclusively for IEEE functions, EXCLUDING advertising.

THE PHONE NUMBER FOR MEETING RESERVATIONS IS **312-649-2800.**

This number should not be used for questions concerning advertising, call Ed Barrett at 312-297-5540 during working hours or 312-653-9049 evenings for information on advertising.

Other questions about SCANFAX should be addressed to the Editor as shown on the masthead on Page. 2