

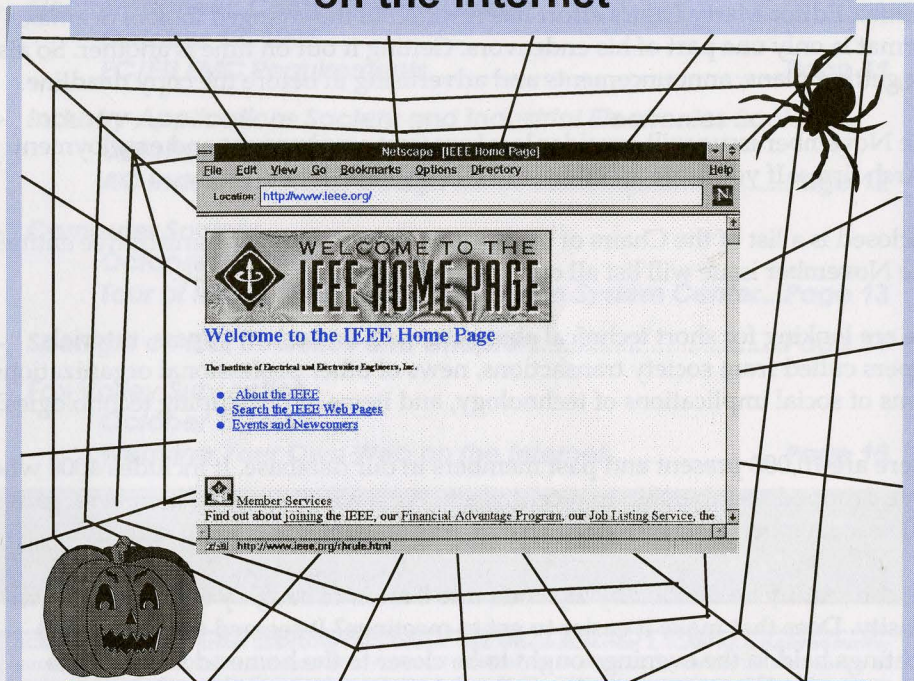


Scanfax

Institute of Electrical & Electronic Engineers  Chicago Section Newsletter

October 1995

Weaving Your Own Web on the Internet



***Fox Valley Subsection Kickoff Dinner
October 25, 1995***

Details on Page 15

Chairman's Message

Greetings!

There is a quip — "If we don't change the direction we are going, we are going to end up where we are headed."

Customer satisfaction oriented businesses try to find out what their customers want. Satisfied with their successes, others don't need to do the sampling and query thing. Are you satisfied with our direction?

Scanfax Editor Marty Lake's effort has resulted in the changed look of Scanfax. Format is only one part of his endeavors. Getting it out on time is another. So also are getting plans, announcements and advertising in before the copy deadline.

The November issue will consider local contract employment and employment search firms. If you have an interest in these, please let me know.

Enclosed is a list of the Chairs of the various technical and administrative entities. The November issue will list all our volunteers and what they do.

We are looking for short technical abstracts, such as student papers, tutorials, papers culled from society transactions, news of other professional organizations, items of social implications of technology, and items of developing technologies.

There are 10,000 present and past members in our database. It includes 4000 who have dropped membership in recent years. We have 6000 active members, gain 400 new members and lose 700 a year. Can you help change that direction?

We can readily be divided by zip code into 8 areas of roughly equal population density. Does that make it easier to get to meetings? It seemed to us once that meetings held in the evenings ought to be closer to the home addresses. One third of our members live in Chicago, another third are in Fox Valley, and the rest are in Northwest. So why are there no evening meetings in Hyde Park, or Lincoln Park, or in Rogers Park? Where would you like to have meetings?

We have assumed that the topic, rather than the date or location is the critical component of attendance. To what extent does the topic influence attendance? Comments and volunteers are our necessity, so please speak up.

Regards,
Jack Sherman, IEEE Chicago Section Chair — j.sherman@ieee.org



Jack Sherman

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Chicago Section Executive Committee Meeting

October 10, 1995 • 7:15 PM

DeVry • 1221 N. Swift Road • Addison, IL

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Articles for December '95 due October 26. Articles for January '96 Scanfax due November 16.

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Chicago Chapter
IEEE
COMPONENTS,
PACKAGING and
MANUFACTURING
SOCIETY

Welcomes You to a
Afternoon and
Evening Seminar

GAS TUBE SURGE VOLTAGE SUPPRESSORS

Presented by
Benny Lee of World Products, Inc.

Tuesday, October 3, 1995

ABOUT OUR TOPIC

Surge Protection Components — Gas Tube Surge Protection, Silicon Diode, Metal Oxide Varistors. What are the differences and benefits of each technology? How they can be used together to create effective hybrid solutions?

Surge protection devices are designed to protect equipment from the high surge voltages that occur on communication lines from direct crossing from power line accidental failure, by close proximity induction, and by lightning.

At voltages below their breakdown ratings, they are very high impedance devices. Above breakdown, gas tubes go into plasma conduction and act as constant voltage devices over their ranges of currents. They return to their high impedance state when the surge falls.

ABOUT OUR SPEAKER

Mr. Lee has an MSEE from Purdue and is affiliated with various IEEE working committees and is on the UL Advisory Committee for UL 1449 and 1414.

PLACE

Motorola Schaumburg Campus
Building 1301, Door Location 13
1301 Algonquin Road, Gate A
Schaumburg, IL

TIME

Presentation 3:00 PM

DeVry Institute of Technology
1221 N. Swift Road
Addison, IL

Presentation 7:00 PM

FOR RESERVATIONS

Please call the IEEE Business Office at (800) 898-IEEE.

FOR FURTHER INFORMATION

Contact Jack Sherman at (708) 576-8222.

POWER
ELECTRONICS
SOCIETY
with
Power Engineering
Society,
Industrial Applications
Society, and
Fox Valley Subsection
Welcomes You to a
Morning Seminar

AC ELECTRONIC DRIVE TECHNOLOGY

Presented by
Howard Penrose and Hao Zhong
of
Dreisilker Electric Motors, Inc.

Saturday, October 7, 1995

ABOUT OUR TOPIC

Electronic control of electric motor systems has moved forward at an alarming pace. New Technologies allow for precise control of inverter motor operation while paying for themselves in a relatively short period of time. This seminar shall present a half-day feature of Adjustable Frequency Drive Technology. The focus will be on the purpose of AFD's for energy efficiency and production control. It will cover some of the general features of Pulse Width Modulation (PWM) Insulated Gate BiPolar Transistor (IGBT) drives.

The seminar will cover basic electric motor theory. AFD's in variable load and constant load applications, basic AFD components and operation, and power quality effects on AFD's and the motor system. A board-level walkthrough of AFD operation and the operation of closed loop vector drives will also be presented.

ABOUT OUR SPEAKERS

Howard Penrose is the Director of Field Service and Research and Development for Dreisilker Electric Motors, Inc. Hao Zhong is Dreisilker Electric Motors's Electronics Engineer specializing in motion controls. Mr. Zhong has published numerous papers on AFD technology.

PLACE

Dreisilker Electric Motors, Inc.
352 Roosevelt Road
Glen Ellyn, IL 60137

TIME

Continental Breakfast 7:30 AM
Presentation 8:00 AM

DIRECTIONS

Dreisilker Electric Motors is located on the north side of Roosevelt Road between Lambert Road and Park Boulevard. Please park in the east lot and enter through the east entrance of the rear building.

FOR RESERVATIONS

Please make your reservation by calling the IEEE Business Office at (800) 898-IEEE no later than noon, Wednesday, October 4.

FOR FURTHER INFORMATION

Contact Howard Penrose at (708) 469-7510 x250.

Chicago Chapter
IEEE
POWER
ENGINEERING
SOCIETY

Welcomes You
to a
Luncheon
Program

EMERGING ISSUES IN THE ELECTRIC UTILITY INDUSTRY

Presented by
Linda S. Manning
of
Commonwealth Edison

Wednesday, October 11, 1995

ABOUT OUR TOPIC

Today forces are at work to forever change the electric power industry in the United States. Various industry and government initiatives have been proposed as a means of furthering this process. Ms. Manning, as vice-president of ComEd's Transmission System Area, will share some of her thoughts and vision about this dynamic change process.

ABOUT OUR SPEAKER

Linda Manning graduated with a BSEE in 1972 from the Illinois Institute of Technology. She began her professional career with Commonwealth Edison in September 1971 as a fossil stations electrical project engineer. In over twenty-two years with Commonwealth Edison, assignments have included both engineering and operations.

Ms. Manning is a Registered Professional Engineer in Illinois, a member of IEEE, the Western Society of Engineers, the Committee on Electric Power Apparatus of the Association of Edison Illuminating Companies, and the Board of Overseers of the Armour College of Engineering and Science.

PLACE

Chicago Bar Association
321 S. Plymouth Court
Chicago, IL
(Near Jackson and Dearborn)

TIME

Social 11:30 AM
Lunch 12:00 PM
Presentation 12:30 PM

FOR RESERVATIONS

Please call the IEEE Business Office at (800) 898-IEEE to make your reservation no later than noon, Monday, October 9th.

NOTES

Lunch tickets can be purchased in the lobby (\$8.50).

FOR FURTHER INFORMATION

Contact Sam Peach at (708) 995-2537.

CALL FOR PAPERS

The 12th International Conference on Advanced Science and Technology

SPONSORS: Chinese Academic and Professional Association in Mid-America (CAPAMA), The University of Illinois and National Yang Ming University (ROC).
CO-SPONSORS: Fermi Laboratory, Society of Chinese Biologists in America, National Science Council (ROC), Development Center for Biotechnology (ROC), AT&T Bell Laboratories, Mid-America Chinese Science & Technology Association, National Youth Commission (ROC).
In Association With: Institute of Electrical and Electronic Engineers (IEEE) Chicago Section.

CONFERENCE THEME: EMBRACING THE NEXT CENTURY

ICAST 96

The University of Illinois
at Chicago Medical Center
Chicago, Illinois
April 6, 1996

Steering Committee Chair

Prof. Yun L. Chan
University of Illinois at Chicago
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(B) Prof. Ken N. Kuo
Rush University
Fax: (708) 789-1870
Prof. Chung Lee
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Fax: (708) 797-3664
(E) Dr. Gong-Ping Yeh
Fermi Laboratory
Fax: (708) 840-4343
R.O.C. Coordinator
Prof. Alan Lin
National Yang-Ming University
Fax: (02) 826-4930

Papers are being solicited for the 12th International Conference on Advanced Science and Technology. This conference will bring together professionals and researchers from academic, governmental, and industrial sectors to discuss recent advances in science, engineering and technology. Preprint proceedings will be published and available at the conference site. The conference will be organized along the following THEMES:

(A) Pharmaceutical Sciences and Biotechnology

- * Pharmaceutical Biotechnology in Drug Discovery
- * Pharmaceutical Biotechnology in Drug Delivery
- * Natural Products in Drug Development
- * Novel Drug Delivery and Design
- * Pharmacokinetics of Biotechnology Products
- * Absorption and Transport of Drugs

(B) Clinical and Basic Medical Sciences

- * Cartilage Biology and Arthritis
- * Medical Engineering
- * Sport Medicine and Rehabilitation
- * Endocrinology and Disorders
- * Cardiovascular Disorders
- * Tumor Cell Biology
- * Molecular Biology
- * Signal Transduction
- * Hormones and Growth Factors
- * Membrane Biophysics

(C) Biological Engineering and Economics

- * Bioenvironmental Air and Water
- * Bioprocesses for Food Safety and Quality
- * Bioremediation of Process Waste
- * Value Added Bioproducts

(D) Computer, Communication & Networking

- * Object-Oriented Designs and Systems and CASD Applications
- * Multi-Media Computing and Applications
- * Software Technology, Applications and Development Environment
- * Neural Networks, Distributed and Parallel Systems
- * ATM/ISDN Systems, Applications and Protocols
- * Digital Wireless/Mobile Communications Technology
- * Fiber Optics and Satellite Systems
- * Networking Technologies and Services
- * Internet Applications and WWW Servers
- * Database Technology

(E) High Energy Physics and Related Topics

- * Introduction and Highlights
- * Particle Detectors
- * Advanced Photon Sources
- * Fermi Lab
- * High Energy Physics and Technology
- * Intense Pulse Neutron Sources

INFORMATION FOR AUTHORS

The conference language is English and all papers must be written in English. Authors are requested to submit 3 copies of abstract. Your abstract should be informative, containing (1) a title with author's name(s) and affiliation(s); (2) the study's specific objective; (3) brief statements of methods, if pertinent; (4) a summary of the results; (5) the conclusions. A submission letter must accompany the abstract, containing (1) the conference theme relevant to your paper, (2) the principal author's address and telephone number for correspondence. Abstracts must be received by **November 1, 1995**. Principal authors will be notified of acceptance by **December 1, 1995** and will be given instructions for the paper format. Three drafts of paper are due **February 1, 1996**. Final camera-ready papers will be required by **March 1, 1996** for inclusion in the ICAST Proceedings, Volume 12. Submit abstracts and papers to:

Dr. Weider Yu, AT&T Bell Labs,
Room 33J-11, 2600 Warrenville Rd., Lisle, IL 60532-3640, USA.
Fax: (708) 224-2393 Email: w.d.yu@att.com.

STUDENT PAPER CONTEST AND SUPPLEMENTARY INFORMATION

Student Paper contest for university graduate students will be held as part of this conference. A full-time student must be the principal author. Awards will be presented to the authors of the top papers. Featured speakers will be invited to make presentations. Workshop on job interviews and possibly a job fair will be held in conjunction with the conference.

IEEE CHICAGO SECTION DIRECTORY 1995 - 1996

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Vehicular Technology TBA

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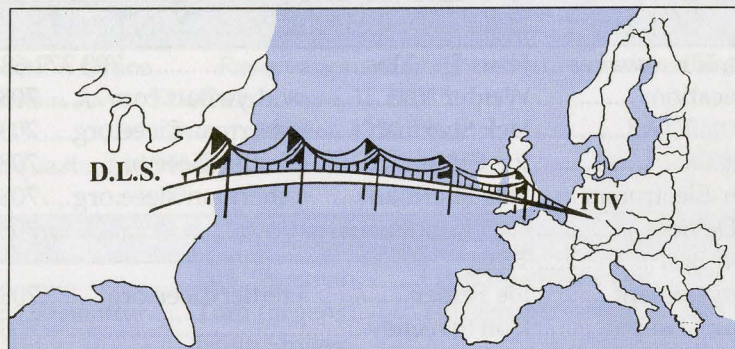
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DePaul Chungwen Liu 312 362 8722
IIT David Patterson 312 576 3521
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UIC Sharad Laxpati 312 996 3453

SPECIAL INTEREST GROUPS

Women in Engineering TBA women.chicago@ieee.org
Consultants Network (AICN) ... TBA consultants.chicago@ieee.org
Life members TBA

IEC = IL Engr Council Delegate TBA = To Be Announced.

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ELECTRO -
MAGNETIC
COMPATIBILITY
SOCIETY

Welcomes You
to an
Evening Program

EC/EU EMC REQUIREMENTS

Presented by
Donald L. Sweeney
of
D.L.S. Electric Systems, Inc.

Wednesday, October 18, 1995

ABOUT OUR TOPIC

Don will speak on the EC/EU EMC requirements. The goal will be to establish a step by step approach as to what you need to do. This information has been presented to more than 3000 engineers over the past several years.

PLACE

AT&T Bell Laboratories
2000 N. Naperville Rd.
Naperville, IL
(708) 979-2000

TIME

Social 7:15 PM
Presentation 7:30 PM

NOTES

Refreshments will be served at 7:15 PM.

DIRECTIONS

Bell Labs is located at the northwest corner of Warrenville Rd. and Naperville Rd. To enter, go west on Warrenville Rd. to the first turn on the right. Enter the drive and again take the first right into the parking lot. To enter the building, go to the center of the southeast side near the flag poles.

FOR RESERVATIONS

Please call the IEEE Business Office at (800) 898-IEEE to make your reservation.

INDUSTRY
APPLICATIONS
SOCIETY
and
INDUSTRIAL
ELECTRONICS
SOCIETY

Welcomes You
to a
Dinner Program

AC INDUCTION MOTOR DESIGN

Presented by
Howard Penrose
of

Dreisilker Electric Motors, Inc.

Wednesday, October 25, 1995

ABOUT OUR TOPIC

Topics to be discussed are:

- I. The speed torque curves for different design motors,
- II. Differences in classes of motor insulation,
- III. New series "E" motors and their protection requirements, and
- IV. Energy efficient motor design.

Howard Penrose is the Director of Field Service and Research and Development for Dreisilker Electric Motors, Inc. He is currently the IEEE Region 4 representative to the US Activities Energy Committee.

PLACE

Como Inn
546 N. Milwaukee Ave.
Chicago, IL

TIME

Social 5:30 PM
Dinner 6:00 PM
Presentation 7:00 PM

DIRECTIONS

From the North: Take 90/94 to Ogden Avenue exit. Turn left onto Ogden to Milwaukee Avenue. Turn right on Milwaukee and proceed south. The Como Inn is located just over the expressway.

From the South: Take 90/94 to Lake Street exit. Turn left on Lake to Halsted Street. Turn right on Halsted to Milwaukee Avenue. Turn left on Milwaukee to the Como Inn.

Parking: Two large free self park lots are available or valet service at the Como Inn entrance on Ohio Street.

FOR RESERVATIONS

To make your reservation, call the IEEE Business Office at (800) 898-IEEE.

FOR FURTHER INFORMATION

Contact Pat Hennelly at (708) 298-4510.

COMPUTER SOCIETY

Welcomes You
to an
Evening Tour

TOUR OF ILLINOIS DEPARTMENT OF TRANSPORTATION SYSTEM CENTER

Hosted by Anthony Cioffi of IDOT

Wednesday, October 25, 1995

ABOUT OUR TOPIC

The Chicago Chapter of the IEEE Computer Society has arranged a tour of IDOT's Chicago Area Traffic System Center. The Illinois Department of Transportation (IDOT) operates the world's most advanced automated traffic surveillance and control system which covers our six-county area. The Center processes data from over 2000 highway loop detectors, continually recalculates traffic levels and then programs 95 ramp controls and 13 message signs. The news media get immediate access to traffic information which now includes color-graphics maps. The system uptime averages above 99.3%.

ABOUT OUR HOST

Mr. Cioffi is the manager of the Traffic System Center. He has a BSEE, MS in Civil Engineering, and an MBA, all from the University of Illinois at Chicago.

PLACE

Illinois Dept. of Transportation
455 Harrison St.
Oak Park, IL

TIME

Promptly Starts 6:30 PM

DIRECTIONS

IDOT is along the north side of the I-290 (Eisenhower Expressway) on Harrison St. near Gunderson. IDOT is between the Austin and Harlem exits on I-290, one block east of Ridgeland Ave. Please park in the adjacent parking lot.

FOR RESERVATIONS

Please make your reservation by calling the IEEE Business Office at (800) 898-IEEE no later than October 15. Reservations are required.

FOR FURTHER INFORMATION

Contact Joe Feitler at (708) 383-8773.



Spotlight on IEEE Societies and Chapters

Forty percent of our members do not belong to Societies. The same percentage of Life members drop their society membership. Fixed or reduced income is probably the reason.

Many society members have expressed a desire to find colleagues to help them understand the transactions papers. Why not have 'pooling our ignorances' meetings. Students are a notable resource, their professors expend considerable effort to be current. All of these issues can combine to provide a much needed technology upgrading.

The section will help find meeting locations if the interested people can help locate each other. Dinner and luncheon meetings are not a necessary adjunct.

Is there an interest in providing reference copies of transactions? Many members 'do not need' to join societies, the transactions are available where they work. What happens if they get 'downsized', are trade magazines the technical resource? Can we provide a societies transactions resource library?

Magnetics and Nuclear and Plasma Sciences organizers are busy seeking petitioners to form a chapter. Members of these two have petitions coming in their mail. Non members - please call the Section office.

Engineering in Medicine and Biology needs a new steering committee.

Kevin Owens needs 8 more petitioners for a Robotics and Automation Chapter.

Lasers and Electro-Optic has combined with Electron Devices for the present year. If you prefer a separate arrangement, please let us know.

Signal Processing has separated from Consumer Electronics. They both need steering committee volunteers.

Volunteering need not require more than an hour a month. Perhaps committee meetings can be supported by electronic mail.

The list of contacts elsewhere in this issue is a good place to start. Else call the Chicago Office 800 898 4333 for referral to an organizer.

—From Jack Sherman, Chicago Section Chair

**FOX VALLEY
SUBSECTION**
with
*Communication
Society, and
Computer Society*

Welcomes You
to an
Evening Program

WEAVING YOUR OWN WEB ON THE INTERNET

Presented by
Guy Starner of AT&T Bell Laboratories
Wednesday, October 25, 1995

ABOUT OUR TOPIC

The World-Wide Web provides an unprecedented opportunity for open publishing, for a nominal cost. Authors, or would-be authors, can make their work available to millions of "Web Surfers." On-line services and Internet service providers are now allowing subscribers to put up their own "home pages." However, the tools for creating home pages are slow in coming and the language of the Web, HyperText Markup Language (HTML), seems complex to Web novices.

The purpose of this talk will be to explain the basics of HTML so that you can publish your own material on the Web. Topics will include a quick Web overview, URL's, SGML and its relationship to HTML, the structure of an HTML document, an in-depth treatment of simple HTML elements, and a more cursory treatment of the advanced HTML constructs available in HTML 2.0, 3.0, and the Netscape extensions. We'll also discuss the use of filters and HTML editors to simplify HTML creation.

The talk will include a live demonstration of the World Wide Web, including the creation of a Home Page.

ABOUT OUR SPEAKER

Guy Starner is a Member of Technical Staff at AT&T Bell Laboratories. He has actively used the Internet for the last eleven years and has administered an internal AT&T Web Server for the past two years.

PLACE

Jerry Sharko's
2225 Ogden Ave.
Lisle, IL

TIME

Social 6:00 PM
Dinner 7:00 PM
Presentation 8:00 PM

NOTES

Dinner costs \$15.00 per person and the presentation is free. Dinner menu includes Garden Salad, Dinner Rolls, Family Style Entree, Coffee, and Desert. Dietary and vegetarian meals can be requested when you make your reservation.

FOR RESERVATIONS

Please call the IEEE Business Office at (800) 898-IEEE to make your reservation.



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IT PAYS TO ADVERTISE IN SCANFAX

More than 6500 readers who are influential in the electrical, electronics and computer industry receive SCANFAX each month (except July and August).

These readers represent more than 200 companies in the Chicago area.

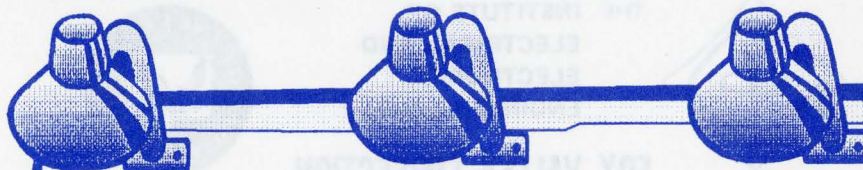
Included are manufacturers, consultants, sales representatives, universities, and colleges.

You can reach this targeted professional audience with your advertisement in SCANFAX. A full page ad in the new format is less than 5 cents per reader. That's a fraction of the cost of postage alone.

Half-page ads and business card size ads are also available for help wanted and consultant service announcements.

For more information or to place an ad contact Len Cohen at
(708) 272-8800 x42692.





IEEE FOX VALLEY

1995 - 1996 SESSION

October 25, 1995

Weaving Your Own Web On The Internet

November, 1995

Tour

December 27, 1995

Multimedia Software

January 24, 1996

Sloan Sky Survey

February 28, 1996

Personal Communications Service (PCS)

March 27, 1996

Micro Fabrication

April 24, 1996

Personal Computing

May 22, 1996

Power Transmission

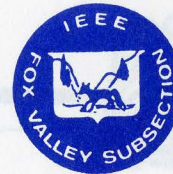


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to make your reservations



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October, 1995

Dear IEEE Member of Fox Valley;

Welcome to another great season of Fox Valley events for your professional growth, career development, and enjoyment!

We, the officers and volunteers of the Fox Valley Subsection, invite you to come to as many of our events as possible. We will be continuing to hold our meetings at *Jerry Sharko's*, in Lisle. The atmosphere is casual and cordial, as always. We have joined with several of the other technical societies to bring you a variety of the latest relevant and interesting topics. Attending Fox Valley events allows you to expand your technical horizons, meet and network with colleagues from other companies, and hear new perspectives on a wide range of engineering topics.

Therefore, we invite you to join your fellow IEEE members -- for our social hour, dinner, and presentation. Bring a friend or two along (they don't need to be IEEE members). Keep the attached magnet handy as a monthly reminder; watch SCANFAX for further details. Share our season's line-up (on reverse) with your colleagues. Finally, feel free to call me if you have questions or comments about the upcoming season.

We look forward to seeing you, starting October 25th!

Sincerely,

Manish Shah,
Fox Valley Subsection Chair,
1995 to 1996 Season

INVITATION

Magnet Peels Off