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

TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

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

Copy Deadline for May SCANFAX is March 26, 1991

April 2 Tuesday	Fox Valley Subsection	Perspectives on Health Effects of Electric and Magnetic Fields	Wilton Manor Schmale Road Wheaton, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
April 2 Tuesday	Components, Hybrids, & Manufact. Technology; NIU, Dept of Cont. Educ.; Hybrid Microelect. Soc.	Issues and Opportunities in Microelectronics	Galvin Center for Continuing Educ., Motorola Campus, Schaumburg, IL	All Day Seminar
April 4 Thursday	Components, Hybrids, & Manufact. Technology; ASQC	"Quality Assurance (Q. A.) Day"	Argonne National Accelerator Labs Argonne, IL	Afternoon & Evening
April 7 Sunday	Chicago Section and The Lendman Group	IEEE Job Search Training Programs (for IEEE Members only)	Holiday Inn O'Hare 5440 N. River Rd Rosemont, IL	Call for your Reservation at (800) 562-2820
April 8 & 9 Monday & Tuesday	Chicago Section and The Lendman Group	IEEE Engineering Job Fair	Radisson Suite Hotel 5500 N. River Rd Rosemont, IL	For information call (800) 562-2820
April 8 Monday	AP/MTT	Adaptive Antenna Control	Atrium Restaurant 3223 Algonquin Rd Rolling Meadows, IL	Social: 5:30 PM Dinner: 6:30 PM Talk: 7:30 PM
April 9 Tuesday	Chicago Section	Executive Committee	Contemporary Controls 2500 Wisconsin Downers Grove, IL	Meeting: 7:15 PM
April 10 Wednesday	Power Engineering	Blackberry Farm Park Photovoltaic Project	Carson Pirie Scott Corporate Level Chicago, IL	Social: 11:30 AM Lunch: 12:00 noon Talk: 12:30 PM
April 11 Thursday	Computers	Open Systems & UNIX: IBM's RISC System/6000 and AIX Operating System	Interactive Systems Corp 1901 N. Naper Blvd Naperville, IL	Meeting: 8:00 PM
April 17 Wednesday	Electron Devices; Northwest Subsect.; Optical Society of Chicago	Color Picture Tube Technology	Zenith Electronics Corp 1901 W North Ave Melrose Park, IL	** Dinner: 6:30 PM Talk/Tour: 8:00 PM ** see announcement
April 18 Thursday	LEOS	Multiple-Quantum-Well Devices for Free-Space Photonics	Jerry Sharko's 2225 Ogden Ave Lisle, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM

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LETTER TO OUR CHICAGO SECTION MEMBERS

Your participation guarantees the best presentations and events in the Chicago Metropolitan Area. In spring, the number of IEEE sponsored and related offerings increases.

The *National Design Engineering Conference* comes to McCormick Place April 8-11. In conjunction are six sector expositions. Subjects include Plant Engineering/Maintenance, Environmental Technology, Facility Security, *Elect. Equipment & Buyers*, *Desktop*, *Visual & Multimedia*, *Computer for Manufacturing*.

The *American Power Conference* is April 29, 30 and May 1, 2 at the Palmer House. It covers all aspects including processes in the generation chain from inception to the user.

These special programs and our regular offerings are HERE for your enrichment. Engineers come long distances to participate. We have the gift of closeness that if accepted will ensure an increase in benefit for us and our associates.

Bob Camillone

SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
MAY	MAR 26	APR 15
JUNE	APR 30	MAY 15

THESE ARE FIRM DEADLINES
FOR ADS AND COPY!!!

SCANFAX, (Publication) number (ISSN 0018-1297), April, 1991 Volume 43, Number 8, SCANFAX is published monthly, except July and August by the Chicago Section Institute of Electrical and Electronics Engineers for the information of its members. Business Office is at IEEE Message Center—2460 Wisconsin Ave., Downers Grove, IL, 60515 (708) 963-3828. Subscription rate for IEEE members collected in dues. \$1.50; others, \$15.00 per year. Third class postage paid at Glen Ellyn, Illinois.

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.

IEEE Announces Employment Assistance Workshop and Job Fair

Few things in life can be more challenging than trying to find a new career position when opportunities in your field are reduced due to cutbacks or a sluggish economy.

A program that provides engineers and other technical professionals with enhanced job search skills can be especially beneficial in the current, challenging employment environment, and the Chicago Section of IEEE is pleased to again provide such assistance to their members. The Chicago Section of IEEE will sponsor a second EMPLOYMENT ASSISTANCE WORKSHOP which will be held on Sunday, April 7, 1991, from 9:00 a.m. to 4:30 p.m. at the Holiday Inn O'Hare, 5440 North River Road, Rosemont, Illinois. Comments from IEEE members who attended the first seminar were very positive, and if you are currently in a job search situation or believe you may face such an eventuality in the near future, we urge you to take advantage of this outstanding opportunity.

The Workshop, which will be produced by Payne-Lendman, a leading national outplacement firm, will cover topics ranging from preparing resumes and letters that "work" to tips on winning interview strategies. Payne-Lendman has developed and delivered similar programs on behalf of major companies providing outplacement as an employment benefit, including General Electric, UNISYS, AT&T, Chevron, and many others.

There is no cost to current IEEE members; however, **advance registration is required** for the seminar. There is a \$25 fee for non-IEEE members who wish to attend

and are sponsored by an IEEE member. This fee, which will be collected the day of the program, may be applied to the annual membership dues for anyone wishing to renew membership or to join the IEEE.

To register for the Employment Assistance Workshop, you only need to complete the form at the end of this article and mail it to the address indicated by April 3, 1991.

Following the Employment Assistance Workshop, the Chicago Section of IEEE will co-sponsor a TECHNICAL JOB FAIR which is open to all members of the Chicago technical community. Pre-registration is NOT required to attend the Job Fair. The purpose of the event is to provide qualified, interested parties with access to hiring managers from local and regional firms. The JOB FAIR will be held on Monday and Tuesday, April 8 and 9, 1991, from 3:00 p.m. to 8:00 p.m. each day, at the Radisson Suite Hotel - O'Hare Airport, 5500 North River Road, Rosemont, Illinois. Employers with immediate positions to fill will be on hand both days to interview qualified individuals. A wide variety of positions will be represented in engineering, computer, and related disciplines.

Bring copies of your resume and be prepared to interview. Each company will be headquartered in a private suite, which will afford confidentiality. A brochure listing each of the available positions will be provided to each attendee. For more information about the event and the companies which will be interviewing, please see the classified section of THE CHICAGO TRIBUNE on Sunday, April 7, 1991.

IEEE EMPLOYMENT ASSISTANCE WORKSHOP

Sunday, April 7, 1991
9:00 a.m. - 4:30 p.m.

Holiday Inn O'Hare
5440 North River Road
Rosemont, Illinois

IEEE JOB FAIR

Monday, April 8, 1991
and
Tuesday, April 9, 1991
3:00 p.m. - 8:00 p.m. each day

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

Companies which have current openings to fill will want to take advantage of this opportunity to meet with the best available technical talent Chicago has to offer. They are urged to call 1-(800) 562-2820 and ask for the Chicago IEEE Job Fair Coordinator for information on how they may participate in this event.

Companies which are in the process of downsizing are also invited to call 1-(800) 562-2820 and ask for a Payne-Lendman representative for information about offering a job search assistance program to their employees who will be affected. Providing this type of training in situations where employees are being terminated is extremely beneficial to all concerned.

Please complete this form and mail it to:

Chicago IEEE Program Coordinator
c/o The Lendman Group
5500 Greenwich Road
Virginia Beach, VA 23462

Pre-registration deadline: Form must be received by Wednesday, April 3d.

Your Name: _____

Company Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone () _____ (Work ____; Home ____)

☐ I will attend the Employment Assistance Workshop on Sunday, April 7th, at the Holiday Inn O'Hare, 5440 North River Road, Rosemont, Illinois.
Member No.: _____

☐ My company is interested in participating as an employer. Please contact:
Name: _____
Company: _____
Tel. No.: _____

Space is limited - we encourage you to register as soon as possible.

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When you bring your equipment to D.L.S. you can be assured that you are receiving the proper test...that it

is set up according to specified test procedures and that the results are valid and repeatable.

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When your product passes at D.L.S. you know it will pass its audit on the first visit to the regulating agency. As a result, you will be spared the wasted time of making changes, implementing costly fixes, re-testing and re-submitting, all under the time pressures of due dates. Think about your savings in dollars and time when you bring your product to D.L.S.

*Your product exactly as tested by D.L.S. with no changes made after testing



TOPIC: MICROLENSES FOR INTEGRATED PHOTONICS APPLICATIONS

DATE: Thursday, March 28, 1991

SPEAKER: Dr. Kasra Rastani, Bellcore

LOCATION: Jerry Sharko's, 2225 Ogden Ave., Lisle, Illinois

Miniature lenses in both singular and array forms are finding many uses such as optical interconnections, communications, and integrated optics. They can be used to generate arrays of mutually coherent focused beams, provide multiple images, and Fourier transforms. Their design, micro fabrication, analysis, and limitations for integrated optics, surface-emitting laser arrays, and free-space optics will be discussed.

AGENDA: 6:00 p.m. Social/Business Meeting (Cash Bar)
7:00 p.m. Dinner (\$13 per person, \$7 for students)
8:00 p.m. Technical Presentation (No charge)

REGISTRATION: Entree choices are Chicken Primavera or Orange Roughy. Advanced dinner reservations should be made by calling the IEEE Chicago Message Center at (708) 963-3828 by 5:00 p.m. on Tuesday, March 26, 1991. For additional information, contact Jan P. Hessler at (708) 972-3717.

Northwest Subsection

TOUR OF FERMI NATIONAL LABORATORY

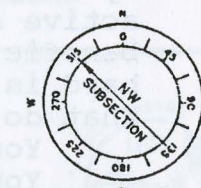
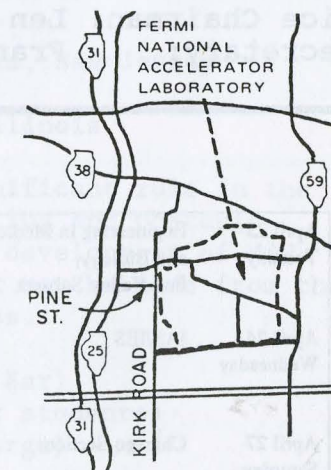
Northwest Subsection invites you to a tour of FERMILAB (formally known as the Fermi National Accelerator Laboratory) on Batavia Road in Batavia, IL.

The two hour tour is limited to 40 people.

Place: Meet in the lobby of the 15 story "high rise" building on Batavia Road
Date: Saturday, May 4, 1991
Time: 10:00 AM

Travel Directions: Take Route 59 to Batavia Road. Proceed west on Batavia Road to the high rise building. Ample parking is available around the building. Enter via steps (at the national flags) leading from the two lagoons.

For reservations and additional information contact the IEEE Message Center (708) 963 3828. Because of security Fermilab needs a list of prospective visitors before April 20. Visitors must be at least 16 years old.



NORTHWEST SUBSECTION ENDS TWENTIETH YEAR

Since its first meeting on January 22, 1970 the Northwest Subsection (NWSS) has been serving IEEE members in the northwest portion of the Chicago Section. The NWSS has approximately 1600 members. With the completion of this anniversary year it seems appropriate to review what the NWSS is and what it does.

The NWSS was established to make it more convenient for IEEE members to participate in the activities of the IEEE. When the NWSS was founded most of the Chicago Section technical meetings were held in the downtown area. The founders of the NWSS felt that there should be local meetings that would be more convenient for the northwest suburban members to attend. So with the guidance of the sister subsection, Fox Valley, the NWSS was founded.

Over the last ten years, many of the chapters have been holding meetings in the northwest suburbs, so the original motivation for the NWSS may no longer apply. However, because the NWSS has a wider range of interest it can provide service to a larger number of IEEE members. The NWSS holds five meetings a year. Most meetings are joint meetings with various IEEE chapters so that we can provide a variety of topics. The NWSS hopes to continue to serve the IEEE members in the years to come, BUT we need your help. Several positions on the executive committee need to be filled. If you can spare a few hours a month we can use you. And by helping your profession you can help your career. Becoming active and helping your professional society in this way is beneficial to you and easy. How easy is it? Or conversely how hard is it? You can put as much effort into it as you want. What do you get in return? You get leadership experience.

You get to meet and exchange ideas with your peers.

You add to your credentials of professional achievement.

You get the personal satisfaction of contributing to your chosen profession.

For more information contact any Northwest Subsection officer.

Chairman: Howard Myers 815 459 0100
Vice Chairman: Len Cohen 708 272 8800 X2692
Secretary: Frank Heffley 708 367 8282

CALENDAR (continued)

April 23 Tuesday	Engineering in Medicine and Biology; Fox Valley Subsect.	Design Considerations for Diagnostic Digital Telemetry Systems	Wilton Manor Schmale Rd. Wheaton, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
April 24 Wednesday	IAS/IES	The Nature of Harmonic Distortion & its Impact on Electrical Safety	S & C Electric Co. 6601 N Ridge Chicago, IL	Social: 5:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
April 27 Saturday	Chicago Section	1991 Recognition Dinner	Embassy Suites Hotel 6501 N. Mannheim Rd Des Plaines, IL	see our poster inside how to make your dinner reservations
May 4 Saturday	Northwest Subsection	Tour of Fermi National Accelerator Labs	Fermi Labs - High-Rise Bldg Batavia Rd Batavia, IL	Tour: 10 AM reservations are necessary

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

APRIL 1991 MEETING NOTICE

Adaptive Antenna Control

PRESENTED BY
JAMES P. PHILLIPS
SENIOR MEMBER IEEE
MOTOROLA INC.

Energy density antennas provide independent outputs for the E-field and the H-field energy. The independent outputs of these antennas can be selected or combined to enhance or diminish the strength of a multipath, scattered signal. In the multipath environment, the characteristics of the fields change very rapidly and conventional LMS methods of adaptation impose an impractical computational burden. The use of suboptimal adaptive algorithms reduces the computational burden and hardware complexity to a manageable level so that the algorithm can be implemented with simple microcontrollers. Adaptive antennas using these algorithms benefit in environments where there are few major scatterers.

DATE: Monday, April 8, 1991
PLACE: The Atrium Restaurant 1st exit north of I90 off Rt.53
3223 Algonquin Road 1/4 mile east on Rt.62
Rolling Meadows, Ill. Algonquin Road
TIME: Social - 5:30 PM
Dinner - 6:30 PM
Meeting - 7:30 PM

Please make your reservations by noon on Friday, April 5, by calling (708) 963-3828. A reservation is required, even if you plan to attend the meeting only. The dinner cost is \$22.00. Non-IEEE members are welcome.

LASERS AND ELECTRO-OPTICS SOCIETY

CHICAGO CHAPTER

TOPIC: Multiple-Quantum-Well Devices for Free-Space Photonics
DATE: Thursday, April 18, 1991
SPEAKER: Dr. David A. B. Miller, AT & T Laboratories, New Jersey
LOCATION: Jerry Sharko's, 2225 Ogden Ave., Lisle, Illinois

Multiple-Quantum-Well (MQW) devices are gaining a significant role in the process of developing architectures for optical computing and photonic switching. Dr. Miller's talk will concentrate on the development of MQW materials, their properties, the types of devices that may be made from these materials, and representative examples of these devices.

AGENDA: 6:00 p.m. Social/Business Meeting (Cash Bar)
7:00 p.m. Dinner (\$13 per person, \$7 for students)
8:00 p.m. Technical Presentation (No charge)

REGISTRATION: Entree choices are Chicken Primavera or Orange Roughy. Advanced dinner reservations should be made by calling the IEEE Chicago Message Center at (708) 963-3828 by 5:00 p.m. on Tuesday, April 16, 1991. For additional information, contact Jan P. Hessler at (708) 972-3717.



MORE ON MIDCON

The IEEE and ERA are co-sponsors of Midcon. We assume you are aware of the IEEE and its objectives, but we may not be familiar with the ERA and their operations. The ERA, the Electronic Representatives Association is made up of a group of responsible business men, many of whom are engineers, who are authorized by the manufacturers of electrical products to market those products on their behalf.

Many IEEE members know ERA people and consider them a valuable source of expert information on the application of a product to meet a specific need. We may identify these individuals as salesmen, a term subject to many interpretations, which may be due to the single side of this individual that we see. What we may not be aware of is the real hard work that goes into preparing for that sales call before they greet you with a handshake and a smile. Most ERA members have spent many hours at the manufacturers headquarters learning in great detail the characteristics of the product they are selling. They then must seek out potential users and acquaint them with the advantages of the product.

These are the individuals who invest their time and money to provide the wealth of information we see in the product displays in the exhibition area of Midcon. Few of us are aware of the preparation that precedes this event. A visit to the exhibition hall on set up day, the day before the show opens, presents a scene of hopeless confusion with crates of displays scattered about, and the carefully groomed individuals we are accustomed to seeing now in working clothes, negotiating with carpenters and electricians; hoping they can complete their set up before the overtime hours start.

These are our partners in providing a successful show for the benefit of our members. Here you can see, examine, and touch the components you need to incorporate into your new innovative design. You can discuss with an expert in his or her field the new products available in the rapidly evolving electronics industry. They need us and we need them to make our free economy work.

Now is the time to plan on attending the Midcon Show, even though the dates are September 11 thru 13. Request time on those dates from your supervisor to attend. your company will benefit from your expanded knowledge gained from the technical seminars and product information. Ask your friend to join you and make it a fun time.

MEMBERSHIP SERVICES NOTES

1. **CHANGE OF ADDRESS:** You can call IEEE Piscataway directly to verify your membership, change your address, get an upgrade kit, or add/drop Society membership by calling 1 800 678 4333. Listen for the "Membership" instructions. You may also use this number to buy IEEE Press books and get lists of Standards.

2. **SECTION DATABASE:** Our membership database has been upgraded. From this, we can supply names of IEEE Technical Society members for you to plan meetings, establish Chapters, or plan Conferences. Mailings are required to bear an IEEE coding. Commercial uses are not authorized. Call Jack Sherman, 708 576 8222.

POWER ENGINEERING SOCIETY



IEEE

SPEAKER: Dr. C. E. Francis, Illinois State University

TOPIC: The Blackberry Farm Park Photovoltaic Project

ABSTRACT: The Blackberry Farm Park Photovoltaic Project is a joint effort among the Illinois Department of Energy and Natural Resources, Commonwealth Edison, the Fox Valley Park District, and Illinois State University. It is described as a residential scale utility-interactive system and has a peak rating of 5.47 kW.

The project consists of four individual and complete systems; each powered by a different photovoltaic cell type. The system has been in operation since June 1987 providing reliable service and a multitude of data. The speaker will discuss design, construction, operation, and data.

BACKGROUND: Dr. Francis has BS and MA degrees from Western Michigan University and his doctorate from the University of Missouri, Columbia.

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

DATE: April 10, 1991

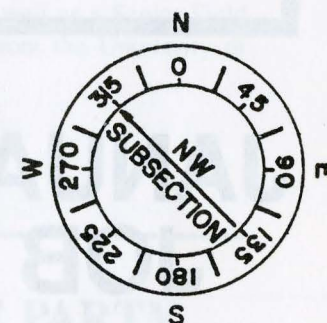
TIME: 11:30 Social 12:00 Lunch 12:30 Presentation. Reservations must be made by noon Monday, April 8, 1991 by calling 708-963-3828. Please leave name(s) and company name. Lunch is \$9.00.

JOINT MEETING OF THE ELECTRON DEVICES SOCIETY AND THE NORTHWEST SUBSECTION AND THE OPTICAL SOCIETY OF CHICAGO

April 17, 1991

"Color Picture Tube Technology"

by James R. Fendley
Zenith Electronics Corporation



This will be a two part program. The first part will be an historical review of the design and processing of cathode ray tubes which will include a guided tour of Zenith's production facility for TV picture tubes. The second part will focus on the performance and advantages of the recently developed flat tension mask (FTM) computer monitor tube.

J.R. Fendley received the BA degree from St. Mary's University and the MSE degree from the University of Pennsylvania. He is currently engaged in Development Engineering at Zenith's picture tube plant.

Place: The Development Engineering Conference Room, Zenith Electronics Corporation, Rauland Division, 2407 North Ave., Melrose Park. Persons attending should park at the south end of the Zenith building and enter the south entrance of the plant on North Ave., near 25th Ave.

Time: 8:00 p.m.

Prior to the Meeting: An informal dinner is planned for 6:30 p.m. at Tom's Steak House, 1901 West North Ave., Melrose Park. Service will be from the regular menu; ask for the location of the IEEE Tables.

Reservations: Call the IEEE office at (708)963-3828; please state whether you intend to join us for dinner before the meeting, or only attend the meeting.

WANTED ENGINEERS

- WHO WANT TO START OR EXPAND A CONSULTING PRACTICE . . . WITHOUT GIVING UP OR COMPROMISING THEIR PRESENT JOBS
- WHO WANT TO LEARN HOW AND WHERE TO FIND CLIENTS
- WHO WANT TO KNOW WHAT OTHER CONSULTANTS AND ENGINEERS ARE DOING TO PREVENT AND REVERSE TECHNICAL OBSOLESCENCE AND TO UPDATE THEIR TECHNICAL BACKGROUNDS . . . WITHOUT GOING BACK TO SCHOOL.

A 2-HOUR EDUCATIONAL SEMINAR

SPEAKER: DR. GARY L. BLANK (OVER 25 years as a Consulting Engineer)

WED., APRIL 10, 7:00 PM, WOODFIELD HILTON, Euclid at Rt. 53, Arlington Heights

TUES., APRIL 16, 7:00 PM, SHERATON at Naperville Rd. & I-88

REGISTRATION: ACCEPTED AFTER MARCH 24 BY PHONE. \$25.00 IN ADVANCE, \$30.00 AT THE DOOR (Includes TWO audio cassettes and a set of notes at the end of the seminar). LIMITED SEATING.

ENGINEERING UPDATE INSTITUTE

P.O. Box 155

Plato Center, Illinois 60170

(708) 464-4006

JANUARY '91 JOB FAIR



The Chicago Chapter of the IEEE Computer Society and
/usr/group/chicago, the local UNIX® Users Group of UniForum
invite you and your friends to our April Meeting

TOPIC: OPEN SYSTEMS and UNIX: IBM's RISC System/6000 and AIX Operating System

SPEAKER: Robert C. Stackowiak
AIX Area Marketing Support at IBM's Chicago Office

DATE: April 11, 1991

PLACE: INTERACTIVE Systems Corporation, 1901 N. Naper Boulevard, Naperville, IL
[west side, immediately north of the Naperville Road Exit of I-88]

TIME: 8:00 PM

RESERVATIONS: Please call IEEE Office at (708) 963-3828 before 4/9/91 (to let us plan for enough chairs)

ABSTRACT

Mr. Stackowiak will present an overview of IBM's current strategy in Open Systems and UNIX: the RISC System/6000 Workstation, AIX (IBM's UNIX implementation), the direction of the Open Software Foundation (OSF), and IBM's implementation of OSF products. He plans to demonstrate some of the AIX software technology on this workstation.

ABOUT OUR SPEAKER

Bob provides AIX support to IBM marketing teams in the Chicago area. Prior to joining IBM in 1989, he served as a Civil Engineer and Computer Programmer at the U.S. Army Corps of Engineers, as well as a Senior Field Analyst and Marketing Representative at Harris Computer Systems. Bob has a BSCE from the University of Notre Dame and is a Registered Professional Engineer in Minnesota.

BRING SOMETHING AND COME TO THE PARTY

It is the event of the year in our profession. This is the party for everyone involved in any aspect of the electronics industry in the midwest, and a lot of enthusiastic people are participating. Midcon 1990 in Dallas was a success. The spotlight now moves to Chicago in September for Midcon 1991. Let us show our friends in Dallas and around the world that Chicago is indeed a leader in the electronics industry. After all, we have the Bears, the Bulls, the Blackhawks, the Cubs, the White Sox, and more. Add Midcon 1991 to this list.

If you are reading this newsletter you are an important host of this show. We are organizing an exciting program of technical sessions and tutorials with the help of the Chicago area engineering community. Instead of the traditional national call for papers we have restricted this activity to individuals and groups in this area. The response has been gratifying. We have only a few more sessions to organize. Do you have the expertise and contacts to organize a technical session or tutorial on a particular topic? Can you draw upon colleagues from your company, society, educational institution, or circle of acquaintances? We plan to finalize the program by early April. Please call me at (312) 567-3221.

Dr. Gary L. Blank
Convention Director, Midcon 1991

IEEE CHICAGO SECTION – PLACEMENT SERVICE APPLICATION FORM

Prospective employers will receive the information on this form on request unless marked "CONFIDENTIAL" at the top of this form. Please notify us immediately if you accept employment to leave space for other search ads.

Each search ad will run in two consecutive monthly SCANFAX issues (not published during July and August). The submission deadlines for all imminent SCANFAX issues are listed elsewhere in this issue of SCANFAX. The number of search ads per issue may be limited by space constraints.

(please print)

Name _____ IEEE No. _____ Expir. Date _____

Address _____ IEEE Grade _____

City/State/ZIP _____ Phone (____) _____

Please limit your text to the 99 spaces provided:

[illegible]

The IEEE and its Chicago Section waive any responsibility in determining the credibility, accuracy, or qualifications of applicants or employers. Please send your application form to:

IEEE Placement Service
c/o Robert A. Schrage
Commonwealth Edison Co.
P.O. Box 767 - SEED 836E
Chicago, IL 60690

IEEE CHICAGO SECTION – SCANFAX PLACEMENT SERVICE

The Chicago Section operates a free placement service for its *unemployed* members currently at the Member Grade and above. If you want to contact any of the applicants listed below about a potential opening, you can get the name and phone number by calling our office at 708-963-3828 during business hours.

* * If marked "confidential", our office will notify this applicant about the prospective employer's inquiry. * *

No.	Description
-----	-------------

- | | |
|-----|--|
| 225 | BSEET – Recent Graduate; Seeking Entry-Level Position: Interested in Microprocessor Applications & Programming |
| 226 | MSEE/MBA – Seeking Technical or General Management Role in Biotech, Electronics; 10 Years of Experience including Consulting |
| 227 | BSEET – 5/90 SIU-C with Computer Experience; Seeking Entry-Level Position in RF or Electronic Design/Testing |
| 228 | BSEE/MBA/PE – 15 Years in Systems, Communications, Software, Controls and Power; Seeking Technical/Management Position |
| 229 | MSEE – Director of QA – Numerous Design and Process Improvements; Managed Engineering Development Programs |
| 230 | MSCS – Technical Manager of Software Engineering; 4 Years of Experience in C/UNIX, FORTRAN/VMS, INGRES 6.3 ; also BA in Management |
| 231 | Seeking Part-Time Employment in Electronics/Communications; half a century of experience; degreed and licensed |
| 232 | Plant Manager – Proven Manager of Operations, People, Materials; Problem Solver with SPC, MRP, JIT, Quality Circles |
| 233 | MSEE – Software Engineer/Manager of Critical Care, Medical Electronics, and Networks |
| 234 | Project Consulting – MSEE, Hardware, Software, and Management Experience; Video Systems, Microcontrollers, "C", Assembly |

FOX VALLEY SUBSECTION

with

ENGINEERING in MEDICINE and BIOLOGY

TOPIC: Design Considerations for Diagnostic Digital Telemetry Systems

DATE: Tuesday, April 23rd, 1991

SPEAKER: Mike Alterman,
Siemens Medical Systems

PLACE: Wilton Manor, Schmale Rd., Wheaton

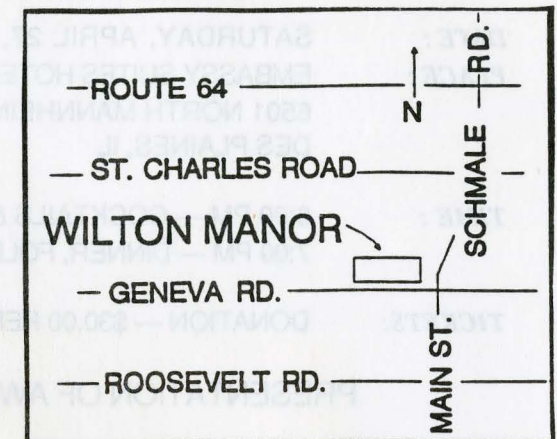
TIME/COST:

Social:	6:00 p.m.	Cash Bar
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Dinner:	7:00 p.m.	\$12.00
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Students with ID:	\$10.00
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Speaker: 8:00 p.m. *Free**



RESERVATIONS: Call (708) 963-3828 to make reservations for Dinner and/or Meeting, **by Friday, April 19th 1991**. Casual attire appropriate, as always.

TECHNICAL QUESTIONS: Direct questions about our topic or speaker to Britt Berek at (708) 981-3593.

ABSTRACT: Mr. Alterman will present an overview of techniques used in the design of medical digital telemetry systems. These systems are used for transmitting and displaying physiological parameters, for example, ECG signals. He will highlight innovative techniques used for reliable/fault tolerant transmission, signal processing and interactive user interfaces.

ABOUT OUR SPEAKER: Mr. Alterman has been with Siemens for the past 15 years, where is currently Product Manager, Electromedical Division. He received his B.S.E.E. degree from Lehigh University in Bethlehem, PA and a M.S. in Biomedical Engineering from Drexel University in Philadelphia. Mr. Alterman has been an IEEE member for over 15 years.

* Note: While the meeting is free, recognize that the room is subsidized by the cost of the dinners. Attending the dinner helps to support our continued offering of interesting meetings.

Presented by: I.A.S./I.E.S. Chicago Chapter

When: Wednesday, April 24, 1991

Where: S and C Electric Company
6601 N. Ridge Blvd., Chicago, IL
(1800 W. Devon Ave. after 5:30 p.m.)

Event: The Nature of Harmonic Distortion and Its Impact on Electrical Safety

Equipment having nonlinear load characteristics, such as desktop computers, printers, UPS, electronic lighting controls and variable speed motor drives are being connected to electrical distribution systems at an increasing rate. The major effect of a nonlinear load is that it produces harmonic voltage and current distortions. Besides causing nuisance problems, harmonic voltage and current distortions can increase the risk of an electric shock or fire hazard in many products.

This presentation discusses some of the basic principles regarding harmonic distortion, why safety engineers should be concerned about nonlinear loads, causes and effects of harmonic distortion, measurement and elimination of harmonics, and work being done by UL to address these concerns.

Featured Speaker: Dave Dini, Underwriters Laboratories

David A. Dini received the B.S.E.E. degree from Bradley University, Peoria, Illinois in 1974.

He joined the Underwriters Laboratories Electrical Division working with the safety testing of power control and industrial control equipment. His present activities include new technology research and development for UL.

Program Timetable: 5:30 - Social

6:30 - Dinner (Bldg. 3 Cafeteria via main lobby of N.J. Conrad Laboratory Bldg.)

7:30 - Technical Presentation (Bldg. 14 - Product Demonstration Center)

To make you reservations for the dinner, call Chuck Wintergerst at Underwriters Laboratories (708-272-8800, Ext. 2836) or the I.E.E.E. Office at (708)963-3828.

• • PLEASE POST — INVITE YOUR FRIENDS AND BUSINESS ASSOCIATES • •

IEEE RECOGNITION DINNER – 1991

DATE: SATURDAY, APRIL 27, 1991

PLACE: EMBASSY SUITES HOTEL
6501 NORTH MANNHEIM ROAD (AT HIGGINS),
DES PLAINES, IL

TIME: 6:00 PM — COCKTAILS & HORS D'OEUVRES
7:00 PM — DINNER, FOLLOWED BY PROGRAM

TICKETS: DONATION — \$30.00 PER PERSON

PRESENTATION OF AWARDS BY CHICAGO SECTION

1991 IEEE Fellow Awards

Barry N. Feinberg (Center for Engineering Analysis Co.)
Gerald L. Gottlieb (Rush-Presbyterian Medical Center)
Ravinder K. Jain (Amoco Research Center)
Charles J. Robinson (Rehabilitation Ctr, Hines VA Hospital)
Mauro J. Walker (Motorola, Inc.)

1991 Student Awards	1991 Student Advisor Awards
(Names to be announced)	

1991 Section Awards to Industry (Honorees to be announced)

THE SOCIAL SCENE

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Chairman	— Henry Korman, Gentry Technologies
Vice Chairman	— Frank Lakowski, United Chemi-Con Inc.
Secretary	— Jim Barrett, MacGregor & Co.
Treasurer	— John Waters, Waters Associates, Consultants
Arrangements	— Gene Golemo, Motorola, Inc.
Entertainment	— Ray Schulenberg, Motorola, Inc.
Tickets	— Joseph Feitler, Interactive Systems Corporation
Solicitations	— Sheldon Isenberg, Northrop Corporation, DSD (Chairman)
	— John Ellis, Motorola, Inc.

PLEASE ORDER YOUR TICKETS (at \$30 per person)

- by mail — Joe Feitler, Box 72, River Forest IL 60305 (no later than April 23, 1991)
- by phone — Joe Feitler at ISC: (708) 505-9100, x277 (no later than April 24, 1991)
- Please tell us about your groups — We will have tables seating 10 people
- You may request a fish or vegetarian dinner no later than April 24, 1991