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



TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations please call IEEE Office at (708) 963-3828 before the stated deadline
Copy Deadline for April SCANFAX is February 25, 1992

March 10 Tuesday	Chicago Section	Executive Committee	Contemporary Controls 2500 Wisconsin Downers Grove, IL.	Meeting: 7:15 PM
March 11 Wednesday	Power Engineering Society	New Clean Air Act: Solutions to Environmental Compliance	Chicago Bar Association 321 S. Plymouth Court Chicago, IL.	Social: 11:30 AM Lunch: 12:00 noon Meeting: 12:30 PM
March 11 Wednesday	IAS/IES	ISO 9000: Changing World Of Quality Assurance	Underwriters Laboratories Inc. 333 Pfingsten Road Northbrook, IL.	Social: 5:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
March 12 Thursday	LEOS	Silicon Based Optical Integrated Circuits	UIC Campus Room 1043 Chicago, IL.	Tour & Social: 5:30 PM Dinner: 7:00 PM Meeting: 8:00 PM
March 16 Monday	Antennas & Propagation/ Microwave Theory & Techniques Societies	Low-Loss Monolithic Transmission Lines: Sub-Millimeter Wave Applications	Jerry Sharko's 2225 Ogden Ave. Lisle, IL.	Social: 5:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
March 18 Wednesday	EMC Society	Tuned Dipoles Biconical & Log Periodic Antennas	AT&T Bell Laboratories 2000 N. Naperville Rd. Naperville, IL.	Social: 7:15 PM Meeting: 7:30 PM
March 24 Tuesday	Fox Valley Subsection	Effects of Electro-Static Discharge	Wilton Manor 2200 Main Street Wheaton, IL.	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
March 25 Wednesday	Computer Society/ Communications Society/	E-Mail Advances: Standards & Implementation Strategies	Jerry Sharko's 2225 Ogden Avenue Lisle, IL.	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
March 26 Thursday	IEEE Videoconference	Optoelectric Datacommunications: Making it Work	College of Dupage 22 & Lambert Rd. Glen Ellyn, IL.	Presentation: 11:00 AM Registration at (708)858-7148
March 29,30 & 31 Sunday thru Tuesday	Chicago Section and The Lendman Group	Employment Assistance Workshop & Technical Career Fair	Embassy Suite Hotel 6501 N. Mannheim Rd. Rosemont, IL.	See Announcement herein for Registration Details

The Chicago Section Announces IEEE Video Teleconferencing Service

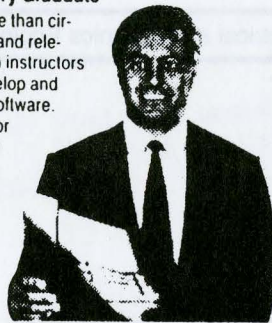
See page 8 for a new membership service provided by our section in collaboration with the College of DuPage.

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Len Martinez, 3M Corporation, 1977 DeVry Graduate

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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!!!

ASCE-IEEE-PMI present "Managing Change '92"

Whether it is staff, product or task management, the forces affecting a project initiate change. The requirement is still to deliver on-time quality within budget. PM '92 sessions will describe analysis and implementation of CHANGE in diverse product areas and service sectors.

A joint committee teams this event at the Drake Hotel, Chicago, IL. Spanning May 7-8 are nine sessions in five rooms. Included are seven vendor presentations and eight instruction sessions for the PMI certification exam in June.

Topic tracks are:

Managing Delay, Disruption and Change
Managing Government Projects for the 90's
Managing International Projects
Quality and Reliability
Managing Information
Project Management Training (Education)
Management Resources (Vendor Presentations)

Possible Participant View
— **Minimization of Adverse Impacts**
— **Contracts Rationale**
— **Global Intercommunications**
— **Maximization of Benefits to Products**
— **Systems Integration and Performance**
— **Certification Exam Instruction**
— **Product/Service Expertise**

Keynote speaker HERB COHEN presents **"YOU CAN NEGOTIATE ANYTHING"**. An expert in negotiation management, Mr. Cohen participates in crisis negotiations and has consulted with the Carter and Reagan administrations on sensitive international events including the Achille Lauro hijacking.

Serving a region encompassing 500+ miles of Chicago, PM '92 committee invites ASCE, IEEE, PMI and ASME Section/Chapters and members to participate. Information is provided by: Project Management '92, 2460 Wisconsin Avenue, Downers Grove, IL 60515, (708) 963-4002.

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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

TECHNICAL CAREER FAIR AND EMPLOYMENT ASSISTANCE WORKSHOP

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The Institute of Electrical and Electronics Engineers**

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IEEE JOB FAIR

Monday, March 30, 1992

&

Tuesday, March 31, 1992

3:00 p.m. to 8:00 p.m. each day

**Embassy Suites Hotel
Chicago - O'Hare Airport
6501 North Mannheim Road
Rosemont, IL 60018**

- No cost • No obligation
- Confidentiality assured • No pre-registration
- Interviews on the spot with hiring managers in all technical fields
- Degree and two or more years' experience required by participating firms
- For list of participating companies, see the employment section of THE CHICAGO TRIBUNE on Sunday, March 29, 1992

IEEE EMPLOYMENT ASSISTANCE WORKSHOP

Sunday, March 29, 1992

9:00 a.m. - 4:30 p.m.

**Embassy Suites Hotel
Chicago - O'Hare Airport
6501 North Mannheim Road
Rosemont, IL 60018**

PRE-REGISTRATION REQUIRED

- Topics covered include Resumes and Letters that Work - Getting the Interview - Locating Job Opportunities
- Companies which have offered this program to their departing employees include General Electric, UNISYS, AT&T, Chevron, and many others.

Please complete this form and mail it to:

Mr. John E. Waters, PACE Chairman
Chicago Section, IEEE
1004 Golfview Drive
Mount Prospect, IL 60056

**Pre-registration deadline: form must be received by
Wednesday, March 25, 1992.**

Name: _____
IEEE Membership #: _____ ☐ Employed ☐ Unemployed
Company Name (Optional): _____
Home Address: _____
City: _____ State: _____ Zip: _____
Evening Phone No.: (____) _____

My company is interested in:

_____ IEEE Job Fairs (programs are held in major cities nationwide)
_____ Payne-Lendman outplacement services

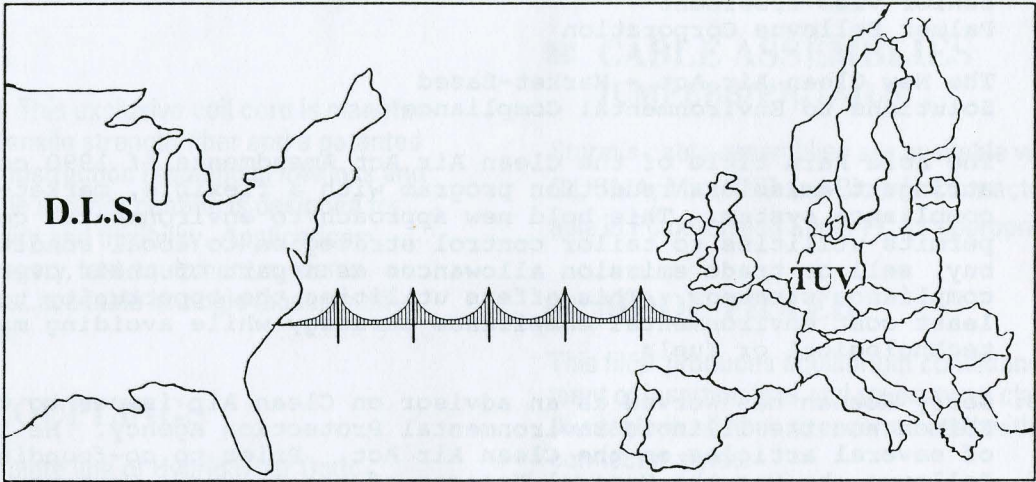
Please contact:

Name: _____
Title: _____
Company: _____
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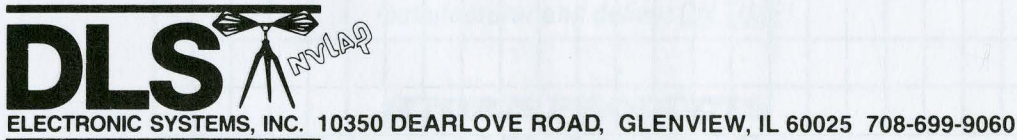
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- Japanese & European companies are getting their products ready now.
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NOMINATING COMMITTEE REPORT

The Chicago Section's Nominating Committee – headed by George Stout – has completed the proposed slate of officers for the next Section Executive Committee. The term of the office will be July 1, 1992 through June 30, 1993. The following are the proposed candidates:

Position	Name
Chairman	Barry Brusso
Vice-Chairman	Len Cohen
Treasurer	Ed Capouch
Secretary	Jack Sherman
Member Services	(To be annnounced)
Publications	Jim Carroll
Professional Activities	John Waters
Conference	Tom Monte
Program	Bob Camillone
Student Activities	Mary Hart
Finance	Don Reynolds
Special Events	Henry Korman
Awards	Carl Kannewurf

The Election Ballot for the Executive Committee will be included in the April 1992 issue of SCANFAX.

The Chicago Chapters of the IEEE Communications and Computer Societies and the UNIX Users Group in Chicago, /usr/group/chicago

DATE:	Wednesday, March 25, 1992
GUEST SPEAKER:	Joseph E. Jesson, Amoco Corp.
TOPIC:	E-Mail Advanced Standards and Implementation Strategies – X.400 and RFC 822
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 23, 1992.
FURTHER INQUIRIES:	For further questions, contact Paul Bhugra at (708) 979-1901.

ABOUT THE TOPIC:

One of the first OSI appiication, X.400 promises the ability to send and receive messages regardless of the E-mail platform or the specific user agent. Comparing X.400 with the well-known RFC822 E-mail protocol, the advantages and disadvantages of each are discussed in a historical context. E-mail X.400 addressing and the X.400 / RFC822 mapping strategy will be reviewed with examples. A full-scale implementation of X.400 throughout Amoco (approximately 30,000 people) was completed January 1, 1992. As a case study of an Inter-enterprise project, X.400 was found to be a viable messaging protocol consistent with commercial E-mail requirements.

ABOUT OUR SPEAKER:

Joseph E. Jesson, in the early 70's, designed microcomputer-based controllers for Motorola, Inc. as an Engineer and a Sr. Engineer at OAK Industry, in Crystal Lake, Illinois. After being promoted to Product Manager at OAK, Joe focused upon new business opportunities related to transparent touch switches and advanced man-machine interface components for seven years. At CNA Insurance, Joe was Network Operations Manager for four years where he experimented with AI tools to assist in diagnosing network problems. Most recently, at Amoco Corporation, Joe was Inter-enterprise Project Manager where he implemented the advanced X.400 E-mail messaging system. Joe has a Master's Degree from DePaul University.

IEEE Video Teleconferencing Service

Recently, our Section has instituted a new Video Teleconferencing Service in conjunction with the College of DuPage that will provide timely presentations for our section's membership. To attend these presentations, you must

1. register, in advance, at (708)858-7148 using class code 2908-621-50,
2. pay a \$50.00 fee, in advance or on arrival, and
3. arrive at the Open Campus Center (OCC) approximately 1/2 hour prior to the start of each presentation.

This Video teleconferencing Service is administered by the College of Dupage. The presentations will be conducted at the Open Campus Center, whose location is just west of the College of Dupage's main campus.

The Video Teleconferencing presentations will be conducted as follows:

1. Registration and payment will be handled by the College of DuPage, 22 Street & Lambert Road, Glen Ellyn, Illinois.
2. Currently, each presentation will be held at the OCC Room 128 from 11:00 AM to 2:00 PM and will include a light lunch with refreshments. Also, materials will be provided to attendees if they are made available to the College of DuPage.
3. Adequate parking is available at the OCC.

Section members should note that our Section's business office will not be directly involve with the IEEE Video Teleconferencing Service. Also, the Section is planning several presentations throughout this calendar year, the first of which is detailed below. Future presentations will be announced in SCANFAX. Section Members interested in further details about this IEEE Video Teleconferencing Service may direct their inquiries to Jack Sherman at (708)576-8222.

Jack Sherman, Member Services and Jim Carroll, Editor

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

Topic: Novel Low-Loss Monolithic Transmission Lines for
Sub-Millimeter Wave Applications

Date: Monday March 16, 1992

Speaker: Dr. Linda P. B. Katehi
University of Michigan, Ann Arbor



ABSTRACT: In the sub-millimeter wave region, monolithic transmission line development is still in its infancy. Two design approaches for such low-loss lines shall be compared. The first attempts to extend mm-wave monolithic technology to higher frequencies, with important structural modifications to avoid excessive radiation power loss. The second approach extends optical techniques to lower frequencies, and has resulted in novel, low-loss, quasi-planar lines made exclusively of intrinsic semi-conducting materials.

A detailed presentation on the properties of these low-loss lines will be given, with comparison to more conventional monolithic lines, such as microstrip and coplanar waveguide in terms of performance, fabrication and availability. Advantages and disadvantages associated with the use of these guides will be discussed extensively.

PLACE: Jerry Sharko's 2 mi. west of I-355, or
2225 Ogden Avenue, Lisle, IL 1/2 mi. east of Naperville/Wheaton Road

TIME: Social 5:30 PM (cash bar) Dinner 6:30 PM Meeting 7:30 PM

Please make your reservations by noon on Friday, March 13, by calling the IEEE Message Center at (708) 963-3828. The dinner costs \$15.00, and is optional. Reservations are requested, even in you plan to attend the meeting only. Non-IEEE members are welcome.



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FOX VALLEY SUBSECTION

FOX VALLEY SUBSECTION

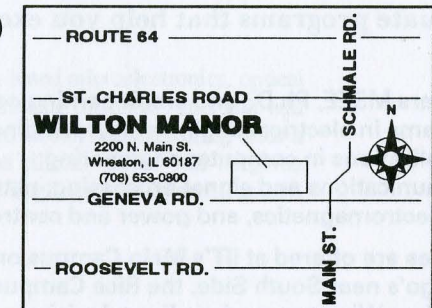
TOPIC: **The Effects of ESD (Electro-Static Discharge)**

DATE: Tuesday, March 24, 1992

SPEAKER: Larry T. O'Neill
Static Analyst
3M Company

PLACE: Wilton Manor, 2200 N. Main St., Wheaton, IL 60187

TIME/COST: Social: 6:00 p.m. Cash Bar
Dinner: 7:00 p.m. \$13.00
Students with ID: \$11.00
Speaker: 8:00 p.m. Free*



RESERVATIONS: Call (708) 963-3828 to make reservations for Dinner and/or Meeting, by Friday, March 20, 1992. Casual attire appropriate, as always.

ABSTRACT: Static Control Systems at 3M has compiled data from numerous published studies by leaders in the Electronics Industry such as Jet Propulsion Laboratories, Westinghouse Electric, Medtronics, Reliability Analysis Center, and many others. Mr. O'Neill will present this data and 3M's research results for solving ESD related problems. In addition to demonstrating catastrophic destruction of a MOS/FET due to ESD, Mr. O'Neill will also focus on Identifying and understanding ESD, and applying general solutions to common ESD problems.

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

IEEE MEETING NOTICE

CHICAGO CHAPTER - IEEE EMC SOCIETY

DATE: WEDNESDAY - MARCH 18, 1992 LOCATION: AT&T BELL LABORATORIES
Refreshments 7:15 P.M. 2000 N. NAPERVILLE ROAD
Meeting 7:30 P.M. NAPERVILLE, ILLINOIS

SPEAKER: CARL HERZOG FROM ELECTROMETRICS

TOPIC: TUNED DIPOLES - BICONICALS AND LOG PERIODIC ANTENNAS,
THEIR CHARACTERISTICS AND USES

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

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Presents:

EMC 1992 Symposium on EC Requirements

- **Boston** April 27-28
Guest Quarters Suite Hotel
- **Dallas** April 30-May 1
Loews Anatole Hotel
- **Chicago** May 4-5
Radisson Suite Glenview
- **Anaheim** May 7-8
Hyatt Regency Alicante

The EMC 1992 Symposium is a two day seminar featuring a panel of experts, from Germany and the United States, in the field of European Community (EC) Electromagnetic Compatibility (EMC) testing and the EMC requirements for 1992.

They will focus on the new immunity (susceptibility) standards and the implementation of European Community directive 89/336/EEC.

Symposium participants will gain an increased awareness of the European EMC rules, regulations and their impact on U.S. companies exporting to Europe.

The sessions combine tutorial presentations with open forum panel discussions where questions are encouraged.

Simply call to confirm your space. Payment is due in advance. Previous EMC seminars were full, so call NOW to register.

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LASERS AND ELECTRO-OPTICS SOCIETY



Topic: **SILICON BASED OPTICAL INTEGRATED CIRCUITS**
Date: **Thursday, March 12, 1992**
Speaker: **David L. Naylor**
Dept. of Electrical Engineering & Computer Science
University of Illinois at Chicago

Abstract: To utilize the well-known advantages of optical interconnects in silicon based microelectronics, optical components must be integrated with silicon substrates using VLSI compatible processing methods. This talk will review different approaches to silicon based optoelectronics and optical integrated circuit manufacturing with a special emphasis on the latest developments in luminescent devices using porous silicon. Tours will be given around the UIC Microfabrication Applications Laboratory in the recently dedicated Engineering Research Facility, including live demonstrations of visible light emission from silicon.

University of Illinois at Chicago Campus

Tour & Social:	5:30-7:00pm	Room 1043 - Engineering Research Facility
Dinner:	7:00pm	Room 1043 (\$14 per person, \$7 for students)
Technical Presentation:	8:00pm	Room 1043

Entree choices are Beef Burgundy or Chicken Enchiladas. Advanced tour and dinner reservations should be made by calling the IEEE Chicago Message Center at (708) 963-3828 by 5:00 p.m. on Tuesday March 10, 1992. For additional information, contact Bob Novotny at (708) 713-5419.



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INDUSTRY APPLICATIONS SOCIETY INDUSTRIAL ELECTRONICS SOCIETY CHICAGO CHAPTER

UNDERWRITERS LABORATORIES HOSTS

Topic: **ISO 9000 in the Changing World of Quality Assurance**
Date: **Wednesday, March 11, 1992**
Speaker: **Peter Chresanthakes, Underwriters Laboratories, Inc.**
Program Timetable:

5:30- Soft drinks and coffee served
6:30- Buffet Dinner
7:30- Technical presentation

Abstract: With the growth of the global marketplace and the need for consistent Quality Assurance, the demand for a unified set of Quality Standards has arisen. Over time, the ISO 9000 Standards have led the way for this consolidation. Mr. Chresanthakes will be discussing the concepts of ISO 9000 at this meeting.

Directions: Underwriters Laboratories is located at 333 Pfingsten Road in Northbrook, IL, midway between Dundee Road and Lake Cook Road. Enter UL's property at the Southwest corner of Pfingsten Road. Use the visitor's lot to the South of the complex. Enter the reception area at the circle drive.

Reservations: The cost for refreshments and the buffet dinner is \$12. There is no charge for anyone to attend only the technical program. To make your reservations, call Chuck Wintergerst or John Kovacik at (708) 272-8800, or the IEEE Office at (708) 963-3828.

PLEASE POST — INVITE YOUR FRIENDS AND BUSINESS ASSOCIATES

IEEE RECOGNITION DINNER — 1992

DATE : SATURDAY, MAY 2, 1992
PLACE : WOODFIELD HILTON & TOWERS (LAKE MICHIGAN ROOM)
3400 W. EUCLID AVENUE, ARLINGTON HEIGHTS, 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

1992 IEEE Fellow	Dr. Albert H. Rubinstein (Northwestern University)
1992 IEEE Fellow	Dr. Der-Tsai Lee (Northwestern University)
Student Awards	(names to be announced)
Student Chapter Advisors	(names to be announced)
1992 Section Chairman's Awards	Andrew Corporation Commonwealth Edison Fluor-Daniel Inc. S & C Electric Tellabs Inc.

THE SOCIAL SCENE

ENTERTAINMENT John P. Hopkins — comedian, ventriloquist, magician, raconteur,
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DANCING Frank "K" and Company
with tunes to put you in the mood for dancing

DINNER COMMITTEE MEMBERS:

Chairman	Henry Korman, Gentry Technologies
Vice Chairman	Frank Lakowski, United Chemi-Con
Secretary	James Barrett, McGregor, Inc.
Treasurer	John Waters, Waters Associates, Consultants
Arrangements	Gene Golemo, Motorola, Inc.
Tickets	Joseph Feitler, Interactive Systems Corporation
Entertainment	Ray Schulenberg, Motorola, Inc.
Solicitations	Sheldon Isenberg, Northrop DSD 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 25, 1992)
by phone — Joe Feitler at ISC: (708) 505-9100, x277 (no later than April 27, 1992)

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 27, 1992