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CALENDAR OF EVENTS

For reservations call the IEEE office at 236-4609 (unless otherwise indicated)

COPY DEADLINE: FIRST OF THE MONTH

MAR.	7	"Industrial Application of Microprocessors"	Fox Valley Sub. (j/w Computer Soc.)	The Flame Stk. Hse. 17W362 Roosevelt Rd. Villa Park	Social Dinner Meeting	6:30 PM 7:00 PM 8:00 PM
	13	Monthly Meeting - ALL WELCOME	IEEE Executive Cte.	Brown & Root Offices 2001 Spring Rd. Oak Brook	Meeting	7:30 PM
	14	"Design of Nuclear Power Stations"	Power Engrng. Soc. (j/w Indus.Apls.Soc.)	Stouffer's Rest. 32 E. Randolph St. 2nd Fl., Chicago	Social Lunch Program follows	11:15 AM 11:45 AM
	21	"Microwave Radiation Effects on Biological Tissue"	Northwest Sub.	7 Stars Rest. 111 E. Higgins Rd. Elk Grove Village	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
	27-30	29th Vehicular Technology Conf.	IEEE VT Soc., Chgo. Sec., Radio Club of America & NABER, Inc.	Arlington Pk. Hilton Euclid Av/Rohlwing Rd. Arlington Heights	(Contact Alvin Goldstein 576-4903 or John Zinkus 298-7345)	
APR.	4	"Amateur Radio Communication via Satellite"	Fox Valley Sub. (j/w Antennas & Propaga. Soc.)	The Tally-Ho Rest. 27W103 North Ave. West Chicago	Dinner Meeting	7:00 PM 8:00 PM
	10	Monthly Meeting - ALL WELCOME	IEEE Executive Cte.	Brown & Root Offices 2001 Spring Rd. Oak Brook	Meeting	7:30 PM
	11	"Programmable Controllers"	Indus. Apls. Soc. & Indus'l Electronics Control Instrumenta.	Nielsen's Village 7330 W. North Ave. Elmwood Park	Social Dinner Meeting	5:30 PM 6:15 PM 7:15 PM
	18	"Underground Pump Storage"	Power Engrng. Soc.	Stouffer's Rest. 32 E. Randolph St. 2nd Fl., Chicago	Social Lunch Program follows	11:15 AM 11:45 AM
	28	Achievement and Recognition Dinner	IEEE Chicago Sec.	Ramada-The O'Hare Inn 6600 Mannheim Rd. Rosemont	Social Dinner	6:00 PM 7:00 PM

This year's 29th Annual Vehicular Technology Conference on March 27-30 at the Arlington Park Hilton will have as its theme "Tomorrow's Technology for a Mobile Society." It is sponsored by the Vehicular Technology Society, IEEE Chicago Section, Radio Club of America, NABER, Inc.

MARCH 27 — Session Chairman is Ero Erickson. This will be presented jointly by the VTS-IEEE and the Professional Mobile Radio Service Section (PMRSS) of NABER, Inc. organizations. PMRSS is dedicated to improvement of servicing techniques. This is an all day series of seminars and demonstrations of the newest technology concerned with diagnostic analysis of the new vehicular electronics. Various test equipment manufacturers will be presenting in-depth approaches of new servicing methodology.

MARCH 28 — (8:30 AM) Opening remarks by Alvin Goldstein, Chairman VTC '79; Roger Madden, Chairman VTS IEEE; John Waters, Chairman Chicago Section IEEE. Session 1A (9 AM) New Communication Techniques and Technologies-I; Session Organizer/Chairman Dr. Anthony van der Heuvel, Motorola. Session 1C (9 AM) Lateral and Longitudinal Considerations of Automated Highway and Guideway Vehicles; Organizers James Bender, General Motors and Ronald Rule, Boeing Aerospace Company — Chairman Frank Caiati, General Motors. Session 1D (9 AM) Automotive Braking and Safety-Related Systems; Organizer William Fleming, General Motors — Chairman Edward Weller, General Motors. Luncheon (12:15 PM) Guest speaker Martin Caserio, Executive Vice President, General Motors. Session 2A (1:45 PM) New Communication Techniques and Technologies-II; Organizer/Chairman Dr. Jona Cohn, Motorola. Session 2B (1:45 PM) Regulatory Aspects of Mobile Communications; Organizer/Chairman Roger Madden, FCC. Session 2C (1:45 PM) People Mover Programs—Present and Planned; Organizers James Bender and Ronald Rule — Chairman Dale Shellhorn, Boeing Aerospace. Session 2D (1:45 PM) Automotive Microprocessor Applications and Supporting Electronics; Organizer William Fleming — Chairman John Cassidy, General Motors. Open Forum (7:30-9:00 PM).

MARCH 29 — Session 3A (8:30 AM) Components of Mobile Communications Systems and Tests; Organizer/Chairman George Mitchell, Motorola. Session 3B (8:30 AM) Informal Papers-I; Organizer/Chairman Kent Johnson, Bell Laboratories. Session 3C (8:30 AM) Simulation of "Real World" Transit Systems; Organizers James Bender and Ronald Rule — Chairman David Benjamin, Vought Corporation. Luncheon (12:15 PM) Guest speaker Bill Weisz, President, Motorola, Inc. Session 4A (1:45 PM) Mobile Communications Systems-I; Organizer/Chairman W. H. Chriss, Bell Laboratories. Informal Papers-II; Organizer/Chairman Kent Johnson. Session 4C (1:45 PM) Control and Communication Systems-I; Organizers James Bender and Ronald Rule — Chairman Thomas Selis, Westinghouse Electric Corporation. Session 4D (1:45 PM) Automotive Control Systems and Methodology; Organizer William Fleming — Chairman John Cassidy. Reception (7 PM) Banquet (8 PM) Hosted by Radio Club of America and IEEE-VTS. Guest speaker Robert Lee, FCC Commissioner.

MARCH 30 — Session 5A (8:30 AM) Mobile Communications Systems-II; Organizer R. L. Peterson, Bell Laboratories — Chairman W. H. Chriss. Session 5B (8:30 AM) Mobile Communications—Radio Propagation and Interference; Organizer/Chairman Neal Shepherd, General Electric Company. Session 5C (8:30 AM) Control and Communications Systems—Part II; Organizers James Bender and Ronald Rule — Chairman Neil Patt, General Motors. Session 5D (8:30 AM) Automatic Vehicle Locating and Monitoring; Organizer/Chairman Jack Ludwick, Mitre Corporation.

Conference fees: (registration, admission to all technical sessions, reception, 2 luncheons, Conference Record, exhibits, banquet) IEEE member \$80, non-member \$85. Individual activities: (registration, technical sessions, exhibits and one Conference Record) member \$40, non-member \$45; (one day registration, admission to technical session and exhibits only) member or non-member \$20; (exhibits and student pass) non-member \$5; (each additional Conference Record) member \$30, non-member \$35; (Tuesday enrollment fee) non-member \$10; (Wednesday luncheon) member \$10; (Thursday luncheon) member \$10; (Thursday evening reception) member or non-member \$5; (Thursday evening banquet) member or non-member \$20. Contact Alvin Goldstein at 576-4903 for further information or John Zinkus, 298-7345.

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IEEE
1979

membership information & application



LETTER FROM THE CHAIRMAN

At our last Executive Board meeting, your elected officers have been working on plans for a number of activities to benefit the Chicago Section membership. Some of these are: (1) Planning a seminar on Instrumentation scheduled for May 5; (2) Furnishing judges for the Chicago High School Science Fair; (3) Scholarship Awards of \$500.00 each to outstanding Electrical Engineering students at local universities; (4) Working with IEEE committees handling national conferences such as Vehicular Technology Conference, Midcon and others.

At this time of year when we are all weary of shoveling snow, we have the pleasant task of looking forward to Spring and the IEEE Achievement and Recognition Dinner. We have been coordinating with this hard working committee headed by Ray Hayden and everything is set to celebrate this event on April 28, 1979 at Ramada-The O'Hare Inn in Rosemont.

This year's dinner party will include 2 free cocktails starting at 6:00 PM with dinner, entertainment and dancing for your enjoyment. The entertainment will consist of "The Sunshine Express," a fine singing group, the comedian Stu Allen whose style is similar to Bob Hope and "The Sounds of Now" will provide music for dancing. In addition, Fellow Awards will be presented to Stanley Anderson, Werner Ulrich and Sam Kaplan. The low ticket price of \$17.50 each is due to the cooperation of the electrical industry in the Chicago area and their generous contributions to subsidize this outstanding event.

We are planning on having a packed house as tickets will be limited. Every member of the Chicago Section should make an effort to attend. Mark your calendars now. More detailed information will be in the next issue of Scanfax.

John E. Waters

JOIN 190,000 MEMBERS WORLDWIDE

The Chicago Section has received the IEEE 1979 Membership Information/Application booklets from headquarters for distribution.

Founded in 1884, The Institute of Electrical and Electronics Engineers is the world's *largest* professional engineering society. It strives to enhance the quality of life for all people throughout the world through the constructive application of technology in its field of competence. It endeavors to promote understanding of the influence of such technology on the public welfare.

The booklet contains information about the many and varied activities of the IEEE. An organization of individuals, it reflects the dedication, accomplishments and support of its members. IEEE is not for everyone; it is for those who qualify (there are several membership grades) and are genuinely interested and dedicated to improving the understanding of electrical and electronics engineering and its applications to the needs of society.

If you know of someone interested in the professional and personal advantages of membership, call Eleanore at the Chicago Section on 236-4609. She will eagerly mail a copy of the booklet to the interested party which invites them to join 190,000 members worldwide.

In 1969, Sam H. Kaplan jointly created the Chromacolor color TV picture tube with Joe Fiore, now Vice President of Manufacturing at Zenith. Mr. Kaplan recently won the IEEE coveted Vladimir K. Zworykin Award for outstanding "contributions to the theory and development of color TV picture (shadow mask) tubes." The Award was presented at the Chicago Spring Conference on Consumer Electronics to Mr. Kaplan, Manager of Zenith's color tube research.

Throughout his career, Sam Kaplan has contributed a steady stream of improvements and innovations in virtually every area of color picture presentation. Currently he holds 43 U.S. patents, with more pending. His article on "Theory of Parallax Barriers," published in 1952 is a basic reference to the theory and practice of shadow mask tube design.



An innovative "Iris" shadow mask and high transmission glass were key factors contributing to the Chromacolor color TV picture tube being 100% brighter than the other color tubes on the market in 1969. Unlike the standard shadow masks preceding it, the "Iris" mask starts with smaller apertures for precision screening of the 1,350,000 picture-producing phosphor dots on the TV screen. The apertures are then enlarged to permit a much larger electron beam to pass to the TV screen. At the same time, the Chromacolor tube's high transmission glass allows more of the brightness of the color to be viewable. The light-absorbing jet-black material framing each phosphor dot on the TV screen makes this possible because it absorbs room light. The Chromacolor tube has been characterized by Dr. Edward W. Herold, a long-time authority in the field, as one of the ten "milestones in the development of the shadow mask tube." It is used today by all U.S./Japanese TV manufacturers.

The Award is made by the Board of Directors upon the recommendation of the Fields Awards Committee and the Awards Board for outstanding technical contribution to electronic television. The first award was made in 1952 and its presentation was to have been continued until a total of twenty awards shall be made. An extension for granting five additional awards has been provided through the generosity of RCA Corporation. Dr. Vladimir K. Zworykin, who established the award in 1950 is considered by many to be the "father of television" because of his developments in early TV technology.



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