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CALENDAR OF EVENTS

For reservations call the IEEE office at 236-4609

(unless otherwise indicated)

COPY DEADLINE: FIRST WEEK OF MONTH PRIOR TO PUBN.

MAR.	8	Monthly Meeting ALL WELCOME	IEEE Executive Cte.	TO BE DETERMINED (Call Eleanore at IEEE office for location)	Meeting 7:30 PM
	8-4/19	(Continuing) - 2nd Certification Re- freshers Course	Reliability Soc. (Call Hugh Edfors, 369-8038)	College of DuPage	10 weeks 7:00 PM--9:30 PM
	9	"Electronic Power Factor Controllers"	Industry Appls./ Industrial Elec- tronics Soc.	Nielsen's Village 7330 W. North Ave. Elmwood Park	Social 5:30 PM Dinner 6:15 PM Meeting 7:15 PM
	9	"Protection Relays"	Power Engrng. Soc.	Carson Pirie Scott Wabash & Monroe Sts. Highland Rm., 8th Fl.	Social 11:30 AM Lunch 12:00 PM Meeting 12:30 PM
	14	Tour - Illinois Tollway Telecom. Facilities	Vehicular Tech. Soc. (Call Jerry Underwood, 576-2747)	IL Toll. Admin. Bldg. 2001 W. 22nd St. Oak Brook	Tour 6:30 PM
	15	Tour/Meeting CORCOM	Electro. Computa. Soc. (Call Bob Hofmann, 979-3627)	1600 Winchester Rd. Libertyville	Tour/Mtg. 7:30 PM
	15-17	Electri '83 Expo.	Electric Assn.	McCormick Pl., Mall Level	2:00 PM--9:00 PM
	16	"The 16 Bit Desk-Top Computer"	Northwest Sub. (j/w Electron Devices Soc.)	Mr. Peter's Banquets 1018 Mt. Prospect Plaza Rand & Central Rds.	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
	21	"Integrated Optics"	Antennas & Prop./ Microwave Theory & Techniques Soc.	Louis Restaurant 351 E. Lake St. Addison	Social 5:30 PM Dinner 6:30 PM Meeting 7:30 PM
	22	"Improving the Relia. of Electron. Switching Systems"	Reliability Soc.	Holiday Inn 17W350 - 22nd St. Oak Brook Terrace	Social 5:30 PM Dinner 6:30 PM Meeting 7:30 PM
	23	"Videotex & Teletext"	Communications Soc.	Holiday Inn 17W350 - 22nd St. Oak Brook Terrace	
	30	"Radio Astronomy"	Fox Valley Sub.	Wilton Manor Geneva & Main Sts. Wheaton	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
APR.	11	Tour - FAA Chicago O'Hare Operations	Vehicular Tech. Soc.	O'Hare Control Tower (See their 3/14 list.above for res.contact)	Tour 6:30 PM
	12	Monthly Meeting	IEEE Executive Cte.	To be determined	Meeting 7:30 PM
	13	Student Night	Indus. Appls./IES	To be determined	
	13	"Bridge Controls, Chicago River"	Power Engrng. Soc.	Carson Pirie Scott (See their 3/9 list.above for loca.& time)	
	16	Tutorial Seminar - "Local Area Networks & X.25"	Communications Soc. (Call Dr. Narisa Chu, 979-3999)	Bell Laboratories Auditorium Naperville	9:00 AM--3:00 PM
	18	"Freq. Selec. Surf."	Anten. & Prop./MTTS	(See their 3/21 list.above for loca.& time)	
	18-20	American Power Conference	IEEE Power Engrg. Soc. IIT & 8 other Soc.	Palmer House State & Monroe, Chicago	(Inf. R. Armington 567-3406)
	19	Workshop "Program- mable Controllers"	Power Engrng. Soc.	Palmer House (In conjunction w/American Power Confer.	
	23	MAC '83 Midwest Acoustics Conference	Audio Engrng. Soc., Chgo. Acous. & Audio, CRC of ASA & IEEE	Ill. Inst. of Tech. Hermann Hall, 3241 S. Federal St., Chicago	9:00 AM--5:30 PM (Call Ted Staniec, 455-3600)
	23	Recognition Dinner	IEEE Chicago Sec.	(See pg. 5 for full particulars & res.form)	
	27	"Fuel Cell"	Fox Valley Sub.	(See their 3/30 list.above for loca.& time)	

CHICAGO SECTION OFFICERS/EXECUTIVE COMMITTEE NOMINATIONS

Nominations for the IEEE Chicago Section officers and executive committee members for the 1983-84 term are: OFFICERS — Chairman, William Everson; Vice Chairman, George Thomas; Treasurer Henry Korman; Secretary Norbert Orszula. EXECUTIVE COMMITTEE — Frank Bellucia; Keith Klontz; Doug Smith; George Stout; Terence Sumner; John Tyner; John Waters; Howard Wolfman.

NORTHWEST PRESENTING "THE 16 BIT DESK-TOP COMPUTER" —

At the March 16 meeting of the Northwest Subsection, joint with Electron Devices Society, Jacques Andersen, President of Wintex Computer Corporation will discuss the state-of-the-art in desk-top computer design and will demonstrate his new model MT86 computer. This computer system incorporates 2MB of drive and 256k RAM which are expandable, respectively to 32MB and 1024k. The system is self-diagnostic and the components are checked each time the system is started. It features a tape back-up which precludes the loss of data for any reason and 10 communication ports enabling daisy-chaining of up to 16 terminals at a rapid baud rate.

Len Cohen, Northwest Subsection Chairman urges that you make reservations early. Bring your wife or a friend and have an informative evening with colleagues from the Chicago area.

The dinner cost for IEEE members/guests is \$9.00 each; IEEE student members pay only \$1.00 each. See Calendar of Events for meeting location and time.

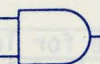
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Change of Address

A change of address form is included in each issue of SPECTRUM. Your local post office will also supply you with cards; mail to Roseann Schulz, Member Services, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. Include your SPECTRUM mailing label if possible. We cannot forward this information for you, so please do not send it to the local office.

"POSTMASTER: send address changes to: Roseann Schulz, Member Services, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854."

LOCATION CHANGE FOR EXECUTIVE COMMITTEE —

The IEEE Chicago Section Executive Committee is in the process of finding a new location for their monthly meetings. They had been held at the offices of Brown & Root in Lombard.

For location of the March 8, 1983 meeting, call Eleanore Burda at the IEEE office, 236-4609.

CONDOLENCES to the family of Robert Loewe who passed away recently.

Mr. Loewe was a Life member of the IEEE also a past chairman of the Industry Applications/Industrial Electronics Society in Chicago. He will be missed.

Professional Activity

UPDATE

PROFESSIONAL SOCIETIES URGED TO SHARPEN THEIR SKILLS ON FEDERAL SUPPORT — As the budget cycle for FY 1984 gets under way, the engineering and science communities are being reminded of their responsibility to "make a convincing case for R&D" to Federal budget-makers and to Congress. At the same time they are being told — by the American Association for the Advancement of Science — that the scientific and technical communities, in and out of government, must face up to the prospect of continuing restraints on R&D that are being projected in the five-year budget outlook. The AAAS assessment of R&D in the 1983 budget is contained in a 148-page report issued January 18. IEEE (through the R&D Committee) was one of the sixteen professional/technical societies that participated in the AAAS budget effort. The AAAS judgment is that Congress treated R&D "generally very well" in 1982 and that three civil agencies — NASA, the National Institute of Health, and the NSF — received increases that "will provide for significant growth" in R&D.

The Administration's policy of giving defense R&D higher priority than civil research efforts is unchanged, as evidenced by a statement on January 19 by the Secretary of Commerce. Secretary Baldrige protested Congressional cutbacks in independent R&D by defense contractors (a reduction imposed in the continuing resolution on the '83 budget). The pro rata allowability of independent R&D costs represents "an indirect boost to increased R&D investment," Baldrige said. "Putting statutory limits on the Government's participation in independent R&D expenses incurred by contractors may result in a decline in independent R&D, an important source of new and innovative ideas," Baldrige said. "We must be careful that we do not erect new barriers to R&D investment as we remove others."

VTS TO TOUR ILLINOIS TOLLWAY FACILITIES —

An invitation is being extended by the Vehicular Technology Society to participate in a tour of the Illinois State Toll Highway Authority, Telecommunication Facilities in Oak Brook on March 14. The tour will be conducted by Jack T. Watson, Manager, Telecommunications Department. Mr. Watson is responsible for the operation and maintenance of an extensive microwave network, communication dispatch centre, data processing operation which includes a complex computer aided dispatch system.

The tour will cover the Toll Roads computer aided dispatch/computer room, the radio dispatch operations centre, microwave hub and mobile shop. For those interested in 800 MHz, the Toll Road is in the process of implementing the country's largest conventional 800 MHz land mobile radio system.

Mr. Watson is a pioneer in 800 MHz system design and will entertain discussion on his operation and the 800 MHz. This is a rare opportunity to examine a complex and well run public telecommunications operation. Make reservations today! See Calendar of Events for location and tour time.



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COMMUNICATIONS SOCIETY PRESENTING A TUTORIAL SEMINAR - The Communications Society, on April 16, will present a tutorial seminar on "Local Area Networks & X.25." Instructors will be Mr. W. P. Lidinsky, Supervisor, Bell Laboratories and Dr. Narisa N. Y. Chu, member of the Technical Staff at Bell Laboratories. Dr. Chu is Chairman of the Chicago Communications Society. The fee is \$50.00 for IEEE members and \$70.00 for non-members, which includes lunch. Checks are to be made payable to the Chicago Communications Society and mailed to: Dr. Daryl Eigen • Bell Laboratories • Naperville/Wheaton Rd. • Naperville, Illinois 60566. For details, contact any one of the following committee officers: Dr. Narisa Chu (979-3999), Terence Sumner, P.E. (576-5382) or Dr. Daryl Eigen (979-5353). See Calendar of Events for location and time.

CALL FOR PAPERS ISSUED FOR 1984 IEEE/PES TRANSMISSION & DISTRIBUTION CONFERENCE - Mr. Walter J. Ros, Technical Program Chairman for the 1984 IEEE/PES Transmission and Distribution Conference has issued a call for papers to be presented and discussed during the technical sessions of the Conference which will be held in conjunction with the IEEE/PES Exposition at Bartle Exposition Hall in Kansas City, Missouri April 29 - May 4. Its theme will be "New Horizons," which is a logical extension of the previous conference's discussion of "The Impact of Change on Tomorrow's Transmission and Distribution Systems." The scope of the Conference includes: Insulated Conductors, Power Systems Communications, Power Systems Engineering, Power Systems Instrumentation and Measuring, Power Systems Relaying, Substations, Surge Protective Devices, Switchgear, Transformers, and Transmission and Distribution.

This Conference will be part of the centennial celebration of the IEEE which, since its founding in 1884, has grown to be the *largest technical society in the world* with some 200,000 members worldwide. The deadline for receipt of the author's Declaration of Intent is July 1, 1983 and deadline for receipt of original manuscripts is November 4, 1983. Prospective authors should request an author's kit from IEEE Headquarters, PES Special Activities, 345 East 47th Street, New York, New York 10017. The Declaration of Intent form should be completed and mailed at the earliest possible date so that preliminary plans may be made to include the paper in the technical program. The technical paper selection and publication plan will be consistent with that used for the Winter and Summer Power Meetings. Review of the paper by the appropriate technical committee is required prior to final acceptance.

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1983 RECOGNITION DINNER

The Chicago Section will hold its 1983 Recognition Dinner on Saturday - April 23, 1983 at The Lancer Restaurant in Schaumburg. This is our way of recognizing members of the Chicago Section who have made outstanding contributions to the electrical and electronics engineering profession.

The success of the Dinner depends largely on the efforts of the Dinner Committee members and the cooperation of the electrical and electronics companies in the Chicago area who support this annual activity, and, most important of all, *YOUR* attendance. An excellent entertainment package and dinner will be provided. Tickets are \$20.00 each (no price increase from last year). Make your reservations early!

Dinner Committee members are: **CHAIRMAN**, DAN PITTENGER, Zenith Radio Corporation; **VICE CHAIRMAN**, WILLIAM WILTSE, JR., Allen-Bradley Company; **SECRETARY**, FRANK LAKOWSKI, United Chemi-Con Inc.; **TREASURER**, TREVOR HINCHLIFFE, Flolo Electric Company; **PUBLICITY CHAIRMAN**, JIM MARCOULLIER, Englewood Electrical Supply Company; **TICKETS/ARRANGEMENTS**, JOE TANNEY, United Chemi-Con Inc.; **PROGRAM CHAIRMAN**, DON SMITHANA, Kyocera, International. The Solicitation Committee consists of: **CHAIRMAN**, CHRIS ZIOLA, Zenith Radio Corporation; **GAYE SWANSON** and **LORI RABIN**, both with BECO Inc. The **INSTITUTIONAL CO-ORDINATOR** is ANDY GASIOROWSKI of Allen-Bradley Company and **CHICAGO SECTION SPECIAL EVENTS CHAIRMAN** is GEORGE STOUT of GPE Controls.

Date SATURDAY - APRIL 23, 1983

Time 6:00 P.M. (COCKTAILS) 7:00 P.M. (DINNER) 8:30 P.M. (ENTERTAINMENT)

Place THE LANCER RESTAURANT 1450 E. ALGONQUIN ROAD SCHAUMBURG, ILLINOIS

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Enclosed is my check in the amount of \$ _____ covering _____ tickets at \$20.00 each (\$40.00 per couple) for the 1983 IEEE Recognition Dinner at The Lancer Restaurant in Schaumburg.

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"IMPROVING THE RELIABILITY OF ELECTRONIC SWITCHING SYSTEMS" ON MARCH 22 - The public expectation is generally that the telephone service will be available on demand. This expectation has been sustained by previous experience with electromechanical systems, and more recently, with the Electronic Switching Systems. It is most unlikely that the customer will accept any less capability in the future.

Thus, driven by new technology to higher system performance - more capacity, faster operating speeds, new features at lower or steady cost - electronic switching systems must meet exacting availability demands at high reliability. In this talk, presented by the Reliability Society, the design of large switching systems using components or modules that are susceptible to failure while we are striving for high reliability will be discussed. Also to be discussed, will be the use of redundant and distributed architecture to obtain systems that are fault tolerant and capable of operating in a gracefully degraded mode. The improvement in the reliability of a switching system will be shown to rely on the optimal trade-offs between hardware and software costs.

Speaker at the March 22 meeting will be Michael I. O. Ero. Mr. Ero is an employee of the Bell Telephone Laboratories where he is a Physical Designer in the program developing the Bell System's Local Digital Switch. He was previously involved in the optimal thermal design of switching systems and in the evaluation of the impact of environmental stresses on electronic switches. His present assignments include electronic switch reliability and field tracking of first office applications.

VTS TO TOUR FAA CHICAGO O'HARE OPERATIONS - On April 11, the Vehicular Technology Society will tour the FAA Chicago operations of the Control Tower at O'Hare Airport. The tour is limited to only 40 participants and reservations are essential! Call Jerry Underwood at 576-2747 for reservations and further information.

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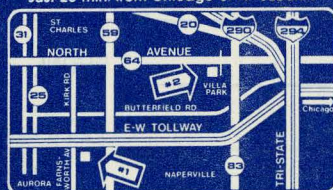
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