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CALENDAR OF EVENTS

For reservations call the IEEE office at 236-4609

(unless otherwise indicated)

COPY DEADLINE: NO LATER THAN THE 25th OF THE MONTH

NOV. 8	Monthly Meeting - ALL WELCOME	IEEE Executive Cte.	McDonald's Plaza NE corner McDonald Dr. at 22nd, Oak Brook	Meeting 7:30 PM
8	"Advances in Compiler Technology"	Computer Society (For reser., John North, 260-4692)	Standard Oil Bldg. 200 E. Randolph Dr. 2nd Fl., Chicago	Social 5:30 PM Dinner 6:30 PM Meeting 7:30 PM
9	"1984 National Electrical Code Revision"	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	"Electronics in the Power Industry"	Power Engrng. Soc. (Special student interest presen.)	Carson Pirie Scott Wabash & Monroe Sts. Highland Rm., 8th Fl.	Social 11:30 AM Lunch 12:00 PM Meeting 12:30 PM
12	Tutorial - UNIX	Computer Society (For reser., John North, 260-4692)	Western Electric Co. 2600 Warrenville Rd. Lisle	9:30 AM--4:00 PM (Members \$15.00 Non-mbrs. \$20.00)
12	Seminar - "Personal Financial Planning"	Communications Soc. (For inf./regis., D. J. Eigen, 979-5353)	Indian Lakes Resort 250 W. Schick Rd. Bloomington	9:00 AM--2:00 PM
14	"Microwave Mixers: How to Minimize Spurious Response"	Antennas & Prop./ Micro. Theory & Techniques Soc.	Louis Restaurant 351 E. Lake St. Addison	Social 5:30 PM Dinner 6:30 PM Meeting 7:30 PM
15	Tour - IIT Research Institute	Electro.Compa.Soc. (For reser., Bob Hofmann, 979-3627)	10 W. 35th St. Chicago	Tour 7:30 PM
15	Seminar - "Electro- static Discharge Awareness"	Reliability Soc. (For reser., Hugh Edfors, 369-8038)	Holiday Inn 22nd St. (Cermak Rd.) Oak Brook	Social 5:30 PM Dinner 6:30 PM Seminar 7:30 PM
30	"Intelligent Tele- phones: New Direc. in Consumer Facili."	Fox Valley Sub.	Wilton Manor Main St. at Geneva Rd. Wheaton	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
DEC. 7	"Is Software (Quality) Measurable"	Computer Society (For reser., John North, 260-4692)	Wilton Manor Main St. at Geneva Rd. Wheaton	Social 5:30 PM Dinner 6:30 PM Meeting 7:30 PM
7	"Distributed Control in Plant Modernization"	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
10	Seminar - "Principles of Machine Vision"	Industry Appls./ Industrial Elec- tronics Soc.	To be determined	
13	Monthly Meeting - ALL WELCOME	IEEE Executive Cte.	McDonald's Plaza NE corner McDonald Dr. at 22nd, Oak Brook	Meeting 7:30 PM

"Member Recruit a Member" campaign details on back page

ATTENTION STUDENTS! - Students taking electronics, control systems or computer classes, are you wondering what you can do with that knowledge in the real world? Mr. Lee Kelleher from Westinghouse will be presenting a talk on computer applications in power production at the November 9 meeting of the Power Engineering Society.

Find out current career opportunities in the power field and talk to engineers already in this exciting work. Lunch costs only \$2.00 for students and the program is free. For further information, contact Cara Lindell, 379-5050, extension 248.

INDUSTRIAL ASPECTS OF THE NEW 1984 NATIONAL ELECTRICAL CODE - The Industry Applications/Industrial Electronics Society is conducting a meeting on November 9 on the industrial aspects of the new 1984 National Electrical Code. The new Code was adopted in May 1983 and is of vital interest and importance to anyone working in the electrical field. The new Code contains the following new articles in addition to numerous revisions: Integrated Gas Spacer Cable; Electrical Non-metallic Tubing; Office Furnishings; Solar Voltaic Systems; Optical Fiber Cables.

The speaker, W. I. Summers, Executive Director, International Association of Electrical Inspectors is a recognized expert on the Code.

The meeting is open to all interested persons. You need not be an IEEE member to attend. The dinner cost for members is \$12.50 and \$13.50 for non-members. There is no charge to attend the meeting only. Reservation deadline is November 1.

THE EXPLOSION OF TECHNOLOGY available to both the residential consumer and the business user of telephone equipment will be the focal point at the November 30 meeting of the Fox Valley Subsection. Mr. Doug Huebner, Project Manager with GTE Business Communications Systems, headquartered in Northlake (Illinois), will provide an insider's view of the recent developments in telephone equipment and some projections on where the emerging technologies may soon lead. His topic, "The Intelligent Telephone -- Current and Near-term Developments in Telephone Technology."

Mr. Huebner is a ten-year veteran of project leadership assignments with GTE, having worked on data switching applications and on advanced telephone instruments. His previous communications experience included work at Bell Laboratories in Whippany, New Jersey under the aegis of a mainframe manufacturer. His academic credentials include a B.S. in mathematics from the University of Wisconsin at Oshkosh and a Master's degree in management science from Stevens Institute.

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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.

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See Calendar of Events
for meeting location/time.

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RELIABILITY SOCIETY TO PRESENT SEMINAR - An "Electrostatic Discharge Awareness" Seminar will be presented by the Reliability Society on Tuesday, November 15 at the Holiday Inn in Oak Brook. A static analyst with 3M, Larry O'Neill will be guest speaker.

Presentations of device susceptibility, recommended practices and other related information will be given. Several demonstrations involving packaging materials and static control products will be shown along with a question/answer period.

Social hour with cash bar will begin at 5:30, dinner (optional - \$12.75) at 6:30, followed by the seminar at 7:30 P.M. Non-members are welcome. Students with IEEE identification pay \$1.00 for dinner. Reservation deadline is November 10. Don't delay!

COIL WINDING '84 EXPO - The International Coil Winding Association will present the Coil Winding '84 Exposition, November 13-15, 1984 at the O'Hare Exposition Center in Rosemont.

Exhibitors will include manufacturers of coil winding equipment, electric motors, production equipment, test instruments, materials and components.

A special conference program will cover new technologies, current problems, productivity improvements as well as cost effectiveness.

Manufacturers, suppliers and end-users are invited to secure additional information on exhibiting or attending the Exposition from Eileen Oswald, Show Manager at (312) 299-9311.



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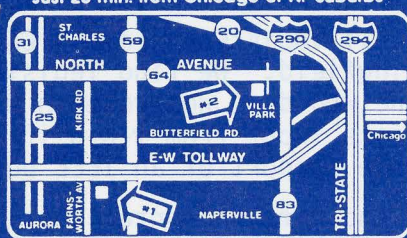
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—Adv—

LEST YOU FORGET — The Communications Society will present a "Personal Financial Planning" Seminar on Saturday, November 12 at Indian Lakes Resort in Bloomingdale from 9 A.M. to 2 P.M.

Topics are: • Stock Market Investment (Market Analysis, Investment Rules, Choosing an Advisor, Protection Against Inflation); • Commodities & Options Trading; • Current Tax Planning (Tax Shelters, Interest Free Loans, Compensation Techniques); • Estate Planning; • Real Estate Investment (Tax Advantaged Real Estate).

Representatives from Dean Witter Reynolds, Inc., Prudential Bache Securities, Arthur Andersen & Company, Rosenthal & Schanfield Law Offices and I.R.E. Securities will be present.

For information/registration, contact D. J. Eigen at 979-5353.

Registration deadline is October 31, so don't delay — the time is now!

"MEDICAL INSTRUMENTATION & PATIENT CARE" will be presented by the Fox Valley Subsection on October 26. The electronic technology explosion of recent years has made possible increasingly sophisticated medical instrumentation. Guest speaker, Kenneth Tobacman, Director of Biomedical Engineering at Grant Hospital in Chicago will describe some of the changes which have taken place in medical instrumentation, the impact these changes have had on patient care, and the direction of future developments in equipment.

Mr. Tobacman's presentation will cover the development of patient monitoring systems to their present multi-variable state. He will also review developments in diagnostic imaging and will touch on other types of instrumentation. His academic credentials include a degree in Clinical Engineering, is currently President-Elect of the Clinical Engineering Management Society in Chicago and is Chairman of the Continuing Education area for the Midwest Biomedical Society.



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UPDATE

WHY WE NEED YOUR HELP - In the early 1970's, the IEEE established the U.S. Activities Board whose purpose is to be concerned with the Professional Activities of IEEE members in the United States. The USAB resulted from a change in perspective of the IEEE Board of Directors influenced by members needs.

A cutback in federal funding of the space program in the late sixties after our successful moon landing caused displacement and unemployment for many IEEE members. This was a condition most members had not experienced and they made the IEEE leaders aware that limiting IEEE services to technical engineering matters only was not sufficient for the members needs. Having knowledge and proficiency in the latest state of the art and not having employment to implement that knowledge is a very frustrating experience.

The IEEE USAB did not turn the economy around to create employment for all EE's, but it did in many small ways begin to work with legislators to improve conditions for the membership. Notable examples are the Services Contract Act and in the effort to get portable pensions, the IRA we can use today.

The USAB established the Professional Activities Committee as the liaison with the local sections. This acronym, PAC, was later changed to PACE - Professional Activities Committee for Engineers because of confusion in associating PAC with a Political Action Committee which has undesirable connotations to some members.

The Chicago Section is a member of the Illinois Engineering Council which works with the ISPE to influence legislation in Springfield. We find legislators are more likely to listen to a constituent than to someone who does not vote in his district. With this thought in mind, your PACE Chairman requests input from y-o-u if you will personally contact your Representative or Senator to urge support of an IEEE position on legislation.

Send your name, address, phone number and name of contact to: John Waters, Chicago Section PACE Chairman • c/o IEEE • 125 South Clark Street, Room 1545 • Chicago, IL 60603. **We need y-o-u-r help.**

H. BARON WHITAKER TO RECEIVE 1984 STEINMETZ AWARD - At the Industry Applications Society Annual Meeting to be held in Chicago September 30-October 4, 1984 at the Palmer House, H. Baron Whitaker, Consultant to the President of Underwriters Laboratories, Inc. will receive the 1984 Charles Proteus Steinmetz Award. The Award is given for major contributions to the development of standards in the field of electrical and electronic engineering. Mr. Whitaker joined the staff of UL in 1936 as an Assistant Electrical Engineer and served in various positions of increasing responsibility, among them Chief Electrical Engineer. He served as President and member of the Board of Trustees of UL from 1964 to 1978 when he officially retired.

During his years of active employment, he was a member of The Institute of Electrical and Electronics Engineers, Inc. and the National Association of Electrical Inspectors. He served on the Board of Directors of the National Fire Protection Association and as a member of their Standards Council. He served as Vice President of the American National Standards Institute and was a member of the Board of Directors. He was also a member of the Executive Standards Board and Body Council member of the Electrical and Electronics Standards Management Board.

Mr. Whitaker is a Fellow in the IEEE. In conferring this recognition, the Institute cited: "For contributions to the development of procedures and standards to bring about safety in the use of electrical equipment." He is also a Life Member of the IEEE, a registered Professional Engineer and a member of the North Carolina Society of Professional Engineers and the National Society of Professional Engineers.

GO, GO, CHICAGO SECTION! - On January 1, 1984 IEEE will begin its centennial celebration. It would be a great achievement if we can begin this celebration a quarter million strong. To heighten interest in the effort and involve the entire membership, a "Member Recruit A Member" (transnational) campaign is being launched from now until December 31, 1983. Every member recruiting a higher grade member and complying with contest rules will receive a centennial gift certificate from IEEE worth up to \$15.00 for each member recruited. The gifts are attractive IEEE centennial mementos, such as key rings, ties, scarves, mugs, portfolios, banners and other valuable prizes. The gift certificate may be submitted for gifts by the member recruiter or donated to the applicant, Section, Chapter or Society for local membership efforts.

The simple contest rules are as follows: **1)** The applicant recruited must be for higher grade membership (above student member grade); **2)** The application must be submitted with payment and a completed recruiter form attached to be eligible for gift certificate; **3)** Recruiter forms must accompany the application and dues payment. Recruiter forms submitted separately will not be eligible for gift certificates. In the absence of a recruiter form, a letter by the applicant stating the member recruiter name, membership number and address being submitted with their application and payment will be accepted in lieu of recruiter form; **4)** To be eligible to receive gift certificates, application, payment and recruiter forms must be received by IEEE no later than December 31, 1983; **5)** A certificate worth up to \$15.00 towards centennial items will be sent to the member recruiter for each new higher grade IEEE member. Information on the centennial items available and the procedures for redeeming gift certificates will be provided with each certificate. There are centennial items for both single and multiple certificates. Members may choose to combine their certificates to obtain larger valued centennial items; **6)** All IEEE members, including student members are eligible as recruiters to receive centennial gift certificates; **7)** 1983 membership applications will be accepted for 1984 membership or until 1984 membership applications become available. After December 31, 1983 applicants submitting applications with 1983 dues rates for 1984 membership will be invoiced for the balance due.

Membership applications are available from the Chicago Section by calling (312) 236-4609.

For your convenience, a contest form has been printed (opposite).

Come on, Chicago Section!



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RECRUITERS NAME _____

IEEE # _____

ADDRESS _____

This recruiter form must be accompanied by application and payment to receive gift certificate. Recruiter forms mailed separately from application **will not** be eligible.

*Applications must be received at IEEE by December 31, 1983 to be eligible to receive prize.

Additional recruiter forms are available from
IEEE MD, 445 Hoes Lane, Piscataway, NJ 08854.