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Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • SEPTEMBER 1991

TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations please call IEEE Office at (708) 963-3828 before the stated deadline
Copy Deadline for October SCANFAX is August 26, 1991

Sept 10 Tuesday	Chicago Section	Executive Committee	Contemporary Controls 2500 Wisconsin Downers Grove, IL	Meeting: 7:15 PM
September 10 Tuesday	Chicago Section and The Lendman Group	IEEE Employment Job Fair	Embassy Suites Hotel 707 E. Butterfield Road Lombard, IL	Call for Information (800)562-2820
September 11 Wednesday	Chicago Section and The Lendman Group	IEEE Employment Job Fair	Embassy Suite Hotel 707 E. Butterfield Road Lombard, IL	Call for Information (800)562-2820
September 18 Wednesday	EMC Society	EMC Requirements for Euporean Marketplace	AT&T Bell Labs 2000 N. Naperville Rd. Naperville, IL	Social: 7:15 PM Meeting: 7:30 PM
September 19 Thursday	Chicago Section	Kickoff Dinner Meeting	Sharko's 1 West Roosevelt Road Villa Park, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM

APB — WANTED: All long-term "IEEE members" who should be "Senior Members"

APB (All-Points Bulletin) – This is a REMINDER from your Chicago Section to all of our professionally highly proficient IEEE *members* and *Associate Members* (and even some *Life Members* and *Life Associate Members*) that we are eager to help you become a "*Senior Member*", if eligible. Your annual dues amount will not change due to this upgrade.

Jack Sherman, our Membership Services Chairman, has analyzed our local member database and extracted most of the candidates' names eligible for this upgrade. Since we are eager to collect Hq's bounty for each such upgrade, we initially had planned to solicit all likely candidates by phone. But recently we heard of a far less labor-intensive method: If three Senior Members are sufficiently familiar with a candidate's professional background, they can propose such an upgrade to the *Senior Member* grade without officially notifying this person.

So if you feel yourself eligible for this long overdue membership upgrade, please ask Jack (or another Section Executive Committee member) for the applicable packet. Otherwise, you may be surprised to find out from Hq. that you have been "promoted" at the recommendation of one of our Section's subcommittees. In either case, the Section will look forward to your belated recognition from IEEE Hq. In addition, Hq's membership grade statistics will make our Section look much better than before.

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Conference Announcement



14th INTERNATIONAL CONFERENCE

on

RESEARCH AND DEVELOPMENT

in

SIGIR '91

INFORMATION RETRIEVAL

Location: Chicago, Illinois
Dates: October 13-16, 1991
Sponsored by: ACM SIGIR
Topics: Information Retrieval Theory
Artificial Intelligence Applications
Natural Language Processing
Interface Issues
Hypertext and Multimedia Systems
Implementation Issues

FOR MORE INFORMATION, CONTACT:

Prof. Abraham Bookstein Tel.: (312) 702-8268
Conference Chair FAX: (312) 702-0775
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SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
OCT	AUG 26	SEPT 15
NOV	SEPT 24	OCT 15
DEC	OCT 28	NOV 15
JAN 92	NOV 27	DEC 15
FEB	DEC 20	JAN 15
MAR	JAN 28	FEB 15
APR	FEB 25	MAR 15
MAY	MAR 25	APR 15
JUNE	APR 28	MAY 15

THIS ARE FIRM DEADLINES FOR ADS AND COPY!!!

CHAIRMAN'S LETTER

Welcome to the 1991-92 IEEE season of activity. Your society chapters, subsections and your section have planned a busy year of worthwhile activities for you. Their programs are there to educate you and spark your interest. But, probably even more important, the meetings they have arranged provide you an opportunity to meet your fellow engineers with similar interests, share ideas and problems, find solutions, and make new contacts or, using today's buzzword, "NETWORK".

If you belong to IEEE to receive its fine publications, you are getting a low return on your investment. In my 30+ years as an IEEE member, the principal benefit I have received has been the interaction with my fellow engineers at IEEE functions. If you are actively participating in IEEE, you know what I mean.

I have a goal, and my goal is a challenge to all section members. I challenge each of you to become more active than you have been in the past. If you have not been active, I challenge you to attend at least one meeting this year. If you are active, I challenge you to bring an inactive member with you to the next meeting you attend. I also encourage you to bring a young member along and serve as his/her mentor for IEEE. I challenge chapter, subsection and section committee chairman to appoint a vice chairman for your committee to assist you in your work and to provide an opportunity for development of our future leaders.

Finally, I challenge you all to take a greater interest in your profession and in IEEE. I was elected with less than 1% of the vote of the Chicago section. I could say, "If you don't like me, you got what you deserve". But, seriously, your participation in IEEE is important to our profession. Please accept my challenge and join us in developing a stronger section which can be more responsive to the needs of its members. I hope to see many of you at the September joint section/chapter meeting.

John R. Truitt
Chairman
Chicago Section

"OPEN HOUSE" AT ARGONNE NATL LABS - SATURDAY, SEPT. 21, 1991 - (All Day)

According to our fellow member Paul Phillips, Argonne will host their annual "Open House" event, between 9:30AM and 4:30PM. Your family, friends, and children will be welcome. The visitor's entrance is just south of I-55 on Cass Avenue. Please call Argonne's Public Affairs Office at (708) 972-5575 for any additional details, not our IEEE Office. They will also have some picnic spots available for the visitors, as well as many interesting places to visit, as in previous years.

IEEE

CHICAGO SECTION



VNA International Parameter Symposium
The 100th Anniversary Year

'92

CHICAGO SECTION MEMBERS

September, 1991

Our Activity Year starts this month with the Kickoff Dinner/Meeting at Sharko's, Villa Park on September 19. The topic is informative and timely for all as described on the adjacent page. A few new events will occur too. Plan to be there!

As announced this spring, two consecutive centennial years are coming for the IEEE Chicago Section.

- 1992 is the 100th anniversary of the International Symposium on Electricity held in Chicago. Among parameters designated were the Volt, Ohm, Amp, Watt, Henry and Farad.
- 1993 is the 100th anniversary of the first IEEE Section in Chicago.

In preparation for the first 100th commemorative year, a logo has been arranged to depict IEEE and Emblem, Chicago Section, Automated Digital Measurement, Symposium Description and Year. Please provide comments and/or interest at the bottom of this page and send to address below.

Programs - Bob Camillone, Chmn John Driver & Hugh Edfors, CoChmn

NAME COMPANY OFF TEL

< > I am interested in investigating the events and developments surrounding the 1892 International Symposium on Electricity.

< > I have comments on the 1992 Logo for IEEE - Chicago Section

Bob Camillone
Pullman Technology Inc
16412 Lathrop Avenue
Harvey, IL 60426

IEEE

CHICAGO SECTION



VNA International Parameter Symposium '92
The 100th Anniversary Year

91-92 KICKOFF DINNER MEETING

RELIABLE SOFTWARE DEVELOPMENT

COMMUNICATIONS AND MANUFACTURING

The Chicago Section, its' sub-sections and societies are holding the 1991/1992 Kickoff Dinner Meeting on September 19, 1991.

This presentation will describe the development and implementation of reliable software in applications including communications and manufacturing.

Both speakers for the evening have extensive knowledge and experience in selecting, developing and integrating software to assure its compatibility with surrounding environments.

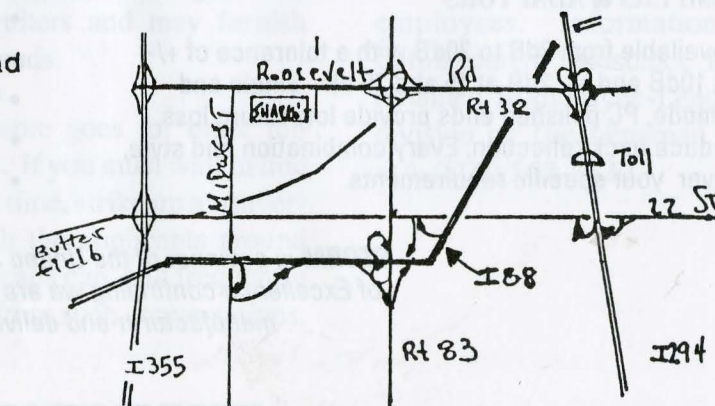
Our speakers will be Mike DiMarlo and Martin Lenow.

- Mike DiMarlo is Supervisor - Performance, Reliability & Quality
ATT Bell Laboratories, Naperville, IL
- Martin Lenow, PE is Senior Industry Consultant
Digital Equipment Corporation, Elk Grove Village, IL

Date	Thursday	September 19, 1991
Time	Social	6:00 pm Cash Bar
	Dinner	7:00 pm Prime Rib of Beef and Twice-baked Potatoes or
	Choices	Chicken Marsala and Wild Rice
		\$14.00 all inclusive
	Meeting	8:00 pm Reservation with IEEE required in advance
		including entree choice

Restaurant Sharko's
1 West Roosevelt Road
Villa Park, IL 60181

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CHICAGO
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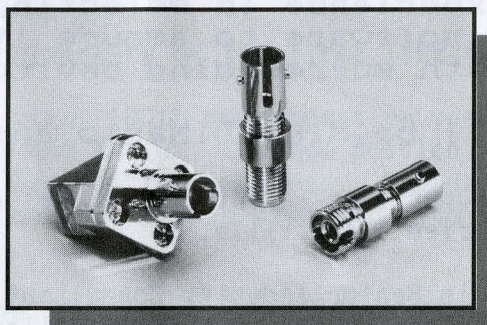
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- FC > SC
- FC > ST
- ST > SMA 905
- ST > SMA 906
- FC > SMA 906
- ST > MINI BNC
- FC > MINI BNC



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These unique adaptors are 43mm to 63mm in length, allow quick termination with loss < 1dB. Both single and multi-mode versions are available in PC polish and with Biconic, FC, D4, ST, Mini BNC, SMA and SC terminations.

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IEEE JOB FAIR PLANNED

It would appear that the news reports suggesting the end of the recession have failed to influence employers to increase their hiring of engineers and other technical people. As always, most experts tell us that good jobs are out there waiting to be filled, but it is quite evident to anyone conducting a job search that the current supply of job seekers is far greater than the number of positions available. Job seekers are encouraged to "network" with friends, relatives, and associates in order to discover the so-called "hidden job market." It is a fact that many excellent positions are not announced to the general public but, rather, get filled from the inside through the promotion of an existing employee or through a referral from an employee. Getting in touch with positions which go unadvertised is what networking is all about.

The job fair is one of the most useful methods of networking. **The IEEE Chicago Section will be sponsoring a job fair at the Embassy Suites Hotel - Lombard/Oak Brook, 707 East Butterfield Road, Lombard, IL, on September 10 and 11, 1991 between the hours of 3:00 p.m. and 8:00 p.m. each day.** IEEE members are invited to attend who are conducting a job search or who are considering doing so. No pre-registration is necessary; just show up any time during the operating hours of the program. We recommend arriving at least one hour before the end of the session in

order to see each of the companies in which you have an interest. The program is being offered to IEEE members free of charge. The event is being produced for The IEEE by The Lendman Group of Virginia Beach, Virginia, the nation's oldest and largest job fair producer.

Here are some suggestions from The Lendman Group which can help you derive maximum benefit from the job fair.

1. Bring approximately twenty resumes with you and leave one with any company that agrees to accept it.

2. Talk to everyone you can. Each company will be headquartered in a suite at the Embassy Suites Hotel. Don't be reluctant to walk into the suite and introduce yourself. It's not considered rude, and it will demonstrate your genuine interest in seeing that company.

3. If a company does not have an interest in you, ask the representative with whom you are talking to recommend any other companies that might have an interest. Recruiters mingle with other recruiters and may furnish valuable leads.

4. The same goes for other job applicants. If you must wait in line for a short time, strike up a conversation with the applicants around you. Job leads can, and frequently do, come from such conversations.

5. Sell yourself to the company representatives you meet. First, find out all you can about the specific requirements they seek. Then offer examples of how your background and experience fit.

6. Sell value! Don't talk in terms of what you did from 9:00 to 5:00: that's a position description. Tell what you have accomplished.

For a list of companies participating in the job fair, see the Employment classified section of THE CHICAGO TRIBUNE on Sunday, September 8th. All the information you will need in order to participate will be listed in our ad on that date. Good luck in your job search!

Companies which have current openings to fill will want to take advantage of this opportunity to meet with the best available technical talent the Chicago area has to offer. Information about corporate participation may be obtained from the Chicago IEEE Job Fair Coordinator at 1-(800) 562-2820. Companies in the process of downsizing are encouraged to inquire about offering a job search assistance program to their employees. Information about outplacement assistance may be obtained from Payne-Lendman, a division of The Lendman Group, at 1-(800) 562-2820.

What types of susceptibility testing does D.L.S. offer?

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- **Conducted CW (Continuous Wave)**— test set-up is similar to that of radiated susceptibility except the energy is injected directly into the power or signal leads through a coupler. This simulates radio frequencies picked up on power and signal lines and brought into your equipment.
- **Conducted Transient**— a transient generator is used to inject various levels of voltage into the signal and power leads of your equipment. This test simulates the turning on and off of other equipment connected to the same power line as your product.
- **ESD (Electrostatic Discharge)**— ESD energy is injected into multiple points on your equipment from an ESD gun.
- **Voltage Variance (Surges and Sags)**— momentary high and low line voltages are sent to your equipment from a line voltage variation simulator, creating brown-outs and surges similar to those your equipment experiences from the power line.
- **Radiated Transient**— a transient generator is used to inject energy into external wires which have been wrapped around your equipment or bundled with your cables to simulate transients radiated from nearby equipment.
- **Radiated Magnetic**— current is injected into a loop antenna generating a magnetic field which is exposed to your equipment. The frequency is normally 50 or 60 Hz but can be varied. This test simulates high magnetic fields seen near motors, transformers, and other equipment using large amounts of power.

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- MDS 201-0004 for medical equipment (includes 25 pages of rationale showing how to modify these specs for non-medical purposes)
- SAE, BELLCORE, and many others.

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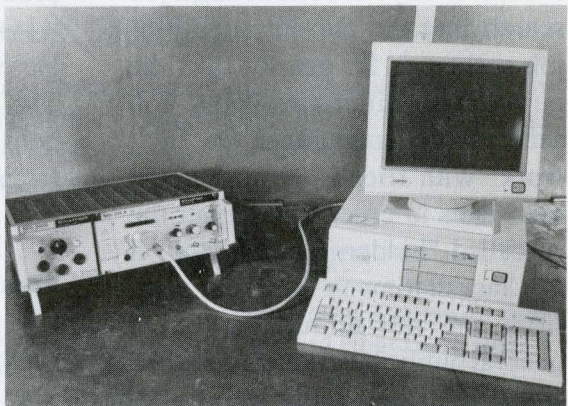
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(two names to be announced)
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John Waters

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* EXECUTIVE COMMITTEE MEMBER

July 15, 1991

To: ALL IEEE CHICAGO CHAPTER MEMBERS

From: MARY S. HART
STUDENT ACTIVITIES

In order to encourage a closer working relationship with schools and students, the Student Activities Committee is promoting two programs.

1) **DISCOVER E** An excellent interactive program designed to introduce pre-college students to engineering. We are creating a Speaker's Bureau of volunteers from our chapter to conduct presentations at local schools. The DISCOVER-E program is sponsored and organized by the National Engineering Week Committee.

2) **ENGINEERING STUDENTS WORKSHOP** Scheduled at local college campuses through the IEEE student chapters, the workshop assists students in areas critical to their job search. The workshop includes: resume and report writing skills, career responsibilities/expectations discussion panel, mock interview, personal contact with industry engineers/recruiters, etc.

If you wish to volunteer your time and service or would like additional information, please contact me at:

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IEEE MEETING NOTICE

CHICAGO CHAPTER - IEEE EMC SOCIETY

DATE: WEDNESDAY - SEPTEMBER 18, 1991
Refreshments 7:15 P.M.
Meeting 7:30 P.M.

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

SPEAKERS: HANS PRADELLA, MANAGER & EMC SPECIALIST
TUV RHEINLAND, KOLN, GERMANY
DIETHARD E.C. MOEHR, DIRECTOR OF AN EMC SUPPORT GROUP
SIEMENS A.D., ERLANGEN, GERMANY
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TOPIC: REVIEW AND UP-DATE OF THE EMC REQUIREMENTS
OF THE NEW EMC DIRECTIVE, FOR THE EUROPEAN
ECONOMIC COMMUNITY MARKETPLACE "EC-92"

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