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TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

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

Copy Deadline for November Scanfax is September 26, 1988

OCT. 5	High Voltage Polymer Cable	Power Eng. Society	Carson Pirie Scott Corp. Level	Lunch: 12:00 PM Reservations 649-2800
OCT. 11	Photoemissive Probing High Speed Signals	Lasers and Electro-Optics Society	Jerry Sharko's 2225 Ogden Ave. Lisle, IL	Social 5:30 PM Dinner 6:15 PM Meeting 7:30 PM
OCT. 11	Exec. Comm. Meeting	Chicago Section	CCSI 2500 Wisconsin Downers Grove, IL	Meeting 7:15 PM
OCT. 12	Reliable Industrial Power Systems	IAS/IES Chapter	S&C Electric 1800 W. Devon Chicago, IL	Social 5:30 PM Dinner 6:30 PM Meeting 7:30 PM
OCT. 24	Surface Acoustic Wave Devices	AP/MTT Chicago Chapter	Louis' Restaurant 351 E. Lake St. Addison, IL	Social 5:30 PM Dinner 6:30 PM Meeting 7:30 PM
OCT. 26	Emerging Horizons Rehabilitation Engineering	Fox Valley Subsection	Wilton Manor Schmale Road Wheaton, IL	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
NOV. 5	Tour of Argonne National Laboratory	Fox Valley Subsection	Argonne National Labs 9700 S. Cass Ave. Argonne, IL 60439	To Be Announced

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FOX VALLEY SUBSECTION

ADVANCED NOTICE – NOVEMBER TOUR

Topic: Tour of Argonne National Laboratory
Date: Saturday, November 5, 1988
Place: Argonne National Laboratory
9700 South Cass Avenue
Argonne, Illinois 60439
Time: To be Announced Later
Reservations: Call (312) 649-2800 to make reservations.
Your name *and* country of citizenship is required.

ABSTRACT: This tour will be limited to 50 people. Additional details will be available in the November **SCANFAX** or at our October 26th Meeting at Wilton Manor.

Argonne National Laboratory was formed under the Atomic Energy Act of 1946 as a direct offshoot of the World War II Metallurgical Laboratory at the University of Chicago. Today, Argonne is a multi-purpose U.S. Department of Energy research laboratory with primary focuses on basic research in the physical, life, and environmental sciences, and on technology-directed research in fission, fossil and fusion energy, as well as conservation and renewable energy.

Attention: FOX VALLEY SUBSECTION MEMBERS

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Dec	Oct 31	Nov 15
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Feb	Dec 26	Jan 15
Mar	Jan 30	Feb 15
Apr	Feb 27	Mar 15
May	Mar 27	Apr 15
June	Apr 24	May 15

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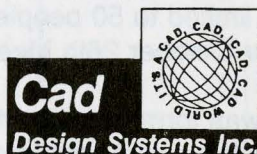


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CHICAGO CHAPTER

1988-1989

PROGRAM KICK-OFF MEETING

Oct. 12, 1988

"RELIABLE INDUSTRIAL POWER SYSTEMS"

Guest Speaker

Daniel J. Love

IAS Distinguished Lecturer

Daniel Love is an independent Consultant specializing in System design and protection for electric utility and industrial applications. He was associated with the Bechtel Power Corporation for the past 19 years. Mr. Love has developed and taught special courses in his field at Bechtel University of Southern California, California State University and for the IEEE Los Angeles Council. He received the BSEE (1951) and MSEE (1956) degrees at the Illinois Institute of Technology and the MBA degree at California State University-Long Beach. He is Fellow of the IEEE and a recipient of the IEEE Centennial Medal.

Mr. Love is a member of the ISA, National Society of Professional Engineers, Society of Fire Protection Engineers and the National Fire Protection Association. He is a Registered Professional Engineer in the states of Arizona, California and Louisiana. He has authored many papers on power system design and protection. He is active in the Industrial and Commercial Power Systems Department of the IAS and is Secretary of the Power Systems Protection Committee.

LOCATION

S & C Electric
1800 W. Devon
Chicago, IL

TIME

5:30 Refreshments
6:30 Dinner
7:30 Speaker



Reservations

Reservations are required for dinner seating and reservations are highly recommended to assure seating for those who wish to attend the technical portion of the meeting only. The cost of the dinner is \$13.00. There is no charge for those attending the technical meeting only. Guests are welcome. Please call the IEEE office at 649-2800 by Oct. 10th for reservations.



IEEE Lasers and Electro-Optics Society



CHICAGO CHAPTER

SLATE OF OFFICERS

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**** Volunteers are currently sought for each of these positions;
please call any of the above officers if interested.



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FOX VALLEY SUBSECTION

- Topic:** Emerging Horizons in Rehabilitation Engineering
- Date:** Wednesday, October 26, 1988
- Speaker:** Charles J. Robinson, D.Sc., P.E.
- Place:** Wilton Manor, Schmale Rd., Wheaton
- Time/Cost:** Social: 6:00 p.m. - Cash Bar
Dinner: 7:00 p.m. - \$11.00
Speaker: 8:00 p.m. - Free
- Reservations:** Call (312) 649-2800 to make reservations for Dinner and/or Meeting, **by Monday, October 24, 1988.**

Abstract: The lack, loss, or diminution of sensation and/or control of movement due to congenital or traumatic insult to the peripheral or central nervous system often results in a less than satisfactory quality of life for the individual affected. With apologies to Luke 4:18, the products of rehabilitation engineering can be used to help the lame to "walk," the deaf to "hear," the mute to "speak," and the blind to "see," all by artificial means. The question of quality of the "walking," "hearing," "speaking," and "seeing," as well as the cost-benefit trade-offs must be discussed simultaneously with a description of the various aids and technologies.

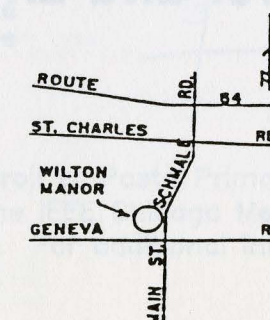
About Our Speaker: Charles J. Robinson (S'67-'71, M'71-'74, S'75-'79, M'79-'81, SM'82) was born in Wheeling, WV on July 16, 1947. He received a D.Sc. degree in Electrical Engineering from Washington University in St. Louis. Dr. Robinson is currently the Associate Director of the Veterans Administration Rehabilitation R&D Center at Hines, IL. He serves as the IEEE EMBS Vice President for Technical and Conference Activities and as an Associate Editor for the *IEEE Transactions on Biomedical Engineering*. He is a registered professional engineer in the state of Ohio.

Attention: FOX VALLEY SUBSECTION MEMBERS

There will be no separate mailing to announce this program. Henceforth, please use **SCANFAX** exclusively for information on our Monthly Meetings.

NEW DINNER RESERVATION NUMBER:

(312) 649-2800





POWER ENGINEERING SOCIETY

MEETING NOTICE

LUNCHEON MEETING

WEDNESDAY, OCTOBER 5, 1988

- Speaker:** William (Bill) Mathis
Manager-High Voltage Cable Division
BRUGG CABLE PRODUCTS, INC.
Houston, Texas
- Topic:** HIGH VOLTAGE POLYMER CABLE UPDATE
- Abstract:** Polymer cable for high voltage and even EHV applications is now available for many applications. How can cross-linked polyethylene be used for 115 kV through 230 kV transmission lines when XLPE has had very poor service history at distribution voltages of 15 kV through 35 kV? The presentation will describe manufacturing techniques and quality control that can produce high voltage cable with a zero failure rate, to date.
- Speaker:** Mr. Mathis graduated from Louisiana Tech with a B.S. in Electrical Engineering in 1968. He began his career with The General Electric Company and had various positions including a one year period with Electric Utilities Engineering Operations in Schenectady. He has had various sales and marketing positions with Ohio Brass, McGraw Edison, and Joslyn Corporation. Mr. Mathis joined Brugg Cable Products, Inc. in 1988, in his present position. He has been a member IEEE since 1968.
- Place:** Carson Pirie Scott
Corporate Level
Cost \$11.50 per person

Power and Life



IEEE Lasers and Electro-Optics Society



CHICAGO CHAPTER

- DATE:** Tuesday, October 11, 1988
- TOPIC:** Photoemissive Probing of High-Speed Signals
- SPEAKER:** Dr. Robert B. Marcus, Bell Communications Research

ABSTRACT

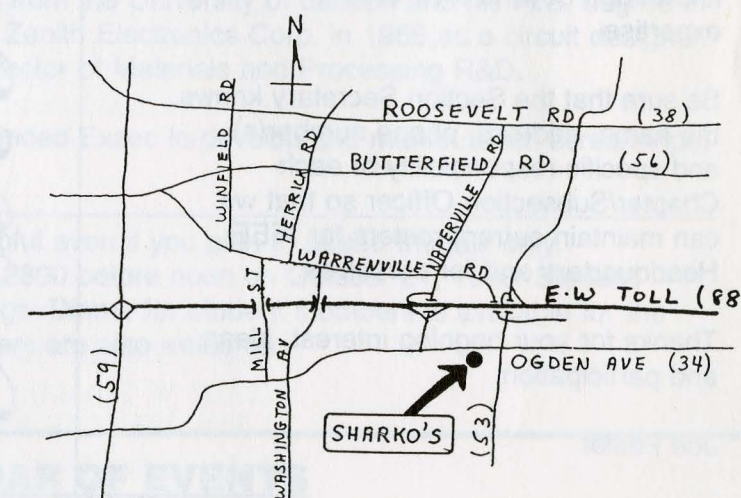
A number of laser and electron beam methods have been developed for high temporal and spatial resolution contactless testing of high-speed (ps) signals. This talk reviews the field of photoconductive, electro-optic, charge density, electron beam and photoemissive probing, with major emphasis on the photoemissive method. Photoemissive probing has been developed at three laboratories, using single-photon photoemission with photon energy greater than 4.6 eV or three-photon photo emission with red light. Voltage sensitivity of 10 mV and a temporal resolution of 5 ps have been demonstrated to date, with performance expected to be significantly better as development continues.

- Social/Business Meeting: 5:30 PM (Cash Bar)
Dinner: * 6:15 PM (\$13.00 Per Person)
Technical Presentation: 7:30 PM (No Charge)

LOCATION: Jerry Sharko's
2225 Ogden Avenue
Lisle, IL (852-4500)

DIRECTIONS (E-W tollway heading W):

Exit at 53 South
Take 53 South to Ogden Avenue
Right (West) onto Ogden Avenue
Left into Sharko's Parking Lot



- * Entree choices are London Broil or Pasta Primavera. Advance dinner reservations should be made by calling the IEEE Chicago Message Center at 649-2800 by October 10, 1988, 5:00 p.m. For additional information, contact Tom Windhorn at 961-7922.

SECTION CHAIRMAN'S MONTHLY REPORT

Our team of new/continuing Section Officers, Executive Committee members, and Subsection/Chapter Officers are working hard on our meeting plans and related activities. Since each of us is trying to do too much, we would like to invite our newer – perhaps younger – members to volunteer for a more active role in our activities: Just tell any incumbent Section Officer or Committee member about your interest. For example, our SCANFAX editor, as well as the Section Membership Services, Program, Professional Activities, Conference, Recognition Dinner, 1989 MIDCON, and all other committees will welcome your inputs and active participation. We also need some "computer-literate" members to work with the PC-based membership files and Section Accounting System. Furthermore, each of the Chapters and Subsections is looking for interesting program ideas, committee chairpeople, and future Officers.

We will try to organize an all-day Officer's Workshop in late October to exchange ideas on improving our communications within the Section and to demonstrate the capabilities of our Section PC. Other interested members are invited, but we will need an advance reservation from all of you ASAP to make suitable plans.

There is an upcoming election for "transnational" Officers and for Directors to represent both the technical and administrative facets of IEEE. Therefore please read the relevant announcements to cast your important vote intelligently. According to the rules, our Section cannot endorse any candidate since we foresee no timely opportunity to have these candidates present their respective ideas and opinions personally on an "equal access" basis. But be sure to let your vote count: Your choice may win just because you voted and also convinced your professional associates that your choice is best for IEEE, our Section, and you, our member!

Please remember to use our new IEEE Message Center (649-2800) for any necessary and timely reservations for our events. Other questions posed to this service normally will be referred to a Section Executive Committee member since such answers would involve knowledge beyond their area of expertise.

Be sure that the Section Secretary knows the name, address, phone number(s), and specific responsibility of each Chapter/Subsection Officer so that we can maintain current rosters for IEEE Headquarters and for ourselves.

Thanks for your ongoing interest, ideas, and participation.

Joe Feitler

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OCTOBER 1988 MEETING NOTICE

PRINCIPLES AND RECENT APPLICATIONS OF SURFACE ACOUSTIC WAVE DEVICES

By Terence J. Knowles
President of Exzec Corp., Evanston, IL

Date:	Monday, October 24, 1988	Time:	
Place:	Louis' Restaurant	Social:	5:30 PM
	351 E. Lake St.	Dinner:	6:30 PM
	Addison, IL	Meeting:	7:30 PM

(First traffic light West of Route 53)

Abstract:

In the past twenty years surface acoustic wave devices have become indispensable elements for a wide range of signal processing applications. This is because the interaction of surface waves with electrical, optical and mechanical excitation can result in device properties that are unique or difficult to simulate effectively by other means.

The operating principles of SAW devices will be reviewed and several recent applications discussed.

Speaker:

Terence Knowles received his B.S. degree from the University of London and his M.S. degree in Physics from DePaul University. He joined Zenith Electronics Corp. in 1966 as a circuit designer. His most recent position with them was Director of Materials and Processing R&D.

In the Spring of 1988 he left Zenith and founded Exzec to develop and market touch screen input systems for personal computers.

The dinner is optional. A reservation is helpful even if you plan to attend the talk only. Reservations may be made by calling 649-2800 before noon on October 21, 1988. Student members are encouraged to attend meetings. Dinner for student members is available for the minimal charge of \$1.00. Non-IEEE members are also welcome.

CALENDAR OF EVENTS

Continued from front cover

NOV. 8	Exec. Comm. Meeting	Chicago Section	CCSI 2500 Wisconsin Downers Grove, IL	Meeting 7:15 PM
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