

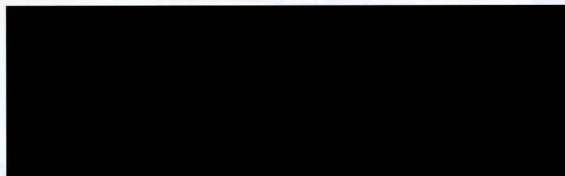


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TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations please call IEEE Office at (312) 236-4333 before the stated deadline
The meeting details are stated in their relevant announcements inside

May 3 thru 6 Monday - Thursday	Circuit and Systems Society	International Symposium on Circuits and Systems	Sheraton Chicago Hotel 301 E North Water Street Chicago, Il.	Call for Details 303.530.4562 or 312.996.2462
May 5 Wednesday	Electron Devices/CHMT Societies/Northwest Subsection	Next Generation Semiconductor Materials for High Performance Optoelectronic Devices	Motorola Center 1295 E. Algonquin Rd. Schaumburg, Il.	Meeting: 7:00PM
May 6 Thursday	Reliability/Computer/SMC Societies	Software Reliability, Modeling and Assessment	Jerry Sharko's 2225 Ogden Ave. Lisle, Il.	Social: 6:00PM Dinner: 7:00PM Meeting: 8:00PM
May 8 Saturday	Power Engineering Society	The Power House Tour	The Power House 100 Shiloh Blvd. Zion, Il.	Tour: 10:00AM Call 312.236.IEEE for Details & Reservations
May 11 Tuesday	Chicago Section	Executive Committee	DeVry-DuPage 1221 N. Swift Rd. Addison, Il.	Meeting: 7:15 PM
May 12 Wednesday	Power Engineering Society	Pre-engineered Packages Simplify Automated Distribution Feeder Systems	Chicago Bar Association 321 S. Plymouth Ct. Chicago, Il.	Social: 11:30AM Lunch: 12:00noon Meeting: 12:30PM
May 12 Wednesday	Communications Society	Ameritech's PCS Vision	Sharko's Restaurant 2225 Ogden Ave. Lisle, Il.	Social: 6:00PM Dinner: 7:00PM Meeting: 8:00PM
May 12 Wednesday	Computer Society	ARCNETplus: A High- Performance Multi-Speed Local Area Net (LAN)	Wilton Manor Main Steet & Geneva Rd. Wheaton, Il.	Social: 6:00PM Dinner: 6:30PM Meeting: 7:30PM
May 15 Saturday	Calumet Section/Medicine and Biology/Power Electronics Societies	Electric Systems in Health Care Facilities	NIPSCO Industries Complex 801 E 8th Ave. Merrillville, In.	Meeting: 8:00AM Call to Register 219.647.5643
May 20 Thursday	IEEE Videoconference	Delivering Product For The Global Marketplace	Location To Be Determined	Starting: 11:00AM Call (708)576-8222 or 312.236.IEEE for Details
May 25 Tuesday	Fox Valley Subsection/ American Society for Quality Control	Achieving ISO 9000 Certification	Jerry Sharko's 2225 Ogden Ave. Lisle, Il.	Social: 6:00PM Dinner: 7:00PM Meeting: 8:00PM
May 26 Wednesday	SMC/Computer/Reliability/ Components Hybrids, & Manufacturing Technology Societies	Symposium on Manufacturing and Linked Engineering	Hyatt Regency O'Hare Hotel 9300 W. Bryn Mawr Rosemont, Il.	Meeting: 1:00PM Call for reservations 800.873.8835
May 27 Thursday	Antennas & Propagation/ Microwave Theory & Techniques Societies	Officer Election & Finite Difference Time Domain Method in Electromagnetism	El Torito 525 W. Roosevelt Rd. Lombard, Il.	Social: 6:30PM Dinner: 6:30PM Meeting: 7:30PM

May IEEE Videoconference

- May 20, 1993 Delivering Product for the Global Marketplace by Asmus Freytag of Microsoft Company

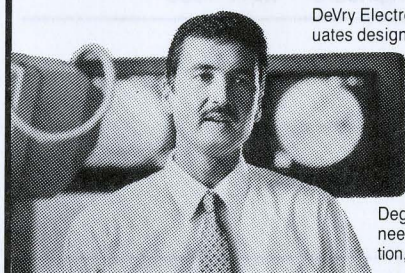
This presentation will begin at 11:00AM and will take nearly 2 hours. Expect a modest charge for your participation. Further details can be obtained either from Jack Sherman or from our Section's business office by mid May.

☛ The Chicago Section is preparing a loan service for segments of previous Videoconference tapes. Details are announced elsewhere in this SCANFAX issue.

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SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
JUNE	APR 28	MAY 15

THESE ARE FIRM DEADLINES FOR ADS AND COPY!!!

100 YEARS OF ELECTRICAL ENGINEERING IN CHICAGO

The Chicago Section's preparation are well underway to celebrate our 100th birth year. Our Centennial Committee chairpeople are working very hard to make our special program memorable and exceptional, under the Co-Chairmen George Thomas and Dennis Lamont.

The "Chicago Council of the American Institute of Electrical Engineers" (AIEE) was formed at the 1893 World's Fair in Chicago. There 21 Chicago-based AIEE members signed a petition which started our activities in 1894. Since then, our Section has continued growing to over 7500 members in the Chicago area. In 1962 the AIEE and the Institute of Radio Engineers (IRE) merged to become the IEEE.

Our Chicago Section members and numerous local companies have contributed to many advances in electrical and electronic technology throughout these 100 years. In late February 1993, IEEE's Board of Directors met in Chicago to recognize our centenary — the very first in IEEE's history — and presented a special banner to us which you saw at our 1993 Recognition Dinner. The culminating event of our Centennial Year will be a gala dinner meeting for all of our members, friends, as well as for our long-time supporters from local industries and academic institutions. We will meet at the Museum of Science and Industry on October 9th, 1993 at one of the few buildings still remaining from the *Columbian Exhibition*. We will receive the unique opportunity for a special private tour of selected areas, particularly those which commemorate that famous Exposition. We will keep you posted on the special activities via SCANFAX and other publications.

So, please, mark your calendars now and tell your friends and professional colleagues to do the same. In addition, the Centennial Committee will welcome additional volunteers, as well as suitable articles and camera-ready copies of suitable historical material to appear in a proposed "Special Centennial Edition" of SCANFAX. In fact, many of our local firms and academic institutions may serve as valuable information resources if you solicit their assistance.

Frank H. Heffley — Publicity Committee Chair of the Centennial Committee

(Edited by SCANFAX's Editorial Staff)

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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.

POWER ENGINEERING SOCIETY

SPEAKER:

Mr. Arthur T. Eagen
Sales Territory Manager
S&C Electric Company

TOPIC:

Pre-engineered Packages Simplify Automated
Distribution Feeder Switching

PLACE:

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

DATE/TIME:

May 12, 1993 / 11:30 Social, 12:00 Lunch,
12:30 Presentation

ABSTRACT: Perhaps one of the factors that has limited the widespread move towards distribution automation has been the lack of a feeder switching device specifically designed for this application. This presentation will discuss the development of of automated switching systems for both overhead and underground feeders using a "package" concept wherein all of the components are provided in one completely self-contained integrated package. The components were specifically designed to work together, and the packages were thoroughly tested under realistically severe conditions to prove that the components were properly matched and to ensure proper performance. The presentation will also cover some of the challenges that had to be overcome to gain market acceptance of the package concept.

BACKGROUND: Mr. Eagen is a graduate of Western Michigan University, Kalamazoo, Michigan, and holds a Bachelor of Science degree in Electrical Engineering. He is active in the IEEE, and has been involved with the Power Engineering Society for a number of years. Art was Chairman of the Chicago Chapter of the Power Engineering Society, 1988-89, and has held several other positions on the Executive Committee of the Chicago Chapter. Arthur Eagen joined S&C Electric Company, Chicago, IL in February 1989 as a Sales Territory Manager for Iowa and portions of Illinois. Previously he was associated with ASEA Brown Boveri.

RESERVATIONS MUST BE MADE BY MONDAY 5/10/93, 12:00 PM. RESERVATIONS MAY BE MADE BY CALLING THE IEEE CHICAGO MESSAGE CENTER PLEASE LEAVE NAME(S) AND COMPANY NAME(S) FOR THOSE WISHING TO ATTEND.

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

THE SYSTEMS, MAN & CYBERNETICS, COMPUTER, RELIABILITY, AND COMPONENTS, HYBRIDS & MANUFACTURING TECHNOLOGY SOCIETIES' CHICAGO CHAPTERS

INVITE YOU TO A SYMPOSIUM OF MANUFACTURING AND LINKED ENGINEERING

DATE: Wednesday, May 26, 1993
PLACE: Hyatt Regency O'Hare Hotel, 9300 W. Bryn Mawr, Rosemont, IL
TIME: 1:00 PM — 7:00 PM
RESERVATIONS: 800 873-8835 (Hewlett-Packard)

Hewlett-Packard, a quality manufacturer of high-technology electronic equipment, is inviting you to this manufacturability symposium. The presentations will cover:

- Experiences in Applying Technology to Manufacturing at HP
- Integrated Manufacturing Trends
- Concurrent Engineering
- ISO 9000 Quality Standards at HP
- Activity-Based Costing

Over 50 Specialists will be available to discuss with you the challenges in engineering, manufacturing operations, administration, sales and marketing, and integration.

This is another special *Chicago Section Centenary Event* for 1993.

*** Please make all your reservation directly with HP at 800.873.8835 ***



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Meeting of the IEEE Communications Society (Chicago Chapter)

DATE: Wednesday, May 12, 1993
GUEST SPEAKER: Barbara Benko, Director, Ameritech Services
TOPIC: Ameritech's PCS Vision
PLACE: Sharko's Restaurant, 2225 Ogden Avenue, Lisle, IL
TIME/COST: Social: 6:00 PM - Cash Bar
Dinner: 7:00 PM - \$13.00
Speaker: 8:00 PM - FREE

RESERVATIONS: Call (312) 236-4333 to make dinner reservations by Monday, May 10, 1993

FURTHER INQUIRIES: For more information contact Janusz Hyziak at (708) 576-8426.

ABOUT THE PRESENTATION: Personal Communications Services (PCS) is a quickly emerging technology while combining existing telecommunications infrastructure with wireless communications technologies, it is introducing new opportunities and obstacles for implementors and service providers.

Barbara will discuss the current PCS trial activities as well as Ameritech's expectations for offering a PCS access service to providers in the 1995 timeframe. The presentation will briefly describe the distinction between the regulated and unregulated aspects of PCS and then focus on the challenges that Ameritech faces in trying to offer PCS access services from a regulated public switched telephone network.

ABOUT THE SPEAKER: Barbara Benko is a Director at Ameritech Services in Hoffman Estates, IL, and has management responsibilities for planning and deploying Advanced Intelligent Network (AIN) services and technologies within the five state Ameritech region (Illinois, Indiana, Michigan, Ohio, and Wisconsin). Ameritech is currently planning to deploy 6 AIN services in the 1994 timeframe and is currently involved in a PCS trial to determine the marketability of a PCS access service using network based ISDN and AIN technologies.

Barbara joined Ameritech Services in September of 1991 and has been working towards commercial deployment of AIN technologies and services within the Ameritech region since joining the company. Prior to working for Ameritech, Barbara worked at AT&T Bell Laboratories for 6 years as a senior telecommunications consultant. Barbara has also worked as a project manager at a factory automation and robotics company; she started her engineering career in June of 1979 as a Member of Technical Staff at AT&T Bell Laboratories. She holds both a Bachelor's and Master's Degree in Computer and Information Systems Engineering from the University of Illinois.

SPECIAL NOTE — ELECTION MEETING: Next year's officers will be elected at this meeting. Please make your nominations for Chapter officers to Ken Smolik at (708) 713-1455 ASAP.

Power Engineering Society

Fermi National Accelerator Laboratory Overflow Tour

(From March 13, 1993 Tour)

First Option: Contact Fermi Laboratory directly to add on to one of their Weekday Daily Tours or, to set up a guided tour for your group
Contact: Fermi Laboratory and Telephone: (708) 840-3351
IEEE Message Center (312) 236-4333

Second Option: Saturday Tour in September - October, 1993;
Date and Time to be announced in future Scanfax article
Tour size limited to 80 people



IEEE

Power Engineering Society

Commonwealth Edison - Power House

Family Tour

Date: Saturday, May 8, 1993
Time: Tour 10:00 AM to 10:45 PM (Exhibits)
Theater 11:00 AM to 11:45 PM (Power Generation)
Lunch 12:00 PM to 1:00 PM (Picnic Area or at Illinois Beach State Park - Nearby)
Reservations: Call (312) 236-4333 by Monday May 3, 1993
Theater Limit of 80 people

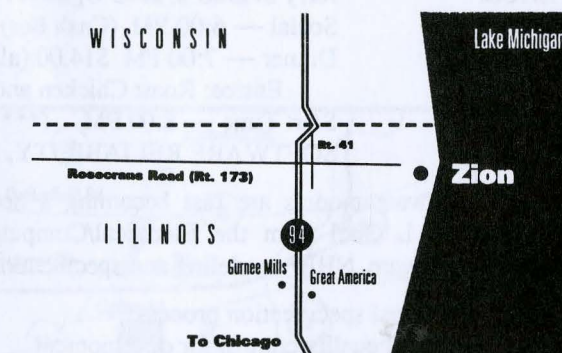
Exhibits: The Nature of Energy
The Sources and Forms of Energy
Energy Use Through Time
Energy in Transition

How to Get to the Power House

The Power House is located on the shores of Lake Michigan, a few miles north of Illinois Beach State Park in Zion, Illinois.

From Chicago: I-294/I-94 North, after last Illinois toll plaza, exit Rosecrans Road (Rt. 173), travel East to Sheridan Road, South to 25th Street (Shiloh Boulevard), East to The Power House (at the end of 25th Street).

From Milwaukee: I-94 South, exit Rt. 41 South to Rosecrans Road (Rt. 173), travel East to Sheridan Road, South to 25th Street (Shiloh Boulevard), East to The Power House (at the end of 25th Street).



The Power House

100 Shiloh Boulevard
Zion, Illinois 60099

The University of Illinois at Chicago will offer the following graduate-level courses through the Off-Campus Engineering Program the fall and spring semester of the 1993-94 academic year:

UIC The University of Illinois at Chicago

Fall 1993: August to December

ME 410	Automation and Robotics Applications
ME 521	Heat Conduction
ME 422	Heating, Ventilation, and Air-Conditioning*
ME 513	Principles and Design of Mobile Robots*
EECS 466	Advanced Computer Architecture*
EECS 586	Natural Language Processing*
EECS 420	Introduction to Microwave Engineering*
EECS 551	Optimal Control*

Spring 1994: January to July

ME 417	Intermediate Fluid Mechanics
ME 535	Theory of Vibrations
ME 524	Thermal Radiation*
ME 547	Advanced Computer-Aided Design*
EECS 460	Computer Algorithms
EECS 572	Distributed Software Engineering
EECS 417	Digital Signal Processing*
EECS 520	Electromagnetic Field Theory

*Live instruction at the Multi-University Center ONLY; other courses on videotape, supplemented by a minimum of four personal visits from the instructor, enrollment permitting.

Locations: The Multi-University Center, 1010 Jorie Boulevard, Oak Brook, Illinois
The Office of Statewide Programming at Mount Prospect, 300 West Golf Road, Suite 207, Mount Prospect, Illinois
The Office of Statewide Programming at Rockford, 1601 Parkview Avenue, Rockford, Illinois

Application and credentials must be received by June 25, 1993 for fall 1993 admission.
Contact the Off-Campus programs office at (312) 996-2311 for further details.

This schedule is subject to change without notice.

Congressional Fellow to Speak at the June Section Meeting

On June 8th, as part of our Chicago Section's Centennial Celebration, Dick Jaeger — an IEEE Fellow and former Division Director — will report on his experiences and observations while in Washington for one year as an IEEE Congressional Fellow for 1992. His views based on his experience inside the Halls of Congress should prove extremely interesting.

THE RELIABILITY, COMPUTER, AND SYSTEMS, MAN & CYBERNETICS SOCIETIES' CHICAGO CHAPTERS

ARE TO PLEASED TO OFFER YOU A SPECIAL IEEE VIDEO TAPE PRESENTATION

DATE: Thursday, May 6, 1993
PLACE: Jerry Sharko's, 2225 Ogden Ave, Lisle, IL (between Route 53 and Naperville Road at Western Ave)
TIME: Social — 6:00 PM (Cash Bar)
Dinner — 7:00 PM \$14.00 (all inclusive) (Reservations Required)
Entree: Roast Chicken and Beef (Table d'Hote)
VIDEO: Start Time — 8:00 PM (***) No Admission Charge (***)
TOPIC: SOFTWARE RELIABILITY, MODELING AND ASSESSMENT

Reliable software models are fast becoming a necessity in computer-reliant industries. This IEEE Video is presented by Professor A. L. Goel from the Electrical/Computer Engineering Department at Syracuse University. The tape describes computer software, NHPP modeling and specifications for software reliability. The featured segments for this event will be:

- The formal specification process
- Statistical quality control for development
- State-of-the-art application models, and
- Tradeoffs between testing, reliability, and release time

Please make advance dinner reservations with our office at (312) 236-4333.
For special directions or other information call Joe Feitler at (708) 505-9100, X277.



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
FOX VALLEY SUBSECTION



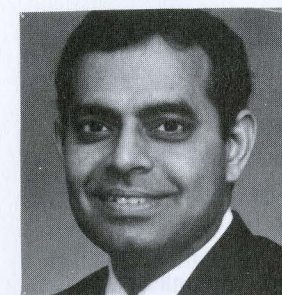
WITH
THE AMERICAN SOCIETY FOR QUALITY CONTROL
ST. CHARLES/FOX VALLEY SECTION 1208

MAY MEETING ANNOUNCEMENT

ACHIEVING ISO 9000 CERTIFICATION

Presented by Praveen Gupta of Quality Technology Company

Tuesday, May 25, 1993



Praveen Gupta

During the last 2 years the phrase "ISO 9000" has replaced "Baldrige Award" as the premier quality buzz word.

You might be asking —

What is ISO 9000?

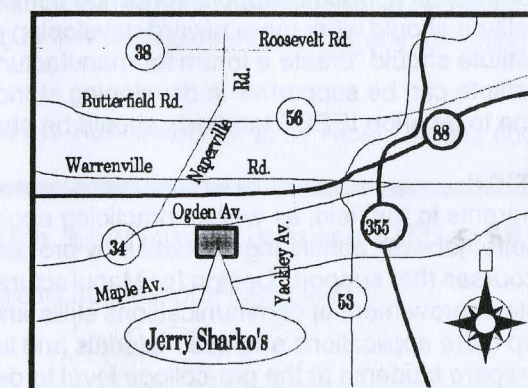
How does my company achieve ISO 9000 certification?

In addition to answering the above questions, I will discuss the impact of the ISO 9000 standards on the engineering community and how you can make the ISO 9000 standards a part of your overall quality system. I will present a Comprehensive Quality System (CQS) to assist you and your company in meeting the requirements of your customers. I will conclude my presentation with a step-by-step approach to achieve the ISO 9000 certification.

Praveen Gupta, a founding member of the consulting team at Quality Technology Company, holds an MSEE degree from Illinois Institute of Technology. He is both a Licensed Professional Engineer (PE) in Illinois, and a Certified Quality Engineer (CQE). He is Chairperson of the St. Charles Section of ASQC, Region 12 Counselor of ASQC Software Division, and Senior Member of ASQC and IEEE.

Praveen has taught various quality courses in several countries for Motorola University and College of Dupage. Praveen helps companies in the electronics industry implement TQM and obtain ISO 9000 certification. He has worked at Motorola, Inc., and AT&T Bell Laboratories in Product Development, Manufacturing, and Quality Assurance. He has authored several papers on testing, clean-room technology, and quality assurance.

Place: Jerry Sharko's
2225 Ogden Ave.
Lisle, IL 60532
Social: 6:00 PM / Cash Bar
Dinner: 7:00 PM / \$13.00
Speaker: 8:00 PM / Free
Reservations: Call (312) 236-4333
by Friday, May 21st
Attire: Casual



Report of the Institute meeting in Chicago

President Martha Sloan, General Manager John Powers and key members of their staff held their spring meeting in Chicago, helping us to initiate the centennial of the Chicago Section. Brief descriptions of the activities are below. Many of the initiatives that emerged as long range plans will be discussed at our Section Executive Committee meetings and at various programs throughout the year.

Honors Convocation

Several hundred members and Institute staff gathered at the Sheraton Chicago to honor newly elected fellows and 15 medalists. President Martha Sloan also described the events leading to the formation of the Chicago Section, and the events that followed from it for the succeeding 100 years. Her remarks will be published in the June Scanfax and distributed to Section officers and Chapters.

Robert Galvin of Motorola was inducted as an Honorary Member.

Each honoree responded with a brief review of the interaction with associates and the projects which led to the award. We will try to obtain copies of the descriptive booklet. Please leave a message at 708 576 8222 if interested.

CEO Breakfast

Executives of Chicago area businesses which employ IEEE engineers were invited to a breakfast meeting to discuss industry relations with President Martha Sloan, key members of the Institute staff, and officers of the Chicago Section. Twenty five guests from industry and academia joined with ten Institute staff.

They had been asked to consider three questions:

- Assess the IEEE's contribution to making employees more effective.
- What can the IEEE do to help enhance global competitiveness, and improve the manufacture of goods.
- What can the Institute add to its programs to enhance continuing education and pre-college (K-12) curricula.

They generated a list of needs, interests and comments, grouped below as Membership, Societies, Standards, and Education. An update meeting has been discussed, to take place in early October 1993.

Ask your CEO to call 708 576 8222 for an invitation or to comment. Or, take the initiative yourself.

MEMBERSHIP:

- Mid-management is obligated to learn more about their technology than what is going on in its own department.
- Individuals must take responsibility for staying current in their field.
- Management is hard pressed to control money, employees see increasing pressures at home and work.
- Companies are too hard pressed to send employees to meetings and conferences.
- Members are reticent to take advantage of networking opportunities offered by the Institute. Incentives are needed.
- IEEE meetings should be geared toward attracting new members. Women members are increasing in number.
- Membership helps businesses lower costs and increase competitive advantages by keeping members informed.
- IEEE membership connects individuals to the broader world of the advancing electrotechnology.

SOCIETIES

- Societies should promote new entrants to their fields, emphasizing relevance to business and career.
- A stronger link is needed between chapters and their parent societies - as strong as the local linkages.
- The IEEE should have a Manufacturing Society.

STANDARDS

- IEEE Standards activities support worldwide compatibility and thus support global competitiveness.
- The Institute should work more toward developing global standards.
- The Institute should "create a forum for manufacturers to discuss strategies for improving design and manufacture."
- The Institute can be supportive in developing standards applied in the European community.
- The time to develop IEEE Standards should be shortened.

EDUCATION

- New entrants to the field, as well as practicing engineers, can benefit from continuing education.
- Do a better job with continuing education by providing more offerings at the local level.
- Offer courses that support "Design for Manufacturability" and "Design for the Environment."
- Promote improvement of communications skills and the reliable and timely meeting of customer needs.
- Develop more applications oriented materials and tutorials and bring them to the local areas.
- Help prepare students at the pre-college level to determine career options and strategies.
- Strive to improve technological literacy of the workforce, particularly in the inner cities.

STATE GOVERNMENTAL ACTIVITIES COMMITTEE

The IEEE Chicago Section By-Laws were recently upgraded and include establishment of the State Governmental Activities Committee. This committee is a voting position on the Section Executive Committee. Its function is to track legislation at the State level, and will maintain and publish a list of State Senators and Representatives, their voting positions, and the status of legislation presently in consideration that relates to IEEE interests. Another concern of the committee is the introduction of Tort and Liability Reforms.

The committee is presently chaired by Bert Orszula. Make use of him!

ENHANCE YOUR CAREER, ADOPT A SCHOOL

Last month's Scanfax noted the distribution of members, society affiliations, and the subsection of mail addresses. The objective was to identify groupings for opportunities for technology enrichment, networking for projects and jobs.

To continue this objective, below is a list of 30 local schools identified by IEEE as having curricula leading to certificates and degrees in areas of IEEE interest. Please consider spending some time at one near you. It will help the students and faculty learn what your engineering is all about, and will boost your career. We are developing a bulletin of contacts by areas of interest. Please call 312 236 IEEE (4333) and ask for the "Adopt a School" bulletin.

The IEEE Educational Activities Board (EAB) and the Regional Activities Board (RAB) met in Chicago last February.

A summary of their discussions and actions is being prepared for presentation to the May meeting of the Chicago Section. It will be available for distribution. One of their big issues was continuing education. It was noted that our technologies advances in three year gulps. One member suggested that gasps or grasps might be a better key word. Your present technology may be ready for a digestive supplement, and that is the principal proposed utility of the Adopt a School plan.

The schools are: Aurora, Bradley, Chicago City, Chicago State (tba), Chicago Theological, College of Lake County (tba), College of Du Page (tba), College of Du Page BPI (tba), Concordia (tba), Daley, DePaul, DeVry Chicago, DeVry Addison, Elmhurst, Governor State, Harold Washington, Harper, IIT Chicago, IIT Rice, Illinois Benedictine, John Marshall, Joliet, Kendall, Kennedy King, Lake Forest, Loyola, Moody, North Central, North Park, Northeastern, Northwestern, Oakton, Olive Harvey, Prairie State, Roosevelt Chicago, Roosevelt AH (tba), Rush Medical, Triton, Univ of IL Chicago, Univ of Chicago, Wheaton (tba), Wright.

If you are a faculty member of one of these schools, and want to discuss what IEEE can do for you, call the IEEE Chicago Business Office and ask for the brochure. It automatically gets you invited. If you are faculty or student or member with access to the Internet, you can get the brochure by sending a message to sec.chicago@ieee.org

THE CHICAGO SECTION CENTENNIAL

The Chicago Section Centennial will be October 9, joined with the Columbian Exposition Centennial at the Museum of Science and Industry. To help recognize this occasion, volunteer by calling the Chicago Section Buiness office. They will direct you to the steering committee.

NATIONAL ENGINEER'S WEEK

At least 1400 visitors enjoyed the labors of 30 steering committee members who represented at least 25 professional societies, at the ninth annual DuPage Area Engineers Week Program at IIT Rice Campus last February 20. Many teachers and parents made it possible for their charges to search out materials and information about aspects of engineering not otherwise available. Professional Societies, businesses, national laboratories, educational institutions and community groups joined to communicate what engineering is & what engineers do, thereby attracting young people to careers in technology.

To comment, or become involved in next year's program, please call Ruth Sweetser at IIT Rice, 708 682 6000. A partial list of program credits and comments is available.

****Notification of Change for Chicago Section Business Office****

The Chicago Section of the IEEE has changed its Business Office as follows:

Chicago Section IEEE
Suite 508
30 N. Michigan Ave.
Chicago, Illinois 60602

Telephone Number 312.236.IEEE

IEEE VIDEO TELECONFERENCES

A program to bring this material to our members and to enhance the business prospects of the IEEE Teleconference program is in the final stages of preparation. The program grew out of our experiences over the past year. Substantial credit is due to the dozen members who took the time to express their interest and comment on the programs and the issues, and to the Institute staff with whom the concerns and the possibilities were discussed, especially with regard to their consideration of alternate marketing styles for groups of members such as we. The program would not have been possible at all if the staff at the Business and Professional Institute of the College of DuPage had not taken the time to consider the benefits to the community they serve.

Some of the difficulties with "live" downlink presentations were the mid-morning hour, the cost to the downlink institution for classroom space, the cost for the downlink itself, the IEEE fee for participation, and the need to promote company and individual marketing so that the cost of preparation of the programs would be profitable. Our program hopes to encourage business and individual participation.

We propose to make segments the tapes, and similarly with last years tapes, available to our section members on a contractual basis, with fees to cover handling. The contract is necessary because the tapes are copyrighted and not locally owned. Interested individuals not presently IEEE members will be supplied a membership application. The program pamphlet includes descriptions of the available programs of last year, and announcements for the coming year. Other possibilities include local discussion groups on the topics of the tapes.

For a copy of the pamphlet, call the IEEE Chicago Section Business office 312 236 IEEE (4333) and ask for the Teleconference bulletin.

THE COMPUTER SOCIETY CHAPTER OF THE CHICAGO SECTION

DATE: Wednesday, May 12, 1993
PLACE: Wilton Manor, Main Street (Schmale Road) and Geneva Road, Wheaton, IL
TIME: 6:00 PM — Social Hour (Cash Bar)
6:30 PM — Dinner (PRIOR RESERVATIONS REQUIRED)
7:30 PM — *ARCNETplus: A High-Performance Multi-Speed Local Area Network (LAN)* (NO CHARGE)
SPEAKER: George M. Thomas, President, Contemporary Control Systems, Inc. (CCSI)

ABSTRACT

Over 4 million ARCNET nodes have been installed in industry which makes this technology one of the most popular LAN alternatives. However, since ARCNET operates at 2.5 Mb/seconds, it is perceived to be a lower performing network than either Ethernet or Token-Ring. With the aid of the newly introduced ARCNETplus, these users can upgrade to a 20 Mb/second LAN, yet still remain compatible with their existing ARCNET nodes. This is due to the unique dual-speed capability of ARCNETplus.

ABOUT OUR SPEAKER

George Thomas is the President of CCSI which manufactures industrial control products based on ARCNET technology. He received his BSEE and MSEE from the Illinois Institute of Technology; currently, he is a director of the ARCNET Trade Association.

Please make your reservations no later than May 10th at (312) 236-4333

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IEEE ELECTRON DEVICES SOCIETY

CHMT SOCIETY

JOINT MEETING OF THE ELECTRON DEVICES SOCIETY, THE NORTHWEST SUBSECTION AND CHMT SOCIETY

Wednesday, May 5, 1993

"NEXT GENERATION SEMICONDUCTOR MATERIALS FOR HIGH PERFORMANCE OPTOELECTRONIC DEVICES"

by Dr. Manijeh Razeghi
Northwestern University

Northwest
Subsection

There is a growing interest in utilizing semiconductor direct energy gap heterojunctions, quantum wells and superlattices for photonic and electronic devices for high speed interchip and intrachip communications for silicon-based systems. It is important to determine whether III-V semiconductor multilayers and Si processing technologies are mutually compatible to enable the fabrication of reliable optical and electrical devices on Si substrates. The use of such techniques as MOVPE, CBE and Gas MBE for this purpose will be discussed.

Dr. Manijeh Razeghi is Walter P. Murphy Professor of Electrical Engineering and Computer Science and the Director of the Center for Quantum Devices at Northwestern University. Before joining the Northwestern faculty in 1991, she was Head of the Exploratory Materials Laboratory at Thomson-CSF, Orsay, France. She has authored more than 350 technical publications including the book The MOCVD Challenge.

Register by calling the IEEE Office By May 3, (312) 236-4333 Reservations are required.
Your attendance will be confirmed.

Meeting Location:
The Motorola Center,
Algonquin Rd (Route 62),
Schaumburg, IL

Time:
7:00 p.m.
(Coffee and rolls will
be available).

Enter at Gate A, park
in lot close to Number
13, enter door at the
location of Number 13.

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

Topics: Election of Officers.

Applications of the Finite Difference Time Domain
Method in Electromagnetism

Date: Thursday May 27, 1993

Speaker: Dr. Fady Harfoush - Fermi National Accelerator
Laboratory

ABSTRACT: The use of the Finite Difference Time Domain (FDTD) method has expanded greatly over the last few years and continues to grow rapidly. New areas of applications include cross coupling in microwave integrated circuit analysis, microstrip antenna analysis, nonlinear optical phenomena in dielectric waveguides, and heat deposition patterns in hyperthermia cancer treatment. The talk will start with a brief presentation of the method, followed by a quick overview of some old applications, and end with a discussion of on-going and emerging new areas of potential applications.

PLACE: El Torito Restaurant
525 W. Roosevelt Blvd.
Lombard, IL

TIME: Social 6:00 PM
Dinner 6:30 PM
Meeting 7:30 PM

From north or south, exit I355 at Roosevelt Rd. (Ill. 38) Travel east 1/2 mile. Restaurant is on the right.

Call the IEEE message center 312-236-4333 by noon Tuesday May 25, 1993 to make your reservation. The dinner is optional. Entrees available from the full menu and billed individually.

IMPORTANT! THE NOMINATION AND ELECTION OF NEW OFFICERS WILL BE HELD AT THIS MEETING. CONSIDER BECOMING AN OFFICER. BE SURE TO ATTEND AND CAST YOUR VOTE.

IEEE Recommended Practice for Electric Systems in Health Care Facilities

Endorsed by the IEEE National Standards Board

IEEE Std 602-1986, Recommended Practice for Electrical Systems in Healthcare Facilities, commonly known as the IEEE White Book, is published by the Institute of Electrical and Electronic Engineers to provide a recommended practice to aid in the design of electrical systems for healthcare facilities. This seminar is presented by two nationally renowned experts in the area of healthcare electrical system design and installation.

Topic areas covered will include:

- o Hospital Electrical Power Distribution Systems
- o Overcurrent and Ground Fault Protection
- o Standby and Emergency Power Systems
- o Applicable Codes and Standards for Healthcare Facilities,
- o Electrical Safety and the Physiological Basis for Electric Shock.

Featured Speakers

Hugh O. Nash, Jr., PE

Vice President, Healthcare
Smith, Seckman & Reid

Chairman, *IEEE White Book* Working Group
NFPA 70/ANSI C2 *National Electrical Code*
and NFPA 99 *Healthcare Facilities*
Technical Committee Representative

Gary P. Slack, PE, CCE

President,
Healthcare Engineering Consultants

Panel 17 Article 517 Representative
NFPA 70/ANSI C2 *National Electrical Code*
NFPA 99 *Healthcare Facilities*
AHA Technical Committee Representative

Saturday, May 15, 1993

NIPSCO Industrial Complex in Merrillville, Indiana

8:00 am Registration
8:30 am - 5:00 pm Technical Presentation
5:15 pm - 6:30 pm Reception at Raddison Hotel

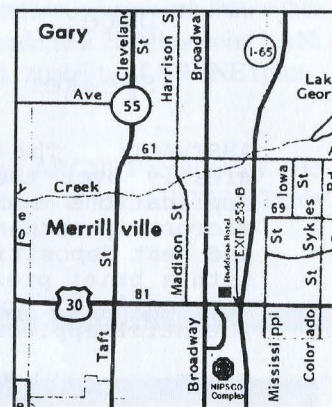
\$150.00 Member IEEE or Affiliated Groups
\$175.00 Non-Member IEEE or Bio-Med Societies

Registration Fee Includes :

*Complimentary Copy of the IEEE White Book
Supplemental Handouts and course materials
Lunch at Radisson Hotel, Merrillville*

**TO REGISTER CALL
(219) 647-5643**

NIPSCO
Industries Complex
801 E. 86th Ave
Merrillville, IN 46410
(Southwest corner
of U.S. 30 and I-65
behind Century Mall)



Use I-65 Exit 253B

Presented by the Calumet Section IEEE in Association with:

Chicago Section IEEE Engineering in Medicine and Biology Society
Chicago Section IEEE Power Engineering and Industrial Applications Societies
Midwest Bio-Medical Society and the Indiana Bio-Medical Society
The American Society for Hospital Engineering of the American Hospital Association