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Official Publication of Chicago Section • Institute of Electrical & Electronics Engineers • MARCH 1993



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 April SCANFAX is February 25, 1993

March 9 Tuesday	Chicago Section	Executive Committee	Motorola Center 1295 East Algonquin Rd. Schaumburg, Il.	Meeting: 7:15 PM
March 10 Wednesday	Power Engineering Society	Future of Gas Insulated Switchgear	Chicago Bar Association 321 S. Plymouth Ct. Chicago, Il.	Social: 11:30AM Lunch: 12:00noon Meeting: 12:30PM
March 10 Wednesday	Communications Society	Internetworking Through Bridges & Routers	Sharko's Restaurant 2225 Ogden Ave. Lisle, Il.	Social: 6:00PM Dinner: 7:00PM Meeting: 8:00PM
March 13 Saturday	Power Engineering Society	Tour of Fermi National Accelerator Laboratory	Fermi National Accelerator Lab Wilson Hall Batavia, Il.	Tour: 10:00AM Lunch: optional
March 23 Tuesday	Fox Valley Subsection/ Society of Automotive Engineers	Rationale for Increased National Interest in Hybrid Electric Vehicles	Itasca Country Club 400 E. Orchard St. Itasca, Il.	Social: 5:30PM Dinner: 6:00PM Meeting: 7:00PM
March 24 Wednesday	Antennas & Propagation/ Microwave Theory & Techniques Society	Finite Element Methods in Electromagnetism: An Overview	Hewlett-Packard 5201 Tollview Dr. Rolling Meadows, Il.	Social: 5:30PM Buffet: 6:00PM Meeting: 7:00PM
March 25 Thursday	IEEE Videoconference	Chaos and Fractals	Location To Be Determined	Starting: 11:00AM Call (708)576-8222 or (708)963-3828 for Details
March 27 Saturday	CAPAMA/Computer/ Communications Societies/ MWCEESA	9th International Conference on Science and Technology	Motorola Center 1295 E Algonquin Rd. Schaumburg, Il.	Starting: 8:30AM See Announcement for Details

The IEEE Chicago Section just learned that our Past Section Chairman George Stout passed away on February 10th, 1993 following a long illness. All of us will miss George who served on many local IEEE committees during the past years (such as his role as Region 4's Arrangements Committee Chair for the March 1992 semiannual meeting). We also want to convey our deepest sympathy to his wife Margaret who served as his main support during this difficult illness, as well as to his family.

Perhaps some of you may want to send a contribution in George's memory to the American Cancer Society.

Joe Feitler
Joe Feitler

Associate Editor of SCANFAX

(also George's immediate predecessor as Chicago Section Chairman)

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In May, Illinois Institute of Technology is offering two intensive short courses for electrical and computer engineers at its Daniel F. and Ada L. Rice Campus in Wheaton. Both four-day courses are designed for the working professional who needs to get up to speed in these rapidly changing specialties.

- **"Computer Vision and Neural Nets,"** taught by Jezekiel Ben-Arie and Henry Stark from May 18-21, 1993.
- **"Mobile Cellular Communications,"** taught by Guillermo Atkin from May 24-27, 1993.

The complete fee for each course, including materials and certificate of completion, is \$996. Each short course is worth two credit hours for degree-seeking students.

Call Faith Kancauski at 312 567 3400 for registration forms or more information.

Electrical and Computer Engineering Department

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
APR	FEB 25	MAR 15
MAY	MAR 25	APR 15
JUNE	APR 28	MAY 15

THESE ARE FIRM DEADLINES FOR ADS AND COPY!!!

LETTER TO CHICAGO SECTION

In September, a Consumer Electronics Society Chapter was first listed. Now Systems, Man & Cybernetics is the 16th Chicago Chapter. Both groups had major conferences in Chicago last year.

We welcome the new officers for CH&MT, Power Electronics, Nuclear & Plasma Sciences.

SPECIAL EVENTS COMMITTEE

Please consider joining the Special Events Committee to make the April 24 Recognition Dinner special.

Bob Camillone



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
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MARCH MEETING ANNOUNCEMENT

RATIONALE FOR INCREASED NATIONAL INTEREST IN HYBRID ELECTRIC VEHICLES

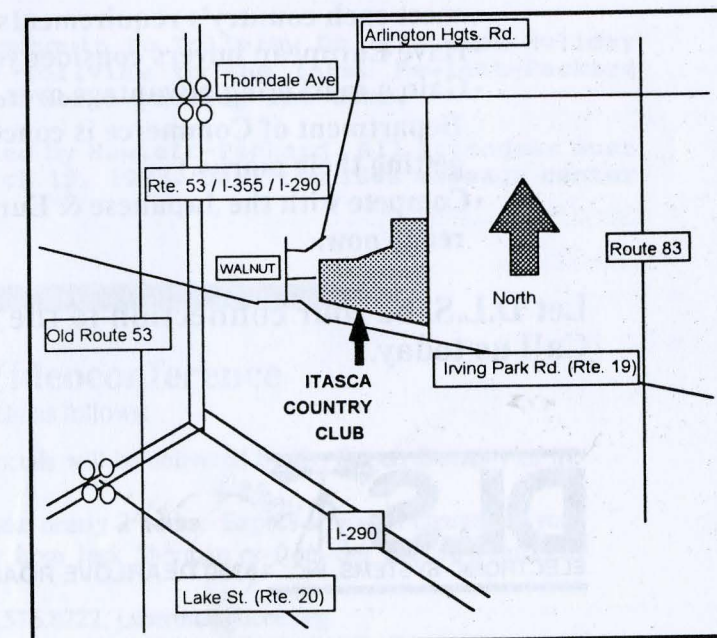
Presented by Dr. Larry Oswald of General Motors Corporation

Tuesday, March 23, 1993

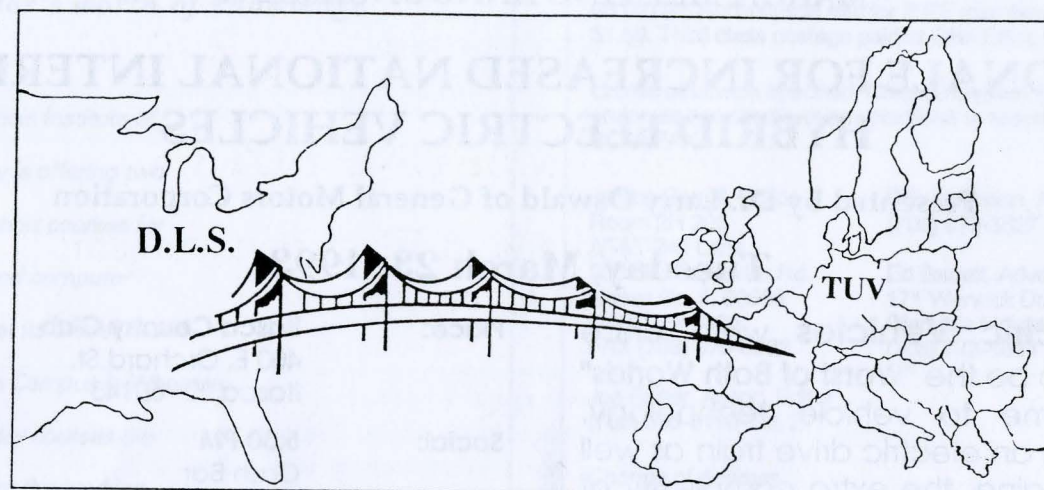
Hybrid Electric Vehicles were once considered to be the **"Worst of Both Worlds"** when it came to vehicle technology. Incorporating an electric drive train as well as a heat engine, the extra complexity of HEVs can outweigh its potential benefits. However, increased emphasis on improved fuel economy and very low emissions has caused **major auto makers to renew their interest in HEVs.** Uniting the latest technology from electric vehicles with advanced heat engines in light weight bodies, current HEVs now show evidence of being the **"Best of Both Worlds,"** maintaining current levels of vehicle performance while significantly reducing fuel consumption and environmental impacts.

Dr. Larry Oswald graduated from the University of Michigan in 1971 with a Ph.D. in Mechanical Engineering. Joining General Motors after his graduation, he has worked on most areas of vehicle engineering: aerodynamics, engine mechanics, body and structure design, low rolling resistance tire mechanics, and active noise control. He began working on HEVs early in 1989, and in January, 1991, was named Hybrid Vehicle Program Manager, the position he holds today.

- Place:** Itasca Country Club
400 E. Orchard St.
Itasca, IL 60143
- Social:** 5:30 PM
Cash Bar
- Dinner:** 6:00 PM
IEEE/SAE Members - \$15.00
Non members/Guests - \$17.00
Students - \$7.50
- Coffee Talk:** 7:00 PM
"Low-Loss Super Conducting Bearings and High Efficiency Flywheels"
Presented by John R. Hall of Argonne National Laboratory
- Featured Talk:** 7:30 PM
Dr. Larry Oswald on Hybrid Electric Vehicles
- Reservations:** Call (708) 963-3828
by Friday, March 19th
- Information:** David Schumacher
Vice Chairman of Fox Valley Subsection
(708) 224-6471



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IEEE JOINT CHICAGO CHAPTER of the ANTENNAS AND PROPAGATION SOCIETY, and MICROWAVE THEORY AND TECHNIQUES SOCIETY

MARCH 1993 MEETING NOTICE

Finite Element Methods in Electromagnetism: An Overview

Presented by

DR. JEAN-FRANCOIS OSTIGUY
Fermi National Accelerator Laboratory

During the course of the last two decades, finite element based codes have emerged as preferred tools in computational electromagnetics. The mathematical foundations of the finite element method (including the method of moments) will be briefly reviewed. Limitations of existing codes will be discussed. An effort will be made to put the emphasis on the specific problems associated with the design and analysis of high frequency devices and also structures of relevance to accelerator technology.

Dr. Jean-Francois Ostiguy has been with Fermi National Accelerator Laboratory since 1989. He is presently an engineer in the Accelerator Physics Department. From 1987 to 1989 he was with KMS Fusion in Ann Arbor, MI and was principally involved in the design of magnetic wigglers and undulators. Dr. Ostiguy obtained his Ph.D. in Electrical Engineering from McGill University in Montreal, Canada. While at McGill he was also associated with the Hydro-Quebec Research Institute and was involved in electric and magnetic field calculations for various power systems applications.

DATE:	Wednesday March 24, 1993	TIME: Social	5:30 PM
PLACE:	Hewlett-Packard Co.	Buffet	6:00 PM
	5201 Tollview Dr.	Meeting	7:00 PM
	Rolling Meadows, IL		

Exit Rt. 53 at Algonquin Rd. East on Algonquin to Tollview Dr. (Between Holiday Inn and Mobil gas station.) Right on Tollview to the first Hewlett-Packard entrance (on right). Enter building from North parking lot door.

Complimentary finger-food buffet is hosted by Hewlett-Packard. All attendees must make reservations by noon, on Friday March 19, 1993. Call the IEEE message center 708-963-3828 to make your reservation.

March IEEE Videoconference

The first of several IEEE Videoconferences will be held as follows:

- March 25, 1993 a presentation on Chaos and Fractals will be delivered by Dr. Robert Devaney of the Boston University.

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 March.

Coordinator for Chicago Section: Jack Sherman, 708.576.8222, j.sherman@ieee.org

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April 27-28, 1993

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**April 29-30, 1993
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August 12-13, 1993

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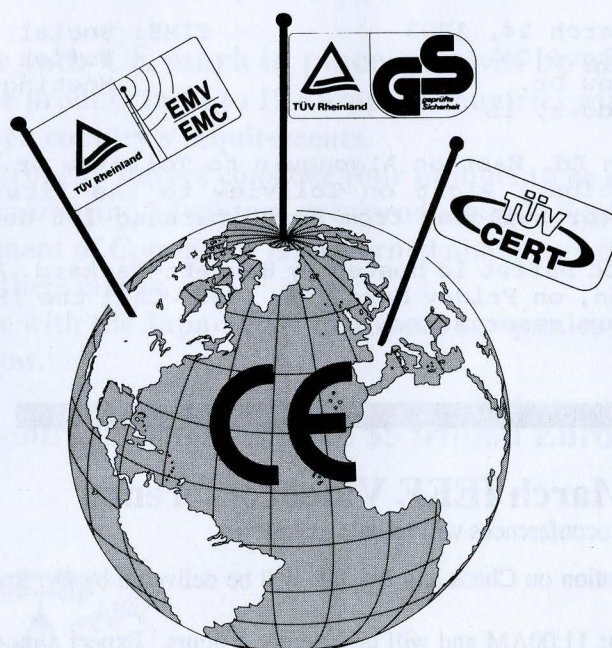
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Power Engineering Society

Fermi National Accelerator Laboratory Tour

Date: Saturday, March 13, 1993

Time: Tour 10:00 AM to 12:00 PM

Place: Fermi National Accelerator Laboratory
Wilson Hall
Batavia, IL

Reservations: Call (708) 963-3828 by Monday March 8, 1993

Lunch: Cafeteria is available following tour, \$3 to \$5 per person

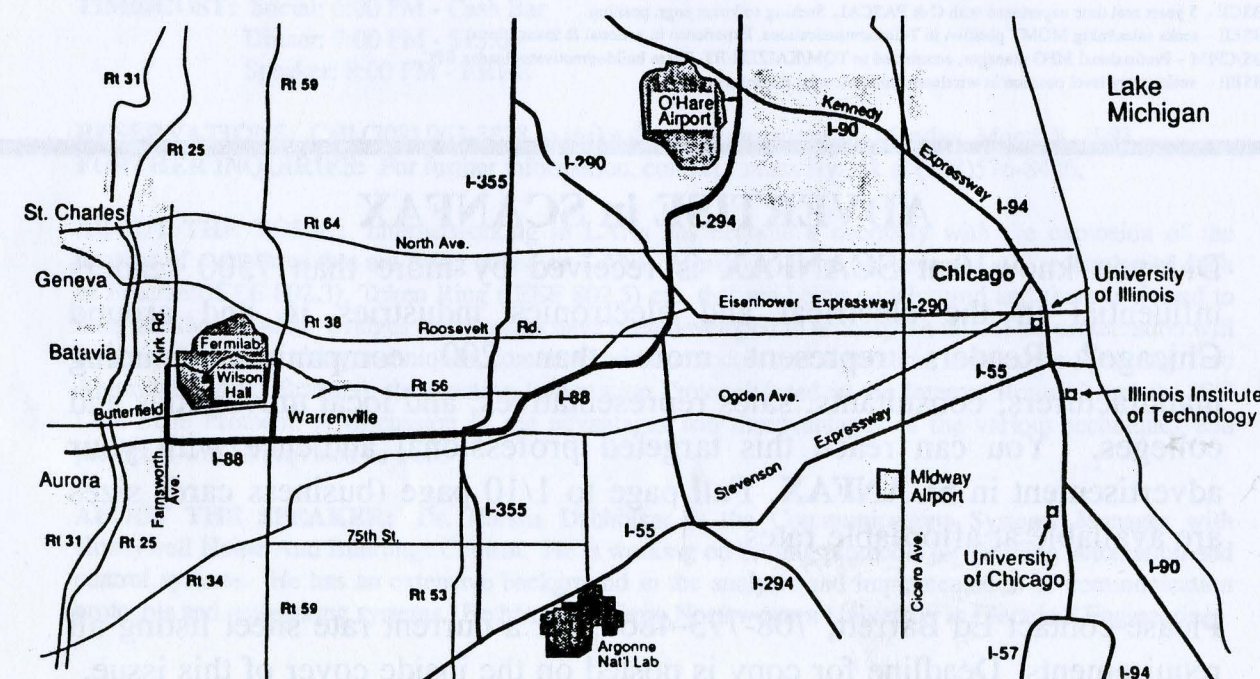
Fermi National Accelerator Laboratory, popularly known as Fermilab, is operated for the U.S. Department of Energy (DOE) by Universities Research Association, Inc., a consortium of major universities in the United States and Canada.

Fermilab's mission is to research the make up of the universe, concentrating on finding the ultimate building blocks of nature and understanding the forces acting between them.

Our special guided tour begins in Wilson Hall and consists of an orientation talk and a slide presentation, followed by the opportunity to see the pre-accelerator, the components in the linear accelerator gallery and the main control room. The tour then moves to the fifteenth floor for a panoramic view of the laboratory site.

After the tour, visitors are welcome to drive around the 680 acre site to view the distinctive architecture and see the buffalo and waterfowl.

Due to the special nature of the tour, Fermilab has requested that visitors be at least of high school age.



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; find publication information on page 2 herein. 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 (____) _____

Instructions

To better serve our membership, each submission must be complete and adhere to the following:

1. Identify educational qualifications, position being sought, professional experience, and pertinent qualifications.
2. Use industry standard acronyms and abbreviations.
3. Limit your text to the 100 spaces provided.

[illegible]

The IEEE and its Chicago Section waive any responsibility in determining the credibility, accuracy, or qualifications of applicants or employers.
Mail 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 provides a free placement service for its *unemployed* members of Member Grade or above. If you want additional information about the applicants listed below, contact our section's business office.

(If marked "confidential", our office will inform this applicant about the prospective employer's inquiry).

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

- 303 BSEE – 7 years in power distribuutin for utilities and oil refineries, PLC programming.
304 BASEET – Electrical Technician. PC skills: C, PASCAL, BASIC.
305 BSEE – Extensive lab Experience in Hybrid (Thick and Thin Films) circuits and semiconductor fab. and general test engr.
306 BSCE – 5 years real time experience with C & PASCAL. Seeking software engr. position.
307 BSEE – seeks sales/mktg MGMT position in Telecommunications. Experience in national & international.
308 BS/CPIM – Professional MFG manager, committed to TQM/KAIZEN/JIT. Team builder/motivator/leader. SPC..
309 BSEE – seeks entry level position in wireless communication Engineering.

ADVERTISE in SCANFAX

Did you know that **SCANFAX** is received by more than 7500 readers influential in the electrical and electronics industries in and around Chicago? Readers represent more than 200 companies including manufacturers, consultants, sales representatives, and local universities and colleges. You can reach this targeted professional audience with your advertisement in **SCANFAX**. Full page to 1/10 page (business card) sizes are available at affordable rates.

Please contact Ed Barrett, 708-773-4864, for a current rate sheet listing all requirements. Deadline for copy is posted on the inside cover of this issue.

NOMINATING COMMITTEE REPORT

The Chicago Section's Nominating Committee – headed by John Truitt – has completed the proposed slate of officers for the next Section Executive Committee. The term of the office will be July 1, 1993 through June 30, 1994. The following are the proposed candidates:

Position	Name
Chairman	Len Cohen
Vice-Chairman	Ed Capouch
Treasurer	Jack Sherman
Secretary	Tom Jurgens
Member Services	Mary Leatherman
Publications	Jim Carroll
Professional Activities	John Waters
Conferences	Frank Heffley
Program	Bob Camillone
Student Activities	Mary Hart
Finance	Don Reynolds
Special Events	Frank Lakowski
Awards	Carl Kannewurf

The Election Ballot for the Executive Committee will be included in the April 1993 issue of SCANFAX.

Meeting of the IEEE Communications Society (Chicago Chapter)

DATE: Wednesday, March, 10, 1993

GUEST SPEAKER: Dr. Harsha Dabholkar, Honeywell

TOPIC: Internetworking Through Bridges & Routers

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 (708) 963-3828 to make dinner reservations by Monday, March 8, 1993

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

ABOUT THE TOPIC: Internetworking in LANs has become a necessity with the explosion of the number of computers that are being added on LANs. Moreover, there are several LAN technologies such as Ethernet(IEEE 802.3), Token Ring (IEEE 802.5) etc. that are being widely used and there is a need to integrate these LANs. Bridges and Routers have been developed to accomplish this. This presentation will be about Internetworking techniques, communication protocols and algorithms such as the Spanning Tree Algorithm (MAC Bridges), the Routing Information Protocol (used in the Internet Routers) and the ISO Link State Protocol. A discussion of the advantages and disadvantages of the various techniques and protocols will be provided as well.

ABOUT THE SPEAKER: Dr. Harsha Dabholkar is the Communications Systems Manager with Honeywell Home And Buildings Control. He is working on routing protocols for building automation and control systems. He has an extensive background in the analysis and implementation of communication protocols and networking systems. He has a PhD from Northwestern University in Electrical Engineering.

•••• PLEASE POST - INVITE YOUR FRIENDS AND ASSOCIATES ••••

THE 9th INTERNATIONAL CONFERENCE ON ADVANCED SCIENCE AND TECHNOLOGY

DATE: SATURDAY, MARCH 27, 1993
PLACE: MOTOROLA, INC. (HOST)
THE GALVIN CENTER, 1295 East Algonquin Road
Schumburg, Illinois 60196-1097
TIME: 08:30 A.M. - Registration & Breakfast
09:00 A.M. - MOTOROLA MUSEUM TOUR
09:30 A.M. - KEYNOTE ADDRESSES
Mr. Les Shroyer, Corporate VP & CIO, Motorola
Dr. H. T. Kung, Gordon McKay Professor, Harvard University
11:15 A.M. - Tutorials and Concurrent Sessions
12:45 P.M. - Lunch in Atrium and Cafe
01:45 P.M. - Concurrent Sessions and Workshops
05:00 P.M. - Conclusion of Conference

REGISTRATION FEE (including breakfast and lunch):
\$10.00 MEMBER OF SPONSORS; \$20.00 NON-MEMBER; \$5.00 STUDENTS

SPONSORS: Chinese Academic and Professional Association in Mid-America (CAPAMA)
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University of Illinois at Chicago Chicago State University
Science Division/CCNAA National Harvest Computer System (Hong Kong)
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INFORMATION MANAGEMENT

More than forty papers in the areas of object-oriented technologies, parallel and distribution systems, computer architecture, computer network, communications software, telecommunication technologies, switching software architectures, environmental issues, and information system development will be presented.

TUTORIALS: Software Engineering, Computer Network, and Telecommunications

WORKSHOPS: Environmental Protection, Information Management, and Job Interview Techniques

BANQUET: 06:30 P.M. - CASH BAR & HORS D'OEUVRES
07:00 P.M. - DINNER & ENTERTAINMENT
(Ticket price will be announced later!)

GENERAL INFORMATION MAY BE OBTAINED FROM:

(708) 505-9100, x277	Mr. Joe Feitler, IEEE Computer Society
(708) 576-8426	Mr. Janusz Hyziak, IEEE Communication Society
(708) 224-4511	Dr. Weider Yu, Program Chair
(312) 996-0675	Prof. David Yang, C&C Theme Coordinator
(312) 995-4404	Dr. Jesse Wang, CAPAMA President
(708) 850-6461	Dr. Shem-Mong Chou, CAPAMA VP

POWER ENGINEERING SOCIETY



IEEE

SPEAKER: Mr Rosh Roshanlal
Manager, High Voltage Marketing
Schneider North America/ Square D

TOPIC: Future of Gas Insulated Switchgear

ABSTRACT: Worldwide demand of electric utilities for reliable compact substations offering maximum availability has resulted in increased use of gas insulated switchgear both for high voltage and extra high voltage applications. GIS also offers other advantages such as friendly environment, improved safety, better EMF performance, reduced installation cost, better life cycle cost, etc. The future of this technology looks bright, partly due to leading manufacturers reducing costs by incorporating modular designs, self-diagnostics, new current and voltage sensors, etc.

BACKGROUND: Mr. Roshanlal has a BS Degree in Electrical Engineering and a Master's Degree in Power Systems Engineering. He has been with Merlin Gerin (France) for over 24 years, and has been involved with engineering, marketing and sales, and strategic planning of high voltage and extra-high voltage power equipment. While in the marketing and sales position, he was responsible for the marketing of EHV products in the US, Canada, Australia, New Zealand, India, Brazil, and China. Mr. Roshanlal is a member of the IEEE and CIGRE, and has actively participated in UHV conferences in Brazil. Presently he is in charge of marketing and sales for Square D Clearwater Products and Merlin Gerin Products for Schneider North America. In addition to this, he has the responsibility of strategic co-ordination for EHV global business unit.

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

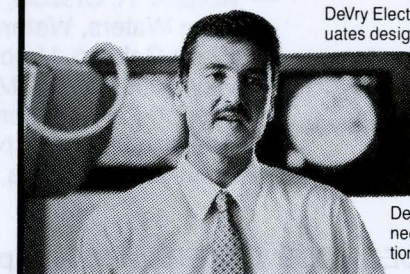
DATE/TIME: March 10, 1993
11:30 Social, 12:00 Lunch,
12:30 Presentation

RESERVATIONS MUST BE MADE BY MONDAY
3/08/93, 12:00 PM. RESERVATIONS MAY
BE MADE BY CALLING THE IEEE CHICAGO
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PLEASE LEAVE NAME(S) AND COMPANY NAME(S)
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OUR IEEE CHICAGO SECTION'S 100TH ANNIVERSARY YEAR

IEEE RECOGNITION DINNER — 1993

DATE : SATURDAY, APRIL 24 1993
PLACE : AVALON BANQUETS
1905 EAST HIGGINS ROAD (AT BUSSE ROAD),
ELK GROVE VILLAGE, 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 THE CHICAGO SECTION

1993 IEEE Fellow Award

Dr. Miron Abramovici — AT&T Bell Laboratories

1993 Student Awards

1993 Student Advisor Awards

(Names to be announced)

1993 Section Awards to Industry

Elite Electronic Engineering Company
M. Gottlieb Associates, Inc.
Matsushita Television Company
Methode Electronics
Northrop Electronics Division

A Brief Tribute to our Late Recognition Dinner Chairman, Henry P. Korman

THE SOCIAL SCENE

ENTERTAINMENT Joel "JB" Brash — magic, comedy, fun, etc.

DANCING Frank "K" and Company — a tuneful orchestra, with
smooth rhythms to suit your personal dancing pleasure

1993 RECOGNITION DINNER COMMITTEE MEMBERS:

Chairman	— Henry P. Korman (May 11, 1924 – October 24, 1992)
Acting Chairman	— Frank Lakowski, United Chemi-Con Inc.
Secretary	— Norbert R. Orszula, PE
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 5072, River Forest, IL 60305 (no later than April 16, 1993)
- by phone — Joe Feitler at ISC: (708) 505-9100, x277 (no later than April 20, 1993)
- 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 16, 1993