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Official Publication of Chicago Section • Institute of Electrical & Electronics Engineers • NOVEMBER 1992



TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations please call IEEE Office at (708) 963-3828 before the stated deadline

The meeting details are stated in their relevant announcements inside

Copy Deadline for December SCANFAX is October 28, 1992

November 4 Wednesday	EMC Society	Antenna Calibration	AT&T Bell Laboratories 2000 N. Naperville Rd. Naperville, Il.	Social: 7:15PM Meeting: 7:30PM
November 10 Tuesday	Chicago Section	Executive Committee	Motorola Center 1295 East Algonquin Rd. Schaumburg, Il.	Meeting: 7:15 PM
November 11 Wednesday	Communications Society	High Performance Optoelectric Data Communications	Sharko's Restaurant's 2225 Ogden Ave. Lisle, IL.	Social: 6:00PM Dinner: 7:00PM Meeting: 8:00PM
November 12 Thursday	Electron Devices Society/ CHMT Society/ Northwest Subsection	IRIDIUM - Motorola Satellite Communications	Motorola Center 1295 East Algonquin Rd. Schaumburg, Il.	Registration Required Call (708) 963-3828
November 17 Tuesday	Antennas & Propagation/ Microwave Theory & Techniques Societies	Active Grids for Quasi-Optical Power Combining	El Torito Restaurant 1205 West Dundee Buffalo Grove, Il.	Social: 6:00PM Meeting: 6:30PM Meeting: 7:30PM
November 17 Tuesday	Fox Valley Subsection	Advances in Personal Communications Systems	Jerry Sharko's 2225 Ogden Ave.. Lisle, Il.	Social: 6:00PM Dinner: 7:00PM Meeting: 8:00PM
November 18 Wednesday	Power Engineering Society	One Hundren Years of Light: The History of Commonwealth Edison	Chicago Bar Association 321 S. Plymouth Ct. Chicago, Il.	Social: 11:30AM Lunch: 12:00noon Meeting: 12:30PM
November 24 Tuesday	Computer Society	IBM PC Shareware For MSDOS	Motorola Center - Bldg 1301 1295 E. Algonquin Rd. Schaumburg, IL.	Dinner: 6:00PM Meeting: 7:00PM RESERVATIONS REQUIRED
December 7 & 8 Monday & Tuesday	Chicago Section and The Lendman Group	IEEE Technical Career Fair	Radisson Suite Hotel 5500 North River Road Rosemont, Il.	Hours: 3:00-8:00PM daily Call for details (804)473-2450

HOSTING CHICAGO SECTION EXECUTIVE COMMITTEE MEETINGS

Our Section would like to offer an opportunity to suppliers, manufacturers, vendors, and their representatives to host (or sponsor) some snacks or desserts at the monthly Chicago Section Executive Committee meetings. In return, we will provide the sponsors with an opportunity to say hello, take three minutes to describe their activity, perhaps leave us some promotional literature or data to distribute to the attendees, as well as contribute \$30 to our snack fund. Don't bring any goodies since the Galvin Center Food Works has ample skills to serve our meetings.

Please leave a helpful message on 708.576.8222 or 708.885.4189 to "start the ball rolling".

Jack Sherman, 1992/3 Secretary of the Chicago Section

Thinking of advancing your career with a graduate degree?

If so, Illinois Institute of Technology's Electrical and Computer Engineering Department offers more than 50 evening courses each semester at locations all over the Chicago area.

IIT's flexible, part-time graduate programs help you excel with MSEE, Ph.D., and credit-earning certificate programs in Electrical Engineering, including specializations in computer engineering, communications and signal processing, networks and electromagnetics, and power and control. And IIT now offers a new MS degree in Computer Systems Engineering.

Courses are offered at IIT's Main Campus on Chicago's near South Side, the Rice Campus in west suburban Wheaton, and via live television at dozens of sites around the Chicago metropolitan area.

Two new courses will be offered in spring of 1993: EE 597 "Mobile Radio" and EE 433 "Real-time Data Acquisition and Processing."

For further information and an application packet, call 312-567-3400.

**Electrical and Computer Engineering
Illinois Institute of Technology**

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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 SCANFAX mailing label if possible or phone direct to: 1-800-678-4333. We cannot forward this information for you, so please do not send it to the local office.

SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
DEC	OCT 28	NOV 15
JAN 93	NOV 25	DEC 15
FEB	DEC 21	JAN 15
MAR	JAN 28	FEB 15
APR	FEB 25	MAR 15
MAY	MAR 25	APR 15
JUNE	APR 28	MAY 15

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Piscataway, N.J. 08855-1331, USA • (908) 562-5524

POWER ENGINEERING SOCIETY



SPEAKER: John F. Hogan - Director, Communications Services
Commonwealth Edison Co., Chicago

TOPIC: One Hundred Years of Light: The History of
Commonwealth Edison

ABSTRACT: Commonwealth Edison, Chicago and northern Illinois have grown and come of age together. Since its beginning in 1887, Edison has been a pioneer in technology, marketing, advertising, public relations, nuclear energy, rural electrification, and many other fields. For most of its history, Edison has struggled to provide an adequate supply of energy to meet ever-rising customer demand. The company has had to overcome fires, floods, explosions, as well as political and regulatory setbacks. Today, Edison stands as the largest nuclear utility in the country but faces an uncertain future in an increasingly hostile regulatory environment.

BACKGROUND: Mr. Hogan is responsible for Edison's media relations and communications with company employees. He disseminates the Edison position on matters of interest to the press and oversees production and distribution of four employee publications and an employee video news program. Before joining Edison, he spent 16 years with WGN Radio and Television in Chicago, the last 12 years as a news reporter. He is the author of Edison's 100-year history, A Spirit Capable, published in 1986.

PLACE: Chicago Bar Association, 321 S. Plymouth Ct.
(near Jackson and Dearborn)
Purchase lunch tickets in lobby (\$7.50)

DATE/TIME: November 18, 1992 / 11:30 Social, 12:00 Lunch,
12:30 Presentation

RESERVATIONS MUST BE MADE BY MONDAY 11/16/92, 12:00 PM. RESERVATIONS MAY BE MADE BY CALLING THE IEEE CHICAGO MESSAGE CENTER AT (708) 963-3828. PLEASE LEAVE NAME(S) AND COMPANY NAME(S) FOR THOSE WISHING TO ATTEND.

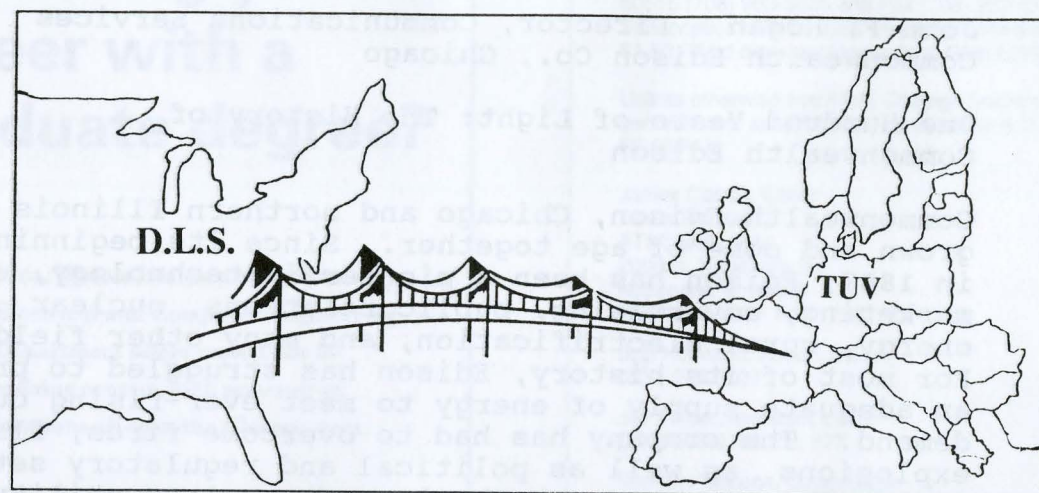
THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

IEEE videoconference videotapes:

Due to the sparse attendance at the live downlinks, we have requested and received permission to accommodate alternate lifestyles. You could act to facilitate the acquisition of the technologies by calling 708 576 8222 and placing your comments on the marginally acceptable answering media. You could get lucky and get human intervention.

How do we get you and the technologies to meet each other?
Do you want a list of the available tapes?

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- D.L.S. is a recognized laboratory for the German TUV Rheinland witness testing.
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CHICAGO CHAPTER - IEEE EMC SOCIETY

DATE: WEDNESDAY - NOVEMBER 4, 1992
Refreshments 7:15 P.M.
Meeting 7:30 P.M.

SPEAKER: ED BRONAUGH
ELECTRO-MECHANICS CO.

LOCATION: AT&T BELL LABORATORIES
2000 N. NAPERVILLE ROAD
NAPERVILLE, ILLINOIS

TOPIC: ANTENNA CALIBRATION
Ed will discuss various antenna calibration methods described in ANSI C63.5. He will review some of the advantages, disadvantages and pitfalls of each.

FOR RESERVATIONS & DIRECTIONS: CALL IEEE OFFICE 708-963-3828

A "forward-looking" idea emerged from the IEEE Region 4 ExCom meeting on October 3 & 4, 1992: Are any of our members interested in *networking* with someone sharing your IEEE Technical Interest Profile ("TIP")? That's one of the 4-digit numbers you placed on your membership renewal; but 30% of our members leave these TIP entries entirely blank! Would you like to have a fellow member contact with a relevant question of technical interest (not a job search) in the area of this TIP? Would you consider using such a service to evaluate materials or suppliers?

Well, our Northwest Subsection will evaluate this service. Just leave your name on the voice-mail at 708.576.8222 between 7pm and 7 am, or anytime at 708.885.4189. Please describe your interests and concerns, and how to reach you. Should we think about starting a newsletter??

Jack Sherman, Chairman of the Northwest Subsection

JOINT CHAPTER - ANTENNAS AND PROPAGATION and MICROWAVE THEORY AND TECHNIQUES SOCIETIES

Topic: Active Grids for Quasi-Optical Power Combining

Date: Tuesday November 17, 1992

Speaker: Prof. David Rutledge - AP-S Distinguished Lecturer
California Institute of Technology

ABSTRACT: Periodic structures loaded with active devices are new quasi-optical components. These active grids offer the potential for high-power operation, and are suitable for fabrication as monolithic integrated circuits. In these grids, the power is proportional to the area, while the circuit impedances are determined by the dimensions of the unit cell. This allows great design flexibility. One can achieve high power and high efficiency simultaneously, or large dynamic range and low noise at the same time.

A variety of grids have been demonstrated, including detectors, phase shifters, multipliers, oscillators, and recently, amplifiers and switches. Recent results for three grids will be discussed. These include a monolithic 6 X 6 grid oscillator with heterojunction bipolar transistors, a hybrid 4 X 4 10-GHz MESFET grid oscillator, and a 10 X 10 grid amplifier.

PLACE:	El Torito Restaurant	TIME:	Social	6:00 PM
	1205 W. Dundee		Dinner	6:30 PM
	Buffalo Grove, IL		Meeting	7:30 PM

From Rt. 53, exit eastbound at Dundee. Turn right onto Dundee. Travel east 1 mile to Arlington Heights Road. Restaurant is on the southwest corner at the intersection of Dundee & Arlington Heights Road in Plaza Verde.

Call the IEEE message center 708-963-3828 by noon on Friday November 13, 1992 to make your reservation. The dinner costs \$8.65 and is optional. A selection of 9 entrees will be available. Reservations are requested even if you attend the meeting only. Non-IEEE members are welcome.

To: All Chicago Section Members

From: Mary S. Hart
Student Activities

The Engineers for Education coalition has a goal to recruit 100,000 engineers for volunteer programs aimed at improving the quality of math and science education in the United States. You can register by calling 800 489-0348 to receive a kit of outstanding information and materials. All of these materials can be used for programs in the metro Chicago Area.

If you wish to volunteer your time or services to an Engineers for Education activity, please contact me. We have several programs which take only a few hours of your time and can be very rewarding. Call me at 312 294-7784 to receive a list of volunteer opportunities.

The Illinois Institute of Technology Student Branch is looking for a donation (or discount) of electronic circuit "bread boards" which can be used for laboratory circuit courses. Contact Steve Espinosa at 312 808-1953.

SUMMARY OF SECTION OPINION SURVEY (based on about 50 responses)

Timeliness and contents of SCANFAX:
most members receive SCANFAX on time and like its contents;
found the limited-attendance tours filled prior to getting SCANFAX
(e.g., Comm Ed, Deep Tunnel, Air Traffic Control);

Special Interests:
cover the interests and use the talents of retired engineers;
show videotapes on topics of current interest;
offer courses to keep up with profession;
have a course on understanding and implementing Total Quality Management (TQM);

New meeting locations desired:
Argonne National Lab;
the New Lenox/Matteson area;
vary the meeting locations;
hold more meetings in the western suburbs;

Experiences/Impressions at the IEEE Job Fairs:
few members attend them;
disappointing job opportunities;
very helpful;
not that effective;
liked the event in the role of interviewer;
the instructional session was great, but employers were there "for show only";
useful only for computer programmers, but no one else;
a "waste of time" — rarely any hardware hiring;

Suggestions:
hold more meetings on Mondays or Thursdays;
create more localized subsections;
have more joint meetings with ACM;
offer more 1-2 day short courses on general engineering topics;
while unemployed, SCANFAX placement service was omitted for several months due to lack of space;
continue the talks on the application of new theories;
wants speakers on automated power distribution (overhead & underground);
provide better coverage of sensors, applications, low-cost design solutions, reduce time-to-market;
interested in the emerging software and hardware technologies to help in my sales efforts;
continue your coverage of HR 2390 (the Pension Coverage & Portability Improvement Act)
would like more tours;
wants a local computer bulletin board for software, exchange of ideas, job searches;

Thanks for your responses and ideas — Please keep in touch with your Section ExCom
Volunteer your talents!
Joe Feitler, Associate Editor

NOTICE: DeVry OPEN HOUSE

Due to a scheduling conflict, the DeVry open house reported for this November has been rescheduled to: Tues March 2, 1993.

Life Members:

If you are one of the sixty that had responded to the invitation to visit Motorola for a Museum tour and technical meeting last June 2nd but missed the opportunity, a new opportunity is being mailed to you. Tues Nov 10 is being planned.

If you failed to respond and wish to be considered, please call 708 576 8222 and leave your name and phone number.

Students and staff at schools without student chapters:

A number of you may desire to become represented, obtain speakers, and have technical interchanges. If you don't know how to start going, please call the IEEE office at 708 963 3828 and leave a message for the student services chair or the section secretary.

You do not need to be a recognized engineering school, college, university, etc. Three examples: University of Chicago, Lake Forest, College of DuPage.

NATIONAL ENGINEERS WEEK AT IIT RICE:

One of the several initiatives anticipated for the Feb 1993 National Engineers week is the planning of activities for each of IEEE's 37 technical societies, especially those without active chapters in the Chicago area. Ruth Sweetser, IIT Rice, will appreciate your contact. 708 682 6020

Supercom 92 transactions:

The Northwest Subsection acquired a few copies of the transactions to peddle at pre-conference prices. Please call 708 576 8222 to inquire. Leaving your name and phone number will reduce the transaction cycle time.

E-mail:

Piscataway is expanding their e-mail activity. Joe Feitler and Howard Wolfman have ieee.org addresses, and Jack Sherman is about to.

So much for IEEE international and Regional activity. Should Chicago IEEE e-mail activity catch hold? To what extent? Who will do the bulletin boarding? Why not our student chapters, why not our societies, why not somebody's conjugal sysop? Do you look at Scanfax front page only? How about activity calendars, weekly, even those too late for Scanfax?

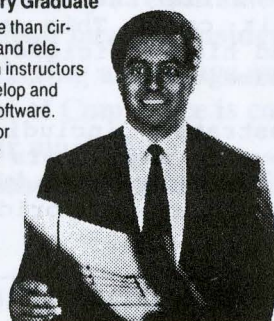
Please leave your ideas or wants at 708 576 8222, 7 pm to 7 am.
Or e-mail to: jack%lecygne@clout.chi.il.us Motorola :X400 is CJS005.

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"Training others has helped me appreciate the quality of instructors at DeVry. They taught me what it takes to succeed."

Len Martinez, 3M Corporation, 1977 DeVry Graduate

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Technical Career Fair

MONDAY, DECEMBER 7, 1992

TUESDAY, DECEMBER 8, 1992

3:00 PM - 8:00 PM EACH DAY

Radisson Suite Hotel - O'Hare
5500 North River Road, Rosemont, IL

- No cost, no obligation
- Confidentiality assured
- No pre-registration
- Interviews on the spot in various technical fields
- Degree and two or more years' experience required

For a list of participating companies, see the employment section of
THE CHICAGO TRIBUNE on Sunday, December 6, 1992

Sponsored by the Chicago Section of The Institute of Electrical and Electronics Engineers.
Produced by The Lendman Group, the nation's oldest and largest job fair producer, and Payne Lendman, the outplacement and human relations consulting division of The Lendman Group.

ELECTRON DEVICES SOCIETY

CHMT SOCIETY

NORTHWEST SUBSECTION

JOINT MEETING, MOTOROLA MUSEUM TOUR AND PLANT VISIT

IRIDIUM - MOTOROLA SATELLITE

COMMUNICATIONS

THURSDAY NOVEMBER 12 1992

Register at 708 963 3828. Register by November 9th.
Attendance limited to 100. Your attendance will be confirmed.



International Conference
on Consumer Electronics

CALL FOR PAPERS

The ICCE is the consumer electronics industry's premier technical conference. Held June 8-10, 1993, subsequent to the Summer Consumer Electronics Show, the ICCE is the forum for the exchange of information and results of recent work on systems, circuits, technology, processes and applications in all areas of consumer electronics including:

- VIDEO
 - Advanced Television
 - Ghost Cancellation
 - Image Compression
 - Transmission & Delivery
 - Recording Technology
 - Receivers/Displays
- HOME INFORMATION SYSTEMS
- PERSONAL COMMUNICATIONS
- HOME BUS
- DESIGN AUTOMATION
- AUDIO
 - Digital Audio
 - Audio for TV
 - Recording & Broadcasting
- EMERGING TECHNOLOGIES
 - Fuzzy Logic
 - Automotive, Marine & Aviation
- ELECTRONIC PHOTOGRAPHY
- HUMAN FACTORS
- ELECTRONIC IMAGING
- MANUFACTURING TECHNOLOGY

CONFERENCE INFORMATION

DATES: June 8-10, 1993

HIGHLIGHTS:

LOCATION: The Westin Hotel O'Hare, Rosemont, Illinois
Convenient Rapid Transit to Downtown
Chicago and EIA Consumer Electronics
Show (June 3-6, 1993)

- 24 Technical Sessions
- Digest of Technical Papers
- Evening Panel Discussions
- Educational Sessions (June 7)
- Selected Poster Sessions

INSTRUCTIONS AND DEADLINE: January 15, 1993

Authors must mail **ten (10) copies** of a 500-word summary and 35-word abstract for paper and poster session selection purposes to be received by January 15, 1993. Authors' names, affiliation, complete mailing address, telephone and fax numbers must appear on the first page of the summary.

Mail U.S. Papers to:

Diane D. Williams
Conference Coordinator
67 Raspberry Patch Drive
Rochester, NY 14612-2868
716-392-3862/Fax 716-392-4397

Mail European Papers to:

Joseph Beriere
Philips Components-Consumer ICs
Building BAE-2
Eindhoven, The Netherlands
31-40-722497/Fax 31-40-722861

Or:

Gerhard Maier
Thomson Consumer Electronics
P.O. Box 1307
W-7730 VS Villingen, Germany
49-7721-852332/Fax 49-7721-852231

Mail Far East Papers to:

Hiro Kawamoto
Sharp Corporation
1-9-2 Nakase, Mihama-ku
Chiba, 261 Japan
043-297-2258/Fax 043-299-8738

- Authors of accepted papers will be notified by February 15, 1993 and will be supplied with an Author Kit including special mats and instructions for preparing camera-ready copy of a summary, not to exceed two pages including figures, for the Conference *Digest of Technical Papers*. This material must be received by March 19, 1993.
- Full-length versions of each paper are desired for publication in the *Transactions on Consumer Electronics*. Camera-ready papers received at the time of the conference will receive priority attention.

Further information may be obtained from:

Technical Program Chairman

Thomas C. Nutting
Eastman Kodak Company
343 State Street
Rochester, NY 14650-1006
716-781-5367/Fax 716-724-2188

Conference Chairman

Michael C. Moorman
PA Consulting Group
279 Princeton Road
Hightstown, NJ 08520
609-426-4700/Fax 609-426-4046

Technical Exhibits

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Texas Instruments, Inc.
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Houston, TX 77251-1443
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Harwood Heights, IL 60656
708-867-0770



Sponsored by the Consumer Electronics Society of the IEEE

THE CHICAGO CHAPTER OF THE IEEE COMPUTER SOCIETY

TOPIC: IBM PC Shareware for MSDOS
DATE: Tuesday November 24th, 1992
SPEAKER: Gary Elfring Elfring Soft Fonts, P.O. BOX 61, Wasco, IL
PLACE: Motorola Campus Use only "Entrance 13" for Building 1301 (see map),
Off Algonquin Road (IL Rt 62), Schaumburg, IL (West of Meacham Rd)
TIME/COST: Dinner: 6:00 PM in Cafeteria (about \$ 4) — **RESERVATIONS REQUIRED!**
Presentation: 7:00 PM — **FREE — RESERVATIONS REQUIRED!**
RESERVATIONS: Call (708) 963-3828 for Dinner or Meeting, no later than November 20th, 1992
in order to conform to Motorola's Security Guidelines

OVERVIEW:

High-quality shareware exists for the IBM PC and its clones. Numerous shareware programs are a good as — or even better than — their commercial counterparts. Even better, you can test shareware software before buying, just like "test driving" a car before buying it. This talk will highlight the world of shareware: the available types, several outstanding examples, various sources for them, and protection against viruses.

NOTE:

After the talk, attendees will be able to duplicate a series of programs onto **pre-formatted 5 1/4", DS-DD diskettes**. Also, if possible, please bring your PC to help speed things along, especially if it has both 5 1/4" and 3 1/2" floppy drives.

ABSTRACT:

Mr. Elfring will describe sources for shareware such as user groups and Bulletin Board Systems (BBS). Next, he'll describe what's available in shareware, including Desk Top Publishing, fonts, system utilities, communications, database systems, spread sheets, finance, statistics, and words processors. The talk will conclude with a question and answer period, followed by the diskette copying session.

ABOUT OUR SPEAKER:

Gary Elfring is the President of Elfring Soft Fonts, Wasco, IL, a vendor of a wide variety of "soft" fonts and control utilities for LaserJet, DeskJet, Intellifont, PostScript, and TrueType printers. He is the author of two books, "Microcomputer Assembly Language Programming" (Van Nostrand-Reinhold) and "The Soft Font Manual". He has also published many magazine articles which have appeared in *Byte*, *Computer Language*, *PC Tech Journal*, *Publish*, and *Programmer's Journal*.

QUESTIONS:

call Joe Feitler at (708) 505-9100 x277 for directions or about bringing a PC to this event.

Do you want:

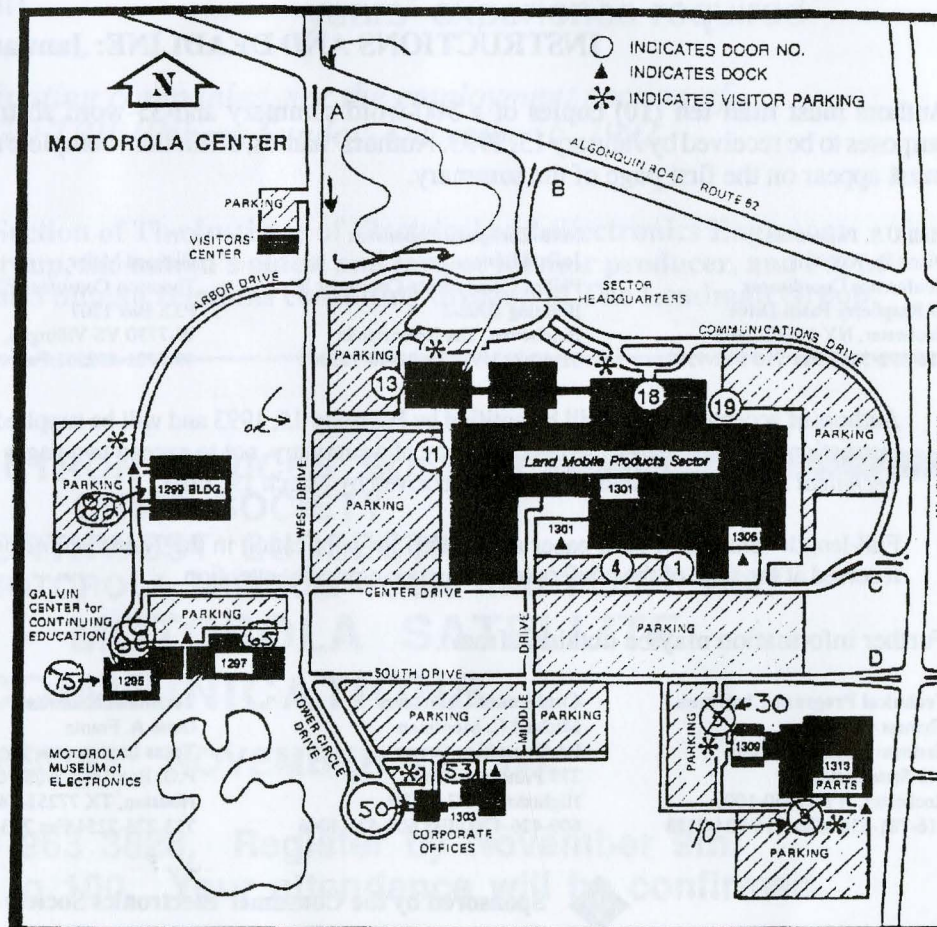
- IEEE membership application
- Society info & application
- Senior Member upgrade pack
- Student member application
- up-to-date list of officers
- job & job skills contact person
- copy of meeting schedule
- to submit Scanfax items
- to get copy of current Scanfax
- volunteer for student activities
- maps to meeting locations

as well as:

Register for a meeting-

IEEE CHICAGO OFFICE
phone 708 963 3828
fax 708 963 2122

2460 Wisconsin Avenue
Downers Grove IL 60515



1992 CHICAGO SECTION SALARY SURVEY

AGE	SALARY 1992	SALARY 1991	SALARY 1990	EXPER- IENCE	YEARS W/ COMPANY	OVERTIME HRS/YEAR	VACATION DAYS/YEAR	SURVEY RESPONSES
20-24	40,500	37,250	31,000	2.0	1.3	500	0.0	3
25-29	40,800	36,275	34,500	3.2	3.2	167	13.0	5
30-34	54,815	50,062	46,970	7.9	3.9	267	15.2	13
35-39	84,500	88,200	75,800	14.8	3.6	380	13.2	5
40-44	73,870	71,200	69,340	16.6	9.7	202	18.7	7
45-49	61,700	62,000	57,220	21.6	7.6	40	14.0	5
50-54	73,880	66,570	65,770	24.3	6.8	125	13.8	6
55-59	68,200	65,910	64,060	33.3	16.1	196	18.1	7
60-64	#	#	#					
65-69	#	#	#					

DEGREE

<Bachelor	67,000		30.0	1.0	300	15.0	1
Bachelor	56,560		9.5	4.9	229	14.5	23
Masters	67,880		18.8	9.6	202	15.9	14
Doctorate	67,700		13.8	6.3	175	16.7	6
PE	66,580		27.6	8.8	149	15.0	11

— insufficient data

Prepared by H. R. Hofmann (09/92)

- There is a movement afoot to provide a welcome to IEEE Region 4 at their executive committee meeting, the end of January. One of the initiatives is to have a series of technical presentations combined with a table-top display of hardware, software, and component parts. A call for papers is on the way to a random selection of mentalists who are students, members of technical societies, members who don't belong to societies, life members, technology enthusiasts and nature environmentalists.

We can't afford to mail a copy of the call to the entire region, so please, if you want a copy, or wish to participate in a way comfortable to you and your environment, please ask the IEEE office for a copy to be mailed or faxed.

-- Contact: Jack Sherman, 708 576 8222, e-mail to j.sherman@ieee.org

HOTLINE STUFF, TIF NETWORKING? (Technical Interest Profile)

A forward activity emerged from the Region 4 ExCom meeting October 3 - 4.

Do you have an interest in networking with someone with your Technical Interest Profile (TIP)? TIP is the sequence of 4 digit identification numbers you put on your membership renewal. Thirty percent leave theirs blank!

Would you object to someone with a question in the area of your profile contacting you? Note that these are not technical interests not job interests.

Would you consider using such a service to evaluate materials or suppliers?

Well, the Northwest Subsection will evaluate the service. Just leave your name on the voice mail at 708 576 8222, after 7 pm and before 7am, or during the day at 708 885 4189. You could call the IEEE office and leave a "reservation" for the TIF Program. Should we start a newsletter for these interests??

ADVANCES IN PERSONAL COMMUNICATIONS SYSTEMS

presented by your
Fox Valley Subsection

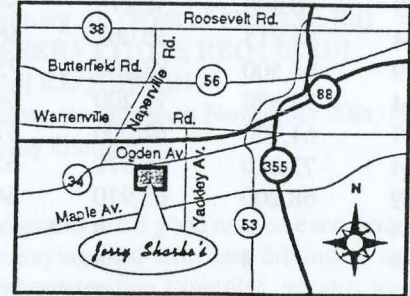
Date: Tuesday, November 17, 1992

Time/Cost: Social 6:00 PM / Cash Bar
Dinner 7:00 PM / \$13.00*
Meeting 8:00 PM

Place: Jerry Sharko's
2225 Ogden Ave.
Lisle, IL

Reservations: Call (708) 963-3828
by Friday November 13, 1992

Attire: Casual



* \$11.00 with student ID

You probably thought Cellular had an impact on how people in motion communicate. The new wave of Personal Communications being designed now promises a paradigm shift in how we communicate and live. Our speaker for the evening, Mr. Philip Petersen, will outline the changes cellular has made as it traveled around the world and how global events will impact the wave of Personal Communications to hit the United States in the mid 90's.

Mr. Philip C. Petersen is Manager of Market Research - Strategic Marketing for Motorola's Cellular Infrastructure Group in Arlington Heights. Mr. Petersen has made Cellular presentations at national communication forums like the NCF and SUPERCOM as well as being the author of wireless articles appearing in *Telephony* and *Telephone Engineer & Management*.

Meeting of the IEEE Communications Society (Chicago Chapter)

DATE: Wednesday, November 11, 1992

VIDEO PRESENTATION: High Performance Optoelectronic Data Communications

PLACE: Sharko's Restaurant, 2225 Ogden Avenue, Lisle, IL

TIME/COST: Social: 6:00 PM - Cash Bar

Dinner: 7:00 PM - \$13.00

Presentation: 8:00 PM - **FREE**

RESERVATIONS: Call (708) 963-3828 to make dinner reservations by Monday, November 9, 1992

FURTHER INQUIRIES: For further questions, contact Rushdi Muammar at (708) 713-1603 or Janusz Hyziak at (708) 576-8426.

ABOUT THE TOPIC: Optoelectronic data communications enables extremely high communication speeds between computing nodes. The ever increasing performance of computers necessitates high speed data communications to best take advantage of distributed and cooperative computing environments. It is expected that optoelectronic data communications will experience high growth during this decade, especially since the US Government recently approved funding for work on high performance computing and communications (HPCC). National Research and Education Network (NREN) is a part of this funding.

This video tape is a recording of one of the IEEE Videoconferences in which the lead presenter is Robert E. Kahn, President and Founder of Corporation for National Research Initiatives. It includes a brief overview of HPCC and a closer analysis of optoelectronic communications.