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CHICAGO SECTION • IEEE • INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

DECEMBER 1975

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SECOND CLASS POSTAGE
paid at Chicago, Illinois.

May the peace and love of this
Holiday Season illuminate you and
yours and the New Year offer
ever increasing prosperity.



CALENDAR OF EVENTS

For Reservations

Call the IEEE Office 236-4609

(Unless Otherwise Indicated)

- Dec. 2 IEEE Executive Committee Meeting; Brown & Root Offices, Spring Rd., Oak Brook, Ill., 7:30 PM — ALL WELCOME.
- Dec. 3 "Hand Calculators — Basic Technology — State of the Art & Future," Fox Valley Subsection (Joint Computer Society), Andy's Steak House, 17W611 - 22nd, Oak Brook, Ill., Cocktails 6:30 PM; Dinner 7:00 PM; Meeting 8:00 PM.
- Dec. 8-9 5th Annual 1975 Chicago Fall Conference on Consumer Electronics, Ramada, The O'Hare Inn, 6600 N. Mannheim Rd., Des Plaines, Ill.
- Dec. 9 Antennas & Propagation/Microwave Theory & Techniques Group (No information by deadline).
- Dec. 10 "Grounding Systems: High Resistance, Low Resistance & Solidly Ground Systems," Industrial Electronics & Control Instrumentation/Industry Applications Society, Nielsen's, 7330 W. North Ave., Elmwood Park, Ill., Social Hour 5:30 PM; Dinner 6:15 PM; Meeting 7:15 PM.
- Dec. 10 Consumer Electronics Group (No information by deadline).
- Dec. 25 Merry Christmas 1976
- Jan. 1 and a Happy New Year!
- Jan. 6 IEEE Executive Committee Meeting; Brown & Root Offices, Spring Rd., Oak Brook, Ill., 7:30 PM — ALL WELCOME.
- Jan. 13 Antennas & Propagation/Microwave Theory & Techniques Group (No information by deadline).
- Jan. 14 Consumer Electronics Group (No information by deadline).
- Jan. 14 Industrial Electronics & Control Instrumentation/Industry Application Group (No information by deadline).
- Jan. 20 AEP-ASEA UHV Project Test Station, A Progress Report, Power Engineering Society, Midland Hotel, 172 W. Adams St., Chicago, Ill., Luncheon
- Jan. 21 "Medical Instrumentation," Northwest Subsection.

Deadline for copy:

First week of month preceding publication

U.S. POSTAL SERVICE
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11. Extent and nature of circulation

	Average No. Copies Each Issue During Preceding 12 Months	Actual No. of Copies of Single Issue Published Nearest to Filing Date
A. Total number copies printed (net press run)	5,200	5,200
B. Paid circulation		
1. Sales through dealers and carriers, street vendors and counter sales	3	3
2. Mail subscriptions	4,879	4,896
C. Total paid circulation	4,882	4,899
D. Free distribution by mail, carrier or other means, Samples, complimentary, and other free copies	200	200
E. Total distribution (sum of C and D)	5,082	5,099
F. Copies not distributed		
1. Office use, left-over, unaccounted, spoiled after printing	118	101
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G. Total (Sum of E & F — should equal net press run shown in A)	5,200	5,200

REPEAT SUCCESSFUL COURSE ON MICROPROGRAMMING SYSTEMS DESIGN

The very successful course on Microprogramming Systems Design which was offered last spring by the IEEE Computer Society and Northwestern University will be repeated in March, 1976. The four day course will be held every Thursday in March . . . the 4th, 11th, 18th and 25th.

This is a comprehensive course covering all aspects of microprocessor systems

and design. The goal is to upgrade the skills of practicing engineers and managers.

The course fee of \$250.00 includes 4 days of lectures, materials and luncheon.

For further information and/or registration, please call the IEEE office at 236-4609.

TECHNICAL SEMINARS

At the recent Region IV Conference a motion was approved to sponsor future seminars similar to the IEEE Microprocessor Course last spring. Regional Director, Paul Carroll, named the six area Vice Chairmen as the working committee. Harry Hedges, Vice Chairman of Area A, was subsequently appointed Chairman of the Committee.

Establishing more seminars in the Chicago Section is very desirable but overdue. Other sections in large cities have recently conducted many seminars on subjects such as Management, OSHA, Solid State Electronics, etc. An added blessing of more seminars is increased advertising in Scanfax to offset the expenses.

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Meeting Reservations

Remember that the IEEE office, (312) 236-4609 will take your meeting reservations. Call anytime between 8:00 AM and 5:00 PM, Monday through Friday.

The meeting coordinator for any group should call and leave his number with the office, so they can refer questions on matters other than reservations.

Change of Address

If you have moved — or are about to move — please notify the IEEE office in NEW YORK. Our SCANFAX mailing labels come from there, and we cannot update your mailing address locally in Chicago.

A change of address form is included in each issue of SPECTRUM. Your local post office will also supply you with cards; mail to Emily Sirjane, Membership Services, IEEE, 345 E. 47th Street, New York, NY 10017. Include your SPECTRUM mailing label if possible. We cannot forward this information for you, so please do not send it to the local office.

IN DEFENSE OF THE IEEE

"Why should I join or stay with the Society? What will I get out of it?"

You and I have heard these questions so many times that their repetition sets up in us a pardonably belligerent reaction. I know my answer is belligerent. I reply, "Not a damn thing more than you put into it." Unless abruptness of that answer terminates the conversation, and it usually does not, there is opened up an opportunity for some straight-forward, down-to-earth discussion of the whys and wherefores of any professional organization, in the course of which I express my conviction that membership in an organization such as ours is an opportunity for service rather than a place in the bread line. As the discussion proceeds, agreement is usually reached that the individual owes a great deal more to his profession than the profession owes to him.

Having won that round, the next one begins with a feint by my opponent who advances the statement,

"Yes, but I cannot afford to pay dues in more than one society."

I come back something after this fashion, "My friend, your income and your disposition of it are none of my business but have you ever stopped to figure out what percent of your income you return in the form of dues to professional societies, and have you ever contrasted that with the annual cost of your cigarettes or whatever vices or pleasures you indulge in? Do you place a value on your profession adequately represented by your dues? Suppose it becomes necessary for you to belong to a union in order to practice your profession, what do you think your dues would be and what would you get for them? In the meagerness of the dues we pay to our professional societies, do we not ourselves set our own values on our professional organizations and if we do not value them any higher, why should we be surprised if the public places no higher value on our profession?"

The final obstacle raised by many sincere persons may be stated in this manner,

"Yes, I agree with all you say, but I have a good many other irons in the fire and I do not like to belong to any organization in whose affairs I cannot actively participate."

That statement deserves a softer answer. I say, "My friend, I understand and sympathize with that point of view, but I think it is fallacious. True, you and I cannot participate actively in every or-

ganization, we cannot spread ourselves too thin and still be effective, but some of us can concentrate our efforts on one and some on another of these activities; and all of us should support by our dues and by our votes, to which membership entitles us, the constructive programs of every organization striving to advance the profession of which we are a part. If you cannot give of your time and effort, you can give your name and your money to this work, and perhaps when you know more of what we are trying to do and see more clearly its importance, you will find the time actively to give us a hand."

EXPERTS TELL EEs HOW NOT TO BECOME OBSOLETE

Keeping in step with technology is everybody's concern these days and if you're looking for a way to stay in the running, a new collection of background material from the IEEE could be a starter. Called "Career Management: A Guide to Combating Obsolescence," the 448-page publication is a selection of papers on the subject edited by Harold G. Kaufman of the Polytechnic Institute of New York.

The 45 reprinted papers represent expert thought on the topic specifically as it concerns EEs. The paperback can be ordered from the IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854, for \$8.95. A hardcover version costs \$17.95, \$13.34 to IEEE members.

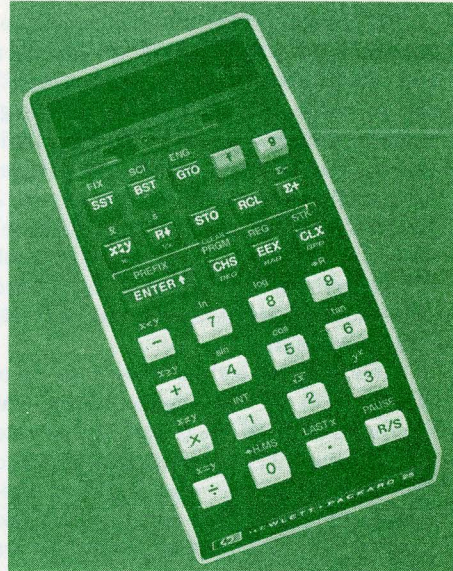
(Source: "ELECTRONICS" published by McGraw Hill 10-2-75)

A COMPARISON OF SYSTEM GROUNDING METHODS

On December 10, Balwin Bridger and Mickey DeHart of Powell Electrical Manufacturing Company will discuss "System Grounding Methods" at a meeting of the Chicago Joint Chapter of the Industrial Applications Society and the Industrial Electronics and Control Instrumentation Group. At this meeting a comparison of Modern High Resistance grounding will be made to the other methods of grounding, including low resistance, solidly grounded and ungrounded systems.

The meeting will be held at Nielsen's located at 7330 West North Avenue in Elmwood Park, Illinois. Social hour 5:30

ELECTRONIC CALCULATORS



Roseanne Zamparo, Electronics Field Engineer, Midwest Sales Region, Hewlett-Packard Company, will discuss the progress in electronic calculators on December 3, 1975. The joint meeting of Fox Valley Subsection and the Computer Society will be at Andy's Steak House in Oakbrook. The charge for dinner prior to the meeting is \$8.00.

Roseanne is a pioneer in marketing hand calculators and will cover the development of HP units from basic four function types through slide rule type to programmable types. The fundamental steps in design and production will be discussed. The latest calculator line and a disassembled programmable unit will be displayed.

COMPUTER FOR CARS

P.M., dinner 6:15 P.M. and the meeting is 7:15 P.M.

For reservations call the IEEE office, 236-4609.

COMPUTER FOR CARS

Great interest is developing in the field of "Automobile Engine Control Using Microprocessors", the title for the January 14th meeting of the Vehicular Technology Group. The speaker, from the Ford Motor Company, will cover the highlights of four recent S.A.E. papers.

JOSEPH DILLARD ELECTED PRESIDENT OF IEEE

Mr. Joseph Dillard has been elected President of the Institute of Electrical and Electronics Engineers, Inc., (IEEE), the world's largest professional engineering society. He defeated Mr. Irwin Feerst, who opposed him in the election. The results were reported by Dr. R. J. Borrmann, Chairman of the Institute's Tellers Committee, the group responsible for supervising the election. Mr. Dillard, who succeeds Mr. Arthur Stern, will take office on January 1.

Over 50,000 ballots were cast representing 36% of the eligible voters. This compares with 36.6% of the eligible votes cast in the 1971 election and 36.1% of the eligible voters who returned their ballots in 1972. This was the first time that an IEEE Presidential election was contested.

Mr. Joseph K. Dillard, Manager, Advanced Systems Technology, Westinghouse Electric Corporation, is responsible for technical and economic investigations of power systems and technical assistance to Westinghouse divisions in the fields of process control, stress analysis, and application of minicomputers. A Fellow of IEEE and currently the Institute's Execu-

tive Vice President, he has also served as Treasurer and as Vice President-Technical Activities.

Elected in an uncontested race for Executive Vice President was Dr. Robert Cotellessa. Professor and Chairman, Department of Electrical and Computer Engineering, Clarkson College of Technology, Potsdam, N.Y. Currently serving the Institute as Vice President-Technical Activities, Dr. Cotellessa has also held the position of Vice President-Publication Activities.

The candidate selected For Division V Director is Dr. Stephen S. Yau, Professor of Electrical Engineering and Computer Sciences, Chairman of Computer Sciences Department, Northwestern University, Evanston, Illinois.

The remainder of the 1976 IEEE Board of Directors will be appointed at the Annual Assembly on December 4.

CALL FOR PAPERS

1976 IEEE POWER ENGINEERING SOCIETY SUMMER MEETING

The 1976 Summer Meeting of the IEEE Power Engineering Society will be held July 18-23, 1976 in Portland, Oregon. This meeting will include all subjects in the power field.

Authors who have significant contributions in the power field are invited to submit papers for review by the appropriate technical committee. Prospective authors are urged to request a *Power Author's Kit* from IEEE, Technical Conference Services Office, 345 East 47th St., New York, N.Y. 10017, USA. The kit includes a Declaration of Intent form, a *Power Author's Guide* outlining the current requirements and a supply of model paper on which the manuscript is to be typed. The Declaration of Intent form should be returned as soon as possible, preferably by return mail, so that preliminary plans may be made to include the paper in the technical program.

February 1, 1976 is the deadline for receipt of original manuscripts at IEEE Headquarters.

1976 POWER ELECTRONICS SPECIALISTS CONFERENCE

The principal motivation behind this seventh annual conference is to bring to a central forum current and specialized component and systems technology in the three major disciplines (electronics, power and control) which comprise the

CONTINUING EDUCATION

"Mandatory Continuing Education for Professionals: Prospects and Dilemmas," will be the theme of a conference February 26-27, 1976, at the Pick-Congress Hotel, Chicago, Illinois.

Although the sessions will focus on the situation in Illinois as regards continuing professional education, participants from other states will be welcomed.

The discussions will cut across professional lines, according to Dr. Charles Kozoll, Associate Director, Continuing Education and Public Service, University of Illinois at Urbana-Champaign.

Instead of people with similar careers talking only among themselves, they will get a broader and more accurate perspective on professional obsolescence and how to avoid it by talking with those with other occupations, he said.

Emphasis will be given to the pressures on professionals to become involved in continuing professional education, with special attention to the roles and responsibilities of educational institutions and of the professional associations in meeting the future and existing needs.

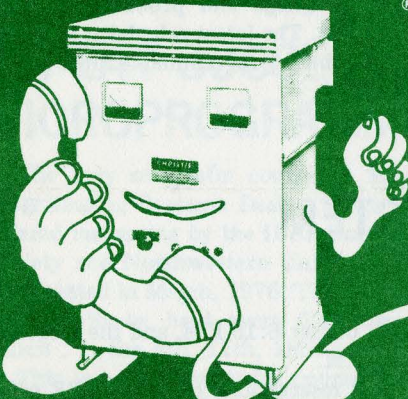
It is expected to draw representatives of professional associations, as well as large numbers of legislative and administrative arms of government, and those in other professions.

Additional information and registration materials may be obtained from Don Moore, program development specialist, 114 Illini Hall, University of Illinois, Champaign, Ill. 61820.

rapidly evolving field of power electronics. In keeping with its determination to transcend current boundaries the 1976 Power Electronics Specialists Conference to be held at the NASA-Lewis Research Center, Cleveland, Ohio solicits papers which "Challenge New Frontiers". Topics of particular interest, dealing with component/circuit interactions, include but are not limited to: Power Devices & Components; Power Circuits and Innovative Applications.

Prospective authors must submit both a 300-500 word Summary (6 copies) suitable for printing and distribution at the conference and a 35 word Abstract (2 copies) suitable for printing in the program by December 5, 1975 to: *Program Chairman*, Forest Golden, General Electric Corporation, Box 30, West Genesee Street, Auburn, New York 13021 (315) 253-7321 x 227.

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