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CHICAGO SECTION • IEEE • INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

NOVEMBER 1975

CALENDAR OF EVENTS

IEEE OFFICE 236-4609

- Nov. 4 IEEE Executive Committee Meeting; Brown & Root Offices, Spring Rd., Oak Brook, Ill., 7:30 PM — ALL WELCOME.
- Nov. 5 "Mid Career Reappraisal," Fox Valley Subsection, Kings Palace, Lisle, Ill., Dinner 7:00 PM; Meeting 8:00 PM.
- Nov. 11 "Adaptive Antenna System," Antennas & Propagation/Microwave Theory & Techniques Group, Black Steer Restaurant, 6446 W. North Ave., Chicago, Ill., Social Hour 6:00 PM; Dinner 7:00 PM; Meeting 8:00 PM.
- Nov. 12 "Installation & Control of 4160 Equipment," 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.
- Nov. 12 "Living With Lightning," Vehicular Technology Group, The Lancer Steak House, 50 E. Algonquin Rd., Schaumburg, Ill., Social Hour 6:00 PM; Dinner 7:00 PM; Meeting 8:00 PM.
- Nov. 12 Consumer Electronics Group Meeting (No information by deadline).
- Nov. 19 "Space Exploration," Northwest Subsection, Maitre "D" Restaurant, 111 E. Higgins, Elk Grove Village, Ill., Social Hour 6:00 PM; Dinner 7:00 PM; Meeting 8:00 PM.
- Nov. 20 "Computer Performance Measurements With Special Application To C.M.M.P.," Computer Society, IBM Building Cafeteria, 400 N. Wabash Ave., Chicago, Ill., Social Hour 5:30 PM; Dinner 6:30 PM; Meeting 7:30 PM.
- Nov. 20 "ERDA: Goals & Research Projects," Power Engineering Society, (Joint PES & ISPE), Midland Hotel, 172 W. Adams St., Chicago, Ill., Social Hour 5:00 PM; Dinner 5:45; Meeting 6:30 PM.
- 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., Dinner 7:00 PM; Meeting 8:00 PM.
- Dec. 8-9 Fifth Annual Fall Conference on Consumer Electronics, Ramada, The O'Hare Inn, 6600 N. Mannheim Road, Des Plaines, Ill. 60018. See back page.
- 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.

POWER ENGINEERING SOCIETY HAS EXCELLENT PROGRAM

Future meetings of the Power Engineering Society should command as much interest as the October meeting did on High Voltage Direct Current in a Metropolitan Area. In addition to a talk on ERDA this month, future meetings are:

DATE	SUBJECT	SPEAKER	LOCATION
Jan. 20	AEP-ASEA UHV Project Test Station A Progress Report	Robert Schloman Indiana & Michigan Elec. Co.	Midland Hotel, Chicago, Ill. (Luncheon)
Feb. 24	Experiences with SF ₆ Substation and Transmission Equipment	Ray Swoish Westinghouse Electric Corp.	Midland Hotel, Chicago, Ill. (Luncheon)
Mar. 18	Substation Automation (Joint with WSE, West Suburban)	G. P. Gurr, General Electric Co.	Richard's, Hillside, Ill. (Evening)
Apr. 7	Transients in Electric Power Systems—Digital and Analog Simulations—State of the Art (Joint with Fox Valley Sub)	L. K. Wendahl McGraw-Edison	Spinning Wheel, Hinsdale, Ill. (Evening)
May 8	Tour of Collins Station Site Commonwealth Edison Company		Collins Station near Morris, Ill. (Morning, Luncheon Afterward)

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ERDA: GOALS AND RESEARCH PROJECTS

On November 20, Robert W. Flugum will address the Chicago Chapter of the Power Engineering Society concerning the Energy Research and Development Administration (ERDA). He will discuss the projected goals, projects to be undertaken and the economic consideration involved.

This topical program will be presented at a joint dinner meeting of the PES and ISPE at the Midland Hotel, 176 West Adams Street, Chicago, Social period will begin at 5:00 PM. A nominal charge will be made for dinner and a cash bar will be available.

All interested members and non-members are invited. For reservations, please call 236-4609 by Monday, November 17.

PROF. FULLER, III SPEAKER AT COMPUTER SOCIETY MEETING

Professor Samuel H. Fuller, III of Carnegie-Mellon University will be the speaker at the November 20 meeting of the Computer Society. Professor Fuller will speak on Computer Performance Measurements with Special Application to C.M.M.P.

The meeting will be held in the IBM Building Cafeteria, 400 N. Wabash Avenue, Chicago, Illinois. Social hour will begin at 5:30 PM followed by dinner at 6:30 PM and the meeting at 7:30 PM.

For reservations call the IEEE office, 236-4609.

ADAPTIVE ANTENNA SYSTEM SUBJECT AT AP/MTT MEETING

The Antennas & Propagation/Microwave Theory & Techniques Group will have Dr. Vitas A. Mikenas as speaker at their November 11 meeting. Adaptive Antenna System will be the subject of his talk.

The Black Steer Restaurant located at 6446 West North Avenue, Chicago, Illinois is the meeting locale. Social hour 6:00 PM; dinner will be at 7:00 PM and the meeting is scheduled for 8:00 PM. Call 236-4609, the IEEE office, for reservations

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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.

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TENTATIVE PROGRAM — FIFTH ANNUAL 1975 CHICAGO *Fall Conference* ON CONSUMER ELECTRONICS December 8-9, 1975 **Ramada The O'Hare Inn** 6600 N. Mannheim Road Des Plaines, Illinois 60018

MONDAY — 9:30 AM — December 8, 1975

SESSION I — DISPLAY SYSTEMS

Session Chairman: IVA M. WILSON
Zenith Display Devices R&D

- A. Design Principles of the RCA Large-Screen 110° Precision In-Line Color Picture Tube
A. M. MORRELL
RCA Design Laboratory
- B. Color Monitor Display
STEVE McNAY
Motorola Display Products
- C. Use of the SCR Deflection System to Achieve Power Line Isolation
W. F. DIETZ
RCA Corporation
- D. A New Trinitron Color TV With Beam-Scan Velocity Modulation
YUZO FUSE, SEISUKE YAMANAKA AND
TSUNENARI SAITO
Sony Corporation
- E. TV Set Energy Conservation From a Picture Tube Manufacturer's Point of View
MARTIN FISCHMAN AND JOSEPH HALLETT
GTE Sylvania Incorporated

CONSUMER AWARDS LUNCHEON 12:15 PM

Guest Speaker: DONALD G. FINK, Executive Consultant
The Institute of Electrical and Electronics Engineers, Incorporated
"Television's Technology—How Good Is It?
How Good Can It Be?"

MONDAY — 2:30 PM — December 8, 1975

SESSION II — NEW AREAS OF CONSUMER ELECTRONICS

- Session Chairman: HENRY P. LEE
General Electric Company
- A. Local Alarm Residential Security System
W. D. DRUMHELLER AND L. S. SCHMITZ
Westinghouse Electric Corporation
- B. Digital Time Products From Conception to Completion
ROBERT PETERSON
National Semiconductor
- C. Varactor Tuned Public Service Band Monitors
TIBOR G. CSICSATKA
General Electric Company
- D. Development of a New System of Cassette Type Consumer VTR
NOBUTOSHI KIHARA, FUMIO KOHNO AND
YOSHIO ISHIGAKI
Sony Corporation
- E. VHF Weather Band Radio, A New Consumer Electronics Market
WAYNE HOLST
Motorola Semiconductor Products, Incorporated

MONDAY — 6:00 PM — COCKTAIL HOUR

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TUESDAY — 9:30 AM — December 9, 1975

SESSION III — MODERN SIGNAL PROCESSING TECHNIQUES

Session Chairman: JUDSON HOFMANN
Zenith Radio Corporation

- A. A New Approach for Varactor TV Tuner Design
JOHN MA
Zenith Radio Corporation
- B. Simplified Time-Division Color Signal Multiplexing for Video Disc and VRT Using a New Solid-State Memory
HISASHI NAKAMURA, SEIICHI MITA AND
KENJI TAKAWASHI
Central Research Labs, Hitachi, Limited
- C. A Uniquely Simplified TV Tuning System Incorporating an Equally Unique Digital Automatic and Manual Fine Tuning Scheme
STEVE HILLIKER
Motorola, Semiconductor Products, Incorporated
- D. A Programmable TV Receiver
N. KOKADO, Y. KUDO, T. SHIGEMATSU AND
S. TAKEHARA
Tokyo Shibaura Electric Company, Limited

E. A New Low Level Luminance Processing System
J. P. BINGHAM, M. N. NORMAN, R. L. SHANLEY AND
B. YORCANIS
RCA Laboratories and RCA Consumer Electronics

TUESDAY — 2:30 PM — December 9, 1975

SESSION IV — MODERN SIGNAL PROCESSING TECHNIQUES — INVITED PAPERS

Session Chairman: NORMAN PARKER
Motorola

- A. A Quadraphonic F.M. Broadcasting System Incorporating Pilot-Control Compression and Pre-Emphasis
PIETER FOCKENS AND CARL G. EILERS
Zenith Radio Corporation
- B. Signal Processing in the SQ® Logic System
TED HANNA
Motorola, Phoenix
- C. Phase Locked Loops Using Quadrature Detector Integrated Circuits
JON P. GROSJEAN
GTE Sylvania, Incorporated
- D. The Quantitative Colorimetric Effects of Differential Gain and Differential Phase Distortions in NTSC Color Television Pictures
C. BAILEY NEAL
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