



# Scanfax

SCANFAX, IEEE MESSAGE CENTER — SUITE 300  
820 NORTH ORLEANS STREET  
CHICAGO, IL 60610

U.S. POSTAGE PAID  
NON-PROFIT ORG.  
Permit No. 479  
Glen Ellyn, Illinois

Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • APRIL 1990

## TIME SENSITIVE MATERIAL

### CALENDAR OF EVENTS

For reservations call the IEEE office 649-2800  
(unless otherwise indicated)

Copy Deadline for May Scanfax is March 27, 1990

|                       |                                                               |                                                                     |                                                                   |                                                          |
|-----------------------|---------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|
| April 10<br>Tuesday   | Chicago Section                                               | Executive Committee                                                 | Contemporary Controls<br>2500 Wisconsin<br>Downers Grove, IL      | Meeting: 7:15 PM                                         |
| April 11<br>Wednesday | Power Engineering<br>Society                                  | Gas Insulated<br>Substations                                        | Carson Pirie Scott<br>Chicago-Monroe & Wabash<br>Corporate Level  | Social: 11:30 AM<br>Lunch: 12:00 PM<br>Meeting: 12:30 PM |
| April 11<br>Wednesday | IAS/IES<br>Society                                            | 1990<br>National<br>Electrical Code                                 | UL Cafetorium<br>333 Pfingsten Rd.<br>Northbrook, IL              | Social: 5:30 PM<br>Dinner: 6:30 PM<br>Meeting: 7:30 PM   |
| April 12<br>Thursday  | LEOS                                                          | APGaAs-GaA<br>Quantum Well<br>Lasers                                | Amoco<br>Warrenville Rd.<br>Naperville, IL                        | Lab Tour: 5:30 PM<br>Dinner: 6:30 PM<br>Meeting: 7:30 PM |
| April 17<br>Tuesday   | Components<br>Hybrids and<br>Manufacturing<br>Technology Soc. | Electronic<br>Circuit Thermal<br>Measurements                       | Jack Sherman<br>708-576-8222                                      | —                                                        |
| April 18<br>Wednesday | Communications<br>Society                                     | WMAQ-TV<br>Facility Tour                                            | NBC Tower<br>454 N. Columbus Dr.<br>Chicago, IL                   | Meeting: 7:00 PM                                         |
| April 19<br>Thursday  | Reliability Society                                           | Taking Command<br>of Your Financial<br>Future                       | Midway Motor<br>Lodge<br>1600 Oakton St.<br>Elk Grove Village, IL | Social: 6:00 PM<br>Dinner: 6:30 PM<br>Meeting: 7:30 PM   |
| April 24<br>Tuesday   | Computer Societies                                            | Knowledge Base<br>Management<br>Systems                             | Wilton Manor<br>Schmale Rd.<br>Wheaton, IL                        | Social: 6:00 PM<br>Dinner: 6:30 PM<br>Meeting: 7:30 PM   |
| April 25<br>Wednesday | Fox Valley/EMV                                                | Trends in<br>Electrical Transducers<br>for Monitoring<br>and Pacing | Wilton Manor<br>Schmale Rd.<br>Wheaton, IL                        | Social: 6:00 PM<br>Dinner: 7:00 PM<br>Meeting: 8:00 PM   |

## 'EASIER TO TRAIN.'

Many employers will tell you that's why they hire DeVry graduates in Electronics. Our Bachelor's Degree graduates and Technicians become productive quickly because they have...

- Learned how to adapt to change, in programs that integrate computers, communications and control systems.

- Developed strong problem-solving skills with our integrated hardware/software approach.

Find out why so many employers call DeVry first for graduates in Electronics — and in Computer Information Systems. We can also handle interview details for you, at no charge.

# DEVRY

**INSTITUTE OF TECHNOLOGY**

**CONTACT:**

**Associate Directors of Graduate Placement**

**Judy Bowie**

3300 N. Campbell Avenue  
Chicago, IL 60618

**Doug Fauth**

2000 S. Finley Road  
Lombard, IL 60148

**(312) 929-7837 (708) 953-1300**

**DEVRY. We're serious about success.®**

© 1990 DEVRY INC.

G1

## COMPONENTS, HYBRIDS, and MANUFACTURING TECHNOLOGY SOCIETY

Tues Apr 17, Elgin area

Topic— Electronic circuit Thermal  
Phenomena Measurements.

Several special interest groups are being formed. If you have an interest in any of these three, please contact Jack Sherman for details.

**ELECTRONIC MATERIALS**

**THERMAL MANAGEMENT**

**PASSIVE ELECTRONIC COMPONENTS**

Jack Sherman, 708 576 8222 or  
708 885 4189.

## HELP! — NEW BLOOD NEEDED!!!!

THE SECTION NEEDS NEW BLOOD NOW! THE BALLOT IN THIS ISSUE HAS TWO VACANCIES, FOR PROGRAM CHAIRMAN AND FOR FINANCE CHAIRMAN. YOU DON'T HAVE TO BE A GENIUS TO HELP, JUST A WILLINGNESS TO SHOW UP AT THE MONTHLY SECTION MEETINGS AND LEND A HAND TO THE IEEE. IEEE IS ONLY AS STRONG AND USEFUL AS ITS MEMBERS MAKE IT. IF YOU HAVE ANY INTEREST IN PROGRAMS OR FINANCE, WRITE YOUR NAME IN ON THE BALLOT, AND ASK A FEW FRIENDS TO DO THE SAME. SERVING THE SECTION WILL OPEN A NEW PROFESSIONAL DOOR FOR YOU, AS WELL AS GIVING YOU A CHANCE TO MAKE NEW FRIENDS. PLEASE HELP TO MAKE IEEE A STRONG ORGANIZATION.

SCANFAX, (Publication) number (ISSN 0018-1297), April, 1990 Volume 42, Number 8, SCANFAX is published monthly, except July and August by the Chicago Section Institute of Electrical and Electronics Engineers for the information of its members. Business Office is at IEEE Message Center—Suite 300, 820 North Orleans Street, Chicago, IL 60610, telephone number (312) 649-2800. Subscription rate for IEEE members collected in dues. \$1.50; others, \$15.00 per year. Third class postage paid at Glen Ellyn, Illinois.

Unless otherwise specified, Chicago Section IEEE neither endorses nor sanctions any positions or actions espoused in SCANFAX.

Bob Hofmann, Editor  
Room 2B 220

AT&T Bell Labs  
2000 N. Naperville Rd.  
Naperville, IL 60566  
(708) 979-3627

James Carroll, Assoc. Editor  
(708) 979-8820

Steven Hofmann, Copy Editor  
(708) 979-4247

Ed Barrett, Advertising Director  
171 Warwick Drive  
Glendale Heights, IL 60139  
(708) 297-5540

*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. We cannot forward this information for you, so please do not send it to the local office or phone direct to: 1-800-678-4333.

## FOX VALLEY SUBSECTION

in a Joint Meeting with

Engineers in Medicine/Biology

**TOPIC:** Recent Trends in Electrical Transducers for Monitoring/Defibrillation and Pacing

**DATE:** Wednesday, April 25th, 1990

**SPEAKER:** William J. Smirles

**PLACE:** Wilton Manor, Schmale Rd., Wheaton

**TIME/COST:** Social: 6:00 p.m. - Cash Bar

Dinner: 7:00 p.m. - \$12.00

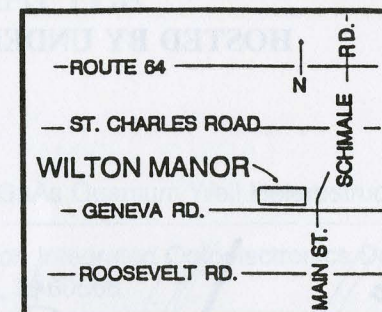
Speaker: 8:00 p.m. - Free

**RESERVATIONS:** Call (312) 649-2800 to make reservations for Dinner and/or Meeting, by **Monday, April 23rd, 1990.**

**TECHNICAL QUESTIONS:** Direct questions about our topic or speaker to John Gavin at (708) 858-7100.

**ABSTRACT:** The speaker will give a review of fundamental standard diagnostic medical amplifiers, and physiological electrode physics. Then, a review of standard monitor, defibrillation and external transcutaneous pacer operations and how they interact with electrical transducers will be discussed. Finally, Mr. Smirles will review a revolutionary new electrode interface system.

**ABOUT OUR SPEAKER:** Mr. Smirles is Director of Technical Services for The Critical Care Products Division of Darox Corporation. A graduate of Northwestern University's Biomedical Engineering program, he specialized in instrumentation. Bill is also a Captain/Paramedic with the Northfield Fire Rescue Department.



## COMMUNICATIONS SOCIETY FACILITY TOUR OF WMAQ-TV

NBC TOWER 454 N. COLUMBUS DR.

WEDNESDAY, APRIL 18, 1990

MEET AT 7:00 pm IN 3rd FLOOR CAFETERIA

TOUR STARTS AT 7:15 pm

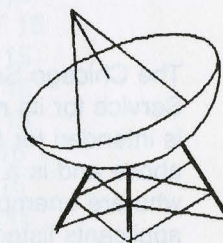
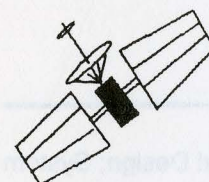
**RESERVATIONS REQUIRED**

**TOUR LIMITED TO 30 PERSONS**

FOR INFORMATION CALL: MAURICE GIVENS (708) 512-7453

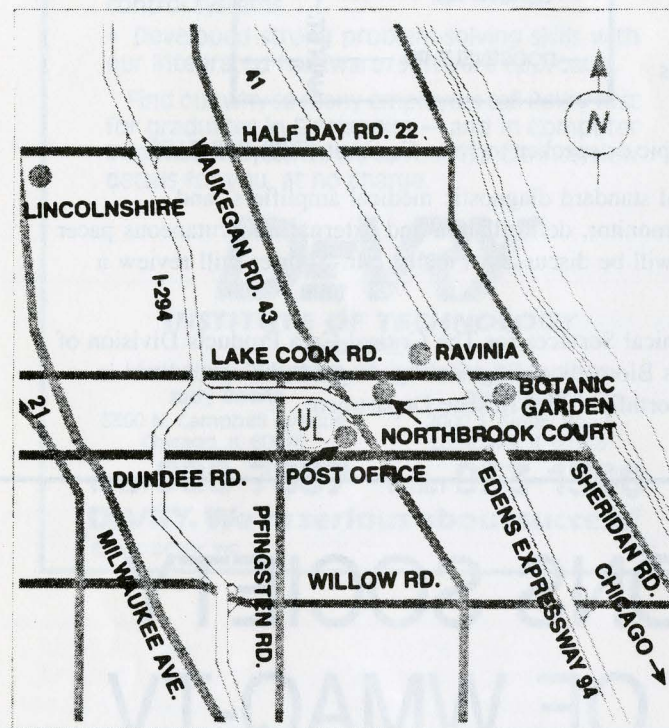
FOR RESERVATIONS CALL: IEEE OFFICE (312) 649-2800

PARKING: SW CORNER OF ILLINOIS AND COLUMBUS



# INDUSTRY APPLICATIONS SOCIETY INDUSTRIAL ELECTRONICS SOCIETY CHICAGO CHAPTER

HOSTED BY UNDERWRITERS LABORATORIES



Presented by: Industry Applications Society  
Industrial Electronics Society  
Chicago Chapter

When: Wednesday, April 11, 1990  
Where: UL's Cafetorium - 2nd Floor, Bldg. 8  
333 Pflugsten Rd. - Northbrook, IL

Event: 1990 National Electrical Code Review

Featured Speaker: Wilford I. Summers, International Association of Electrical Inspectors

Program 5:30 pm - Soft drinks and coffee served  
Timetable: 6:30 pm - Buffet dinner  
7:30 pm - Technical presentation

Enter UL's property at the Southwest corner off Pflugsten Road. Use the visitor's lot to the South of the complex. Enter the reception area at the circle drive.

The cost for refreshments and the buffet dinner is \$12.00. There is no charge for anyone to attend only the technical program. To make your reservation for the buffet call John Kovacik at Underwriters Laboratories (708) 272-8800 Ext. 2972 or the IEEE Office at (312) 649-2800.

Make your plans now!

## IEEE Lasers and Electro-Optics Society

### CHICAGO CHAPTER

DATE: Thursday, April 12, 1990

TOPIC: Growth and Characterization of AlGaAs-GaAs Quantum Well Heterostructure Lasers

SPEAKER: Dr. Robert D. Burnham, Technical Director, Integrated Optoelectronics Devices Group, Amoco Technology Company, Naperville, IL 60566

AGENDA: 5:30 PM Laboratory Tour Semiconductor Growth Facility  
6:30 PM Dinner\*  
7:30 PM Technical Presentation

LOCATION: Amoco Research Center  
Warrenville Rd. & Herrick Rd.  
Naperville, IL

DIRECTIONS: (E-W Tollway heading W)  
Exit at Naperville Rd.  
Left (N) on Naperville  
Left (W) onto Warrenville  
Left into Research Center

\*Entree choices are Prime Rib or Vegetarian Lasagna. Advance dinner reservations should be made by calling the IEEE Chicago Message Center at 312-649-2800 by 12:00 noon on Monday, April 9, 1990. For additional information contact Tom Windhorn at 708-961-7922.

## PLACEMENT SERVICE

The Chicago Section is now offering a Placement Service for its members free of charge. The program is intended for those who are Member Grade and above and is a positive step to help our members who are unemployed. If interested in any of the applicants listed below, call the IEEE office 649-2800 for their name and phone number. If marked "confidential," the applicant will be contacted by the IEEE office so that he/she may contact the prospective employer.

182 BSEE with strong Printed Circuit Board Manufacturing and Test Experience.

183 Manager - Analog and Digital Design; System Design; Project Management

184 Recently Retired With Long Experience Selling Capital Equipment to Steel, Paper, etc. Industries

185 Manufacturing Test Eng. with Communications Design Background seeks Part-Time Evening Emp. MSEE

186 Project Engineer with MBA & CPA - Big 8 Experience - seeking Controller/Sr. Financial Analyst Position

187 Hardware/Software Engineer Telecommunications Industry Pre-Registration

## SCANFAX DEADLINES

| ISSUE | COPY DUE | MAILED ON |
|-------|----------|-----------|
| MAY   | MAR 27   | APR 15    |
| JUNE  | APR 24   | MAY 15    |

THESE ARE FIRM DEADLINES  
FOR ADS AND COPY!!!

| VACATION |         |         |
|----------|---------|---------|
| SEPT     | JULY 24 | AUG 15  |
| OCT      | AUG 28  | SEPT 15 |
| NOV      | SEPT 25 | OCT 15  |
| DEC      | OCT 30  | NOV 15  |
| JAN 91   | NOV 27  | DEC 15  |
| FEB      | DEC 20  | JAN 15  |
| MAR      | JAN 29  | FEB 15  |
| APR      | FEB 26  | MAR 15  |
| MAY      | MAR 26  | APR 15  |
| JUNE     | APR 30  | MAY 15  |

# "TAKING COMMAND OF YOUR FINANCIAL FUTURE"

Guest Speakers: George Whitting, Kent Davis, & Bob Wise,  
SHEARSON, LEHMAN, HUTTON Co.  
Chicago, Il.

Country Funds, Zero's, Strips, ADR's, Futures, Options, Life Accounts, Rights, Warrants, TSA's, Limited Partnerships, Master Limited Partnerships, Muni's, Notes, Bills, stocks and bonds — all part of the language of securities and investing. How can the securities broker help the working engineer invest for his or her financial future? With the gradual elimination of company-defined benefit programs, including vested retirement plans, it is becoming more imperative for the individual to chart a personalized financial future. To know as much as possible about the securities smorgasbord of seductive financial offerings and to choose what is best for yourself is a continuing challenge of the highest order.

There is a dynamic new investment climate taking shape — brought about by population shifts, changed international alignments, technological advances and many other forces. Several areas which will tend to dominate our future include 1) growth of energy needs, 2) waste disposal, 3) rebuilding the U.S. infrastructure, 4) genetic engineering, 5) technological applications to improve productivity and speed up communications.

Please join with us on April 19th to hear how you can take advantage of the upcoming new trends taking place in the world of investing for the 1990's and beyond.

PLACE: MIDWAY MOTOR LODGE  
1600 Oakton St.  
Elk Grove Village, IL

DATE: Thursday, April 19, 1990

SPONSORED BY: IEEE Reliability Society  
Chicago Chapter Meeting

AGENDA: Social — 6:00 PM  
Dinner — 6:30 PM  
Meeting — 7:30 PM

Call IEEE CHICAGO MESSAGE CENTER 649-2800 for reservations  
or Hugh Editors (708) 369-8038

The Chicago Section nominating committee chaired by Joe Feitler met in November to develop a slate of officers for the executive committee for the 1990 - 1991 term. The list of names was published in the February SCANFAX. The slate was discussed at the Feb section meeting. Please mark your choice with an X in the underlined space, or write in a candidates name and place an X to the left of the candidates name.

## OFFICIAL BALLOT

| OFFICE                  | NAME                                    | WRITE-IN                 |
|-------------------------|-----------------------------------------|--------------------------|
| Chairman:               | <input type="checkbox"/> George Stout   | <input type="checkbox"/> |
| Vice-Chairman:          | <input type="checkbox"/> John Truitt    | <input type="checkbox"/> |
| Treasurer:              | <input type="checkbox"/> Barry Brusso   | <input type="checkbox"/> |
| Secretary:              | <input type="checkbox"/> Len Cohen      | <input type="checkbox"/> |
| Member Services:        | <input type="checkbox"/> Robert Tervin  | <input type="checkbox"/> |
| Publications:           | <input type="checkbox"/> Jim Carroll    | <input type="checkbox"/> |
| Professional Activities | <input type="checkbox"/> John Waters    | <input type="checkbox"/> |
| Conferences:            | <input type="checkbox"/> George Thomas  | <input type="checkbox"/> |
| Program:                | <input type="checkbox"/> OPEN           | <input type="checkbox"/> |
| Student Activities:     | <input type="checkbox"/> Cara Lindell   | <input type="checkbox"/> |
| Finance:                | <input type="checkbox"/> OPEN           | <input type="checkbox"/> |
| Special Events:         | <input type="checkbox"/> Henry Korman   | <input type="checkbox"/> |
| Awards:                 | <input type="checkbox"/> Carl Kannewurf | <input type="checkbox"/> |

This is the official election ballot of the Chicago Section of the IEEE. The portion of the ballot containing your signature will be discarded before opening the ballot. Please tear out this page, mark your choices, fold on the dotted lines, affix a 25 cent stamp, and mail to:

IEEE ELECTION  
820 NORTH ORLEANS STREET  
CHICAGO, IL 60610

THIS ADDRESS IS PREPRINTED ON THE REVERSE SIDE

THIS BALLOT MUST BE RECEIVED BY THE IEEE NO LATER THAN APRIL 25, 1990.

SIGNATURE \_\_\_\_\_



## IEEE POWER ENGINEERING SOCIETY

**SPEAKER:** Mr. Michael Quizman  
Cogenel Alsthom, Inc.

**TOPIC:** GAS INSULATED SUBSTATIONS (G.I.S.)

**ABSTRACT:** Gas Insulated Substations have been in service for more than 25 years. The Electricite de France was one of the pioneers in this technology by commissioning 220 kV G.I.S. each, in Lyon and Paris, France. In 1979, GEC Alsthom commissioned the 550 kV G.I.S. at Ontario Hydro's Station in Clairville Station, and the first 800 kV G.I.S. was commissioned on American Electric Power's network at the Joshua Falls Station, Va.

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

**DATE:** April 11, 1990

**TIME:** 11:30 Social, 12:00 Lunch, 12:30 Presentation

Reservations must be made by Monday 4/9/90, 12:00 PM. Reservations may be made by calling the IEEE Chicago message center at 649-2800. Please leave name(s) and company name(s) for those wishing to attend.

### Power and Life

## REMINDER

### FOX VALLEY SUBSECTION in a Joint Meeting with The LASER and ELECTRO-OPTICS SOCIETY

**TOPIC:** Ultrafast Optoelectronics

**DATE:** Wednesday, March 28th, 1990

**SPEAKER:** Dr. David H. Auston

**PLACE:** Wilton Manor, Schmale Rd., Wheaton

**TIME/COST:** Social: 6:00 p.m. - Cash Bar  
Dinner: 7:00 p.m. - \$12.00  
Speaker: 8:00 p.m. - Free

**RESERVATIONS:** Call (312) 649-2800 to make reservations for Dinner and/or Meeting, by **Monday, March 26th, 1990.**

**TECHNICAL QUESTIONS:** Direct questions about our topic or speaker to Dave Schumacher at (708) 510-6471.

IEEE ELECTION

820 NORTH ORLEANS STREET

CHICAGO, IL 60610

25C  
STAMP  
HERE

## ADVANCED TECHNOLOGY IN ELECTRONICS, MICROWAVE, FIBER OPTICS

### □ PRODUCTS CAPABILITY

|                                           |                                                |
|-------------------------------------------|------------------------------------------------|
| Air Duct & Plenum Cable                   | Low Inductance Cables                          |
| Audio Cables (Shielded & Unshielded)      | Medical Electronic Cables                      |
| Back Panel Wire                           | Microwave Cables (Flexible & Semi Rigid)       |
| Coaxial Cable & Triaxial Cable            | Microwave Cable Assemblies (2 to 40 GHz)       |
| Communication Cables                      | Molded Cable Assemblies                        |
| Computer Cables (Shielded & Unshielded)   | Multi Conductor Cables (Shielded & Unshielded) |
| Connectors (Microwave, Fiber Optic & IDC) | MIL-Spec Insulated Wire                        |
| Control Cables                            | Phase Matched Cable Assemblies                 |
| Data Processing Cable (High Speed)        | Point of Sale Cable                            |
| Delay Lines                               | Power Limited Circuit Cable Class 2 or 3       |
| Fiber Optic Cable & Assemblies:           | Power Limited Fire Alarm Cable                 |
| Fiber Optic Adaptors                      | Power Limited Fire Protective Signaling Cable  |
| Fiber Optic Attenuators                   | Process Control Cables                         |
| Fiber Optic Coil Cords                    | Pulse Cables                                   |
| Flexible Cord - SJT, ST, STO, SJTO        | Improved RF Cable & Assemblies                 |
| (UL/CSA) Hospital & Export Cords          | Robotic Cables                                 |
| High & Low Temperature Cables             | RS-232 Interconnect Cables                     |
| Instrumentation Cables                    | Special Impedance Cable (10 to 150 OHMS)       |
| Intercom Cables                           | Thermoplastic Rubber Cable (TPR)               |
| Insulated Wire (UL/CSA)                   | Twinaxial Cable                                |
| Local Area Network (LAN) Cables           | Twisted Pairs (US/CSA)                         |
| Low Capacitance Cables                    |                                                |

### □ MANUFACTURING & ENGINEERING SERVICES

|                             |                                |
|-----------------------------|--------------------------------|
| Color Coding Insulated Wire | Product Development Assistance |
| Custom Molding              | Terminating                    |
| Cut & Strip Insulated Wire  | Testing (DC to 40 GHz)         |
| Engineering Assistance      | Tinning Wire                   |

Fiber Optic Field Service (Including Fusion Splicing and System Testing)

### □ EXPERIENCED SALES & ENGINEERING STAFF

### □ MODERN MANUFACTURING FACILITY



Advanced Technology Group

116 SHORE DRIVE □ HINSDALE, ILLINOIS 60521

□ PHONE (708) 323-9121 □ TWX 910-651-0850 □ FAX 708-323-9398

## THE CHICAGO CHAPTER OF THE IEEE COMPUTER SOCIETY MEETING ANNOUNCEMENT

|           |                                                                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|
| DATE:     | Tuesday, April 24th, 1990                                                                                                                  |
| PLACE:    | Wilton Manor in Wheaton, IL (Geneva Road and Main Street)                                                                                  |
| TIME:     | 6:00 PM – Social Hour (Cash Bar)<br>6:30 PM – Dinner (Reservations required—see below)<br>7:30 PM – Talk (Admission free)                  |
| TOPIC:    | The Knowledge Base Management System (KBMS)<br>AI Corporation's Expert Systems development shell<br>(for IBM Mainframes, PCs, and DEC VAX) |
| SPEAKERS: | Jim Milano, District Manager and Sal Seno, Knowledge Engineer (AI Corporation)                                                             |

Knowledge Base Systems use knowledge — encoded in rules and facts — to describe a problem; then they search for a solution by applying inferencing techniques (a technology which simulates the human reasoning process) to this body of knowledge.

KBMS has been installed by customers involved in manufacturing, insurance, transportation, telecommunications, public utilities, and government; usually KBMS is used for underwriting, scheduling, pricing, routing and distribution, forecasting, marketing, and logistics.

This presentation will include a comprehensive technical overview of KBMS and a live demonstration.

Please make your dinner and/or meeting reservations by April 20, 1990 with IEEE at (312) 649-2800  
Dinner is \$14 per person, but the talk itself is free.

\*\*\*\* If we do not have a sufficient number of people for dinner, \*\*\*\*  
\*\*\*\* we cannot use the meeting room without an extra charge! \*\*\*\*

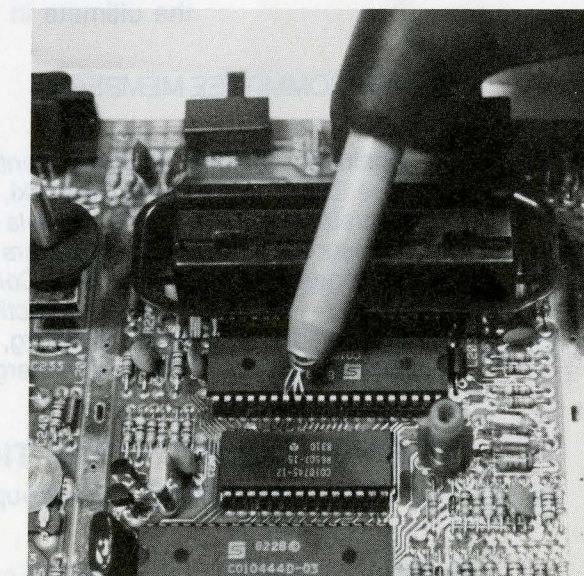
For more information please call Joe Feitler at (708) 505-9100, X277

## YOU CAN'T AFFORD TO BE ZAPPED BY ESD!

Electrostatic Discharge can and does...

- Reach potentials of 25,000 volts!
- Wipe out CMOS chips halting electrical operation
- Alter your input data
- Damage critical components
- "Lock-up" your equipment necessitating extended downtime to rectify the situation

Call DLS today at 708/699-9060 to schedule a quick, conclusive test...we can solve your ESD problems.



10350 Dearlove Road, Glenview, IL 60025 • 708/699-9060

PLEASE POST — INVITE YOUR FRIENDS AND BUSINESS ASSOCIATES



## IEEE RECOGNITION DINNER — 1990

**IEEE**

**DATE :** SATURDAY, APRIL 28, 1990

**PLACE :** WOODFIELD HILTON & TOWERS (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 CHICAGO SECTION

**IEEE Fellow** Dr. Allen Taflove (Northwestern University)  
Dr. P. L. E. Uslenghi (University of Illinois at Chicago)

**Student Awards** (names to be announced)

### THE SOCIAL SCENE

**ENTERTAINMENT** Tom Tremont  
to steal your hearts and lift your spirits (etc?)

**DANCING** Brian Patti and his Orchestra  
the ultimate in music for your dancing pleasure

### DINNER COMMITTEE MEMBERS:

Chairman — Henry Korman, *Gentry Technologies*  
Vice Chairman — Frank Lakowski, *United Chemi-Con*  
Secretary — N R Orszula, *Orszula Associates*  
Treasurer — John Waters, *Waters Associates, Consultants*  
Arrangements — Cara Lindell, *Commonwealth Edison*  
Tickets — Joseph Feitler, *Interactive Systems Corporation*  
Solicitations — Sheldon Isenberg, *Northrop DSD*  
Entertainment — Ray Schulenberg, *Motorola Inc.*

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

(You may plan for your group at tables with 10 people)

by mail — Joe Feitler, Box 72, River Forest IL 60305 (no later than April 20, 1990)

by phone — Joe Feitler at ISC: (708) 505-9100, x277 (no later than April 21, 1990)