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CHICAGO SECTION • IEEE • INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

SEPTEMBER 1976

CALENDAR OF EVENTS

For reservations call the IEEE office at 236-4609

(Unless otherwise indicated)

- Sept. 7 IEEE Executive Committee Meeting; Brown & Root Offices, 2001 Spring Rd., Oak Brook, Ill., 7:30 PM — ALL WELCOME.
- 8 "Electric Energy Transmission — Past, Present and Future," PES (joint with Fox V. Sub.), Richard's Lilac Lodge, 2134 S. Wolf Rd., Hillside, Ill., Social Period 6:30 PM; Dinner 7:00 PM; Program 8:00.
- 8 "Emergency Generation," IAS/IECI, Nielsen's, 7330 W. North Ave., Elmwood Park, Ill., Social Hour 5:30 PM; Dinner 6:15 PM; Meeting 7:15 PM.
- 15 Tour — Motorola Data Products, NW Sub., 455 E. North Ave., Carol Stream, Ill.
- Oct. 5 IEEE Executive Committee Meeting; Brown & Root Offices, 2001 Spring Rd., Oak Brook, Ill., 7:30 PM — ALL WELCOME.
- 6 "The Body Scanner," Fox V. Sub., Loyola University.
- 11-14 IAS/IECI Annual Meeting, Hyatt Regency O'Hare, Chicago, Ill. For information call Glenn R. Griffith, General Chairman, 468-9300, ext. 595.
- 13 "Interference Considerations in Mobile Radio Systems," VT Group. For information call John Zinkus, 298-1591.
- 16 (Tentative). MTT/APS' For information call Dan Schmidt, FI 9-3300, ext. 219.
- 19 General IEEE Topic of Interest, PES (joint with Chicago Section), Joseph Dillard, President of IEEE, Midland Hotel, 172 W. Adams St., Chicago, Ill. Luncheon.

Deadline for copy: One month before date of issue.

ELECTRIC ENERGY TRANSMISSION - PAST, PRESENT AND FUTURE

This is the subject of the program which John H. Cronin of Westinghouse Electric Corporation will present to the joint meeting of the Chicago Chapter of the Power Engineering Society and the Fox Valley Subsection on Wednesday evening, September 8th at the Richards Lilac Lodge, 2134 South Wolf Road in Hillside. The social period will start at 6:30 P.M., dinner at 7:00 P.M. and the program at 8:00 P.M. The cost of the dinner is \$6.50 and a cash bar will be available.

John Cronin is an Advisory Engineer in the Transmission and Distribution Systems Engineering Department at East Pittsburgh Works, a Senior Member of IEEE, a member of the EEI T&D committee, Insulated Conductors committee and the PES Recognition Committee. He is a past chairman of the Pittsburgh Section IEEE and also a member of the American Power Conference Program Committee. He spent six years in the T&D Department of Duquesne Light Company with responsibility for various

studies and engineering design and operation of Transmission and Distribution circuits. During his 18 years with Westinghouse Electric Corporation he has conducted electrical system studies for determining optimum generation and transmission expansions on utilities. He has authored numerous technical papers for IEEE and regional power conferences.

For reservations, please call 236-4069 by Friday, September 3. Attendance is not limited to members.

CALL FOR PAPERS

ICC 77 JUNE 12-15, 1977 CHICAGO, ILLINOIS

communications — technology for a better tomorrow

We invite original papers in the field of communications, covering various aspects of both switching and transmission systems, theory and application, hardware and software, analog and digital, voice and data, and including topics such as electro-magnetic compatibility, standards, regulation and social implications.

We actively encourage your participating through this Call for Papers. To help us in our program planning we would like to have an indication of your intent. If you desire to submit a paper, fill out the form below, and mail it by September 30, 1976.

We must have the complete papers (including a one-page summary for review) by December 1, 1976. Please include the author's name, business affiliation, address, telephone number and the paper title on the summary and on the paper's first page; include the author's name and paper title on all other pages. Papers are normally limited to a five-page length, double column format, similar to that used in the ICC '76 Conference Record. Please mail the above to:

Lee S. Tuomenoksa, Chairman
Technical Program Committee
ICC '77 Room 4E-307
Bell Telephone Laboratories
Naperville, Illinois, USA 60540
(312) 690-2166

I intend to submit a paper on:

This paper falls into the area of:*

Name: _____

Address: _____

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NP ANALYZER

The September 15 meeting of the Northwest Subsection will be held at Motorola Data Products, 455 East North Ave., Carol Stream, Ill. It will consist of a tour of the production facilities and a slide presentation and demonstration of the Microprocessor Analyzer MPA-1. The speakers for the evening will be David Rossi — Manager of Operations and Robert Bahnsen — Product Manager, Microprocessor Analyzers.

Motorola Data Products is a supplier of CRT displays to the computer and games industries; visual communications systems for industrial process and surveillance applications; and microprocessor based systems for leisure, transportation,

and other industries.

The Microprocessor Analyzer MPA-1 is a completely digital instrument which is specifically designed for microprocessor development and trouble shooting applications. The unit captures microprocessor program executions and displays them in hexadecimal notation on a CRT screen.

Dinner preceding the tour will be at The Hamlet Restaurant, 600 East North Ave., Carol Stream, Ill. Social Hour is 6:00 P.M., Dinner at 6:45 P.M. and the meeting at 8:00 P.M.

For reservations, call the IEEE office at 236-4609, no later than September 14, 1976.

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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 Service Center in New Jersey. 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 Roseann Schulz, Member Services, IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 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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SECTION MEETING - J. K. DILLARD

At the October 19 joint Power Society and Section meeting, Joseph K. Dillard, IEEE President will present a very interesting view of the IEEE: "A Glance Back and a Look Ahead."

Mr. Dillard is a member of the National Academy of Engineering and a Fellow of the IEEE, the world's largest professional engineering society, and presently serving as its President. In 1973 he was awarded his company's highest recognition, the Westinghouse Order of Merit.

He is a registered Professional Engineer in the Commonwealth of Pennsylvania and a member of the Engineering Society of Western Pennsylvania and the National Society of Professional Engineers. He is also a member of the International Programme Committee of the World Energy Conference and a member of the Board of Directors of the U.S. National Committee. He is a Vice President of the U.S. National Committee of CIGRE.

He is presently serving as Vice-Chairman of the National Advisory Board of Georgia Tech and has just completed a term as a member of the Board of Visitors at the Massachusetts Institute of Technology.

As Manager of Advanced Systems Technology at Westinghouse Corp., he is responsible for technical and economic investigations of power systems, looking 10 to 15 years into the future. Some current projects of major significance under his direction are: The Apple Grove EHV Test Project, where transmission voltages up to 750 kV are being investigated; the Waltz Mill 1100-kV research project in underground transmission; engineering design of EHV transmission systems; and the application of digital and analogue computers for power system planning and operations studies. He has published some 60 technical papers on power system subjects.

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(ELECTROMAGNETIC INTERFERENCE & COMPATIBILITY) COMPREHENSIVE ACCELERATED TRAINING COURSES
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- EMC SPECIFICATIONS AND SUSCEPTIBILITY Chicago, Illinois November 9-11, 1976 Fee: \$395/Student
This three-day course covers FCC Rules and Regulations Parts 15 and 18, CISPR (International Special Committee on Radio Interference) Specifications including CSA and VDE, and test methods and procedures. The course covers terms and definitions, how to get a test item approved, type accepted, or certificated. If your company designs, manufactures, and/or sells electronic, electrical, and/or electro-mechanical devices or equipment in the U.S. or overseas, this course is intended for you.

- GROUNDING AND SHIELDING Toronto, Canada December 7-9, 1976 Fee: \$395/Student
This three-day comprehensive training program on Grounding and Shielding, covers the design of shields for cables, circuits, components, boxes, equipments, sub-systems, systems, and complete vehicles including ground transportation, buildings, ships, aircraft, launch vehicles and spacecraft.
The grounding section of the in-depth seminar reviews the rationale and philosophy for grounding, both for safety and EMI-control. This course offers for the first time a quantitative, systems-approach to grounding of systems.

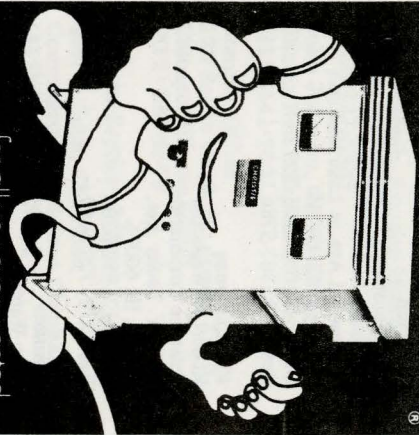
OUR FALL SCHEDULE OF SEMINARS FOR 1976.

COURSE TITLE	LOCATION	WASH. D.C.	MUNICH, GERMANY	COPENHAGEN, DENMARK	CHICAGO, ILLINOIS	LOS ANGELES, CALIFORNIA	SAN FRANCISCO, CALIFORNIA	TORONTO, CANADA
EMC - DESIGN & MEASUREMENT FOR CONTROL OF EMI		OCT. 11-15		SEPT. 6-10			NOV. 15-19	
EMC BY DESIGN SYNTHESIS AND OPTIMIZATION		OCT. 26-28						
EMI CONTROL IN DATA PROCESSING EQUIPMENT						SEPT. 27-30		
OPTICAL ISOLATORS & FIBERS OPTICS							SEPT. 21-23	
MIL-STD-462/462B AND SYSTEM-LEVEL EMI TESTING & CLINIC		OCT. 13-17						
MICROWAVE SOLID-STATE CIRCUITS & RECEIVERS		OCT. 19-21						
MOBILE COMMUNICATIONS SYSTEMS		DEC. 1-3						

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IEEE IAS ANNUAL MEETING

The Annual Meeting of the Industry Applications Society jointly sponsored by the Chicago and Calumet Sections is scheduled October 11-14, 1976 at the Regency Hyatt O'Hare Hotel.

This meeting highlights the annual efforts of the IAS Committees in the presentation of one of the most technically complete and varied programs to be found. This year's program stands to be one of the best yet. The Program Committee has compiled papers representing 18 committees of the IAS. The papers from these committees total 176 and come from 11 foreign countries and the United States.

Those participating committees are Electrostatic Processes, Power Semiconductor, Mining Industry, Electric Process Heating, Industrial Controls, Land Transportation, Industrial Drives,

Production and Application of Light, Glass Industry, Rubber and Plastics Industries, Static and Power Converter, Safety, Petroleum and Chemical Industry, Industrial and Commercial Power Systems, Metal Industry, Textile Industry, Rotating Machinery and Electric Space Heating and Air Conditioning.

In addition to the Technical Program, three tours have been arranged to visit outstanding industrial and technical installations in the Chicago area. We are providing a tour of the Fermi National Accelerator Laboratory, the Inland Steel East Chicago plant and the S&C Electric Company.

Activities for the ladies attending have also been provided. They will have three tours that show the highlights of the city of Chicago of interest to the ladies. A highlight of the social activities will be

the Bicentennial Social at which time everyone will be free to enjoy the conviviality of the Social Hour and be entertained in true Chicago style.

The Awards Luncheon Wednesday provides the opportunity to participate in the awarding of the outstanding achievement award and hear Dr. Hans Adolph Heinrich.

Since this meeting is being sponsored by your Section, your support will be greatly appreciated.

Advance Programs of the meeting have been mailed out. In case you have not received an Advance Program, please advise Mr. G. R. Griffith, Atlantic Richfield Company, 312/468-9300, Ext. 595, and he will see that one is put in the mail to you.

	Monday, October 11	Tuesday, October 12	Wednesday, October 13	Thursday, October 14
7:00 a.m.	Authors Breakfast	Authors Breakfast	Authors Breakfast	Authors Breakfast
8:30 a.m.	Electrostatic Processes Power Semiconductor Mining Industry Elec. Process Heating Industrial Control	Electrostatic Processes Power Semiconductor Industrial Drives Mining Industry Prod. & Appl. of Light Energy Management	Electrostatic Processes Static Power Converter Glass Industry Safety Committee & Indus. & Coml. Power Systems Petrol. & Chem. Industry Energy Panel	Electrostatic Processes Static Power Converter Indus. & Coml. Power Systems Metal Industry Textile Industry Rotating Machinery
Noon			IAS Awards Luncheon	
2:00 p.m.	Electrostatic Processes Power Semiconductor Industrial Drives Mining Industry Prod. & Appl. of Light Land Transportation	Electrostatic Processes Power Semiconductor Industrial Drives Glass Industry Rubber & Plastics Industry Energy Management	Electrostatic Processes Static Power Converter Glass Industry Indus. & Coml. Power Systems Petrol. & Chem. Industry Rotating Machinery	Electrostatic Processes Static Power Converter Metal Industry Electric Space Heating Rotating Machinery
Evening	Bicentennial Social			

FINAL ANNOUNCEMENT

Joint seminar entitled ACTIVE NETWORKS

Sponsored by

Chicago Section IEEE

and

Department of Physics, DePaul University

The objective of the seminar is to develop the network theory applicable to analog active networks and to review the current state of the art in this field. The subject will be supported by a review of principles of solid state physics applicable to thick film and thin film techniques and by descriptions of the techniques themselves.

Not only the theory, but also the applicable experimental techniques in active networks will be presented.

The seminar will end by a session devoted to fundamentals of digital signal processing in anticipation of similar future seminars describing digital networks and their applications. It is planned to supply a good, modern state-of-the-art review. At the same time, the seminar is not intended to be limited to a small number of persons active in research in the field of active networks. The material will be made accessible at a reasonable effort to persons with B.Sc. background (or equivalent) in physics or engineering, allowing for a certain lack of recent skill in application of mathematical techniques. Such mathematical techniques and physical concepts will be emphasized and exercised at the seminar, but crowding of the material will be avoided.

Ten three-hour sessions are planned, meeting once a week on Tuesday evenings. Each session will be roughly divided into lecture and exercise/discussion period separated by a break.

A four-quarter hour graduate credit for the entire course at DePaul University Graduate School may be arranged, if desired. In this case candidates will have to undergo necessary tests.

The sessions will be held from September 21 to November 23, 1976 on Tuesdays, 5:30 p.m. to 8:30 p.m. Location is the north side campus of DePaul University. The initial assembly point will be Room 8, Department of Physics, 1215 West Fullerton Avenue, Chicago, Illinois.

Schedule of Subjects and Speakers

(Program arranged with the aid of Communications Society, Chicago Chapter IEEE)

1. Active Network Theory
September 21, 28, October 5, 12, 19, 1976 — Dr. J. J. Hupert, DePaul University and Mr. J. Kimec, Automatic Electric Laboratories, Northlake, Ill.
2. Solid State Physics Background to Active Networks Technology
October 26, 1976 — Dr. D. O. van Ostenburg, DePaul University
3. Thick Film Technology*
November 2, 1976 — Mr. A. E. Guttensohn, Automatic Electric Laboratories, Northlake, Ill.
4. Thin Film Technology*
November 9, 1976

5. Experimentation with Analog Active Devices
November 16, 1976 — Mr. John Kimec, Automatic Electric Laboratories, Northlake, Ill.

6. Topics in Digital Signal Processing
November 23, 1976 — Mr. D. J. Stelte, Automatic Electric Laboratories, Northlake, Ill.

*Arrangements with speakers from industry are currently in progress. For information call Dr. Julius J. Hupert at (312) 321-8176 or at home (312) 469-2848.

Registration Form

SEMINAR IN ACTIVE NETWORKS

Sponsored by

Chicago Section IEEE & Department of Physics, DePaul University

Please mail to: Dr. J. J. Hupert — Chairman, Graduate Committee
Department of Physics — DePaul University
1215 W. Fullerton Avenue — Chicago, Illinois 60614

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☐ Check for \$240.00 participation fee enclosed.

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Additional comments _____

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Date _____

Registration deadline: September 15, 1976

Make check payable to: IEEE Active Networks Seminar