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Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • November 1977

CALENDAR OF EVENTS

*For reservations call the IEEE office at 236-4609 (unless otherwise indicated).
Mark your Scanfax calendar. Copy deadline: First day of the previous month.*

November

- 2 Fox V. Sub. (j w/VT Grp. & SAE) — Branding Iron, 3131 Finley, Downers Grove; dinner 7:00 PM, meeting 8:00 PM. Subject: "Automotive Electronics."
- 8 IEEE Executive Committee — Monthly meeting will be held in conjunction with MIDCON/77. Members will be notified of time and place.
- 8-10 Co-sponsored by Regions 4 & 5 IEEE, Mid-U.S. Council ERA, Chicagoland & Southwest Chapters ERA — O'Hare Exhibition Center & Hyatt Regency O'Hare Hotel. Event: MIDCON/77.
- 8-11 Sponsored by the Computer Soc. — Sheraton O'Hare Hotel. Event: COMPSAC '77.
- 9 IAS/IECI (j w/PES) — Nielsen's Village, 7330 W. North Ave., Elmwood Park; cocktails 5:30 PM, dinner 6:15 PM, meeting 7:15 PM. Subject: "Consumer Appliances." Ladies' Nite.
- 9 VT Grp. — Lancer Steak House, 50 E. Algonquin Rd., Schaumburg; dinner 7:00 PM, meeting 8:00 PM. Subject: "What Every Engineer Should Know About Patent Law But Probably Doesn't."
- 12 Relia. Grp. — GTE Automatic Electric Labs., 400 N. Wolf Rd., Northlake; 8:30 AM-1:00 PM. Event: "Reliability Techniques" — 2nd Annual Tutorial School.
- 16 NW Sub. — Maitre D' Rest., 111 E. Higgins Rd., Elk Grove Village; cocktails 6:00 PM, dinner 7:00 PM, meeting 8:00 PM. Subject: "Zion Nuclear Power Station."
- 16 PES — Stouffer's Rest., 32 E. Randolph St., Chicago; cocktails 11:15 AM, lunch 11:45 AM, program follows. Subject: "Best Bets for Energy Storage."
- 17 Comms. Soc. — Illinois Bell Telephone Co., 225 W. Randolph St., 20th Fl. Dining Complex, Chicago; hot buffet dinner 6:30 PM, meeting 7:30 PM. Subject: "Light Wave Communications Systems." Reservations limited.

December

- 5-6 Event: 7th Annual 1977 Fall Conference on Consumer Electronics; Ramada O'Hare Inn, 6600 Mannheim Rd., Rosemont. For details call Ray Hayden at 289-6100.
- 7 Fox V. Sub. (j w/PES) — Andy's Steak House, 17W611-22nd, Oak Brook; dinner 7:00 PM, meeting 8:00 PM. Subject: "Energy Alternatives."
- 13 IEEE Executive Committee — Members will be notified of time and place.
- 14 IAS/IECI — Nielsen's Village, 7330 W. North Ave., Elmwood Park; cocktails 5:30 PM, dinner 6:15 PM, meeting 7:15 PM. Subject: "New Methods in Lighting."
- 15 Comms. Soc. — Maitre D' Rest., 111 E. Higgins Rd., Elk Grove Village; cocktails 6:00 PM, dinner 7:00 PM, meeting 8:00 PM. Subject: "New Methods of Digital Speech & Coding." For reservations call Bob Pershing at 969-8800, ext. 11.

"WHAT YOU AND YOUR WIFE ALWAYS WANTED TO KNOW ABOUT . . ."

An independent microwave cooking consultant, Irene Dekker will present "What You And Your Wife Always Wanted To Know About Microwave Ovens But Were Afraid To Ask Your Engineer" on Wednesday, November 9, 1977. A demonstration on microwave cooking will be given. She will discuss the operation of the oven as well as what it can, or cannot do. High point will be audience participation culminating in a drawing for a roast prepared during the demonstration.

The microwave ovens are made available by courtesy of Mr. P. G. Gariti, Manager, Retail Sales Administration of the Large Appliance Division of General Electric in Chicago.

This joint Ladies' Nite meeting is being co-sponsored by the Industrial Applications Society/Industrial Electronics Control Instrumentation Group and the Power Engineering Society. It will be held at Nielsen's Village, 7330 West North Avenue, Elmwood Park. Cocktails 5:30, dinner 6:15 and meeting 7:15 P.M. Call 236-4609 for reservations.

"BEST BETS FOR ENERGY STORAGE"

On Wednesday, November 16, 1977 the Power Engineering Society will present a luncheon program "Best Bets For Energy Storage" at Stouffer's Restaurant, 32 East Randolph, Chicago.

The speaker will be Robert Beckwith of Commonwealth Edison Company who will discuss the types of storage systems suitable for utilities. Various programs now under way with ERDA will also be covered.

Cocktails 11:15, lunch 11:45 followed by the program. For reservations call the IEEE office, 236-4609.

"WHAT EVERY ENGINEER SHOULD KNOW ABOUT PATENT LAW BUT PROBABLY DOESN'T"

Mr. Roy E. Hofer, a partner in the law firm of Hume, Clement, Brinks, Willian & Old Ltd., will be the speaker at the meeting of the Vehicular Technology Group on Wednesday, November 9, 1977.

Mr. Hofer joined the law firm after graduating from Purdue with a Bachelors Degree in Chemical Engineering and obtained a J.D. Degree from Georgetown University. Since becoming a partner in the firm, he has been primarily involved in litigation matters relating to patents, trade secrets and related anti-trust areas. His work has included general counseling which includes licensing and the supervision of patent application work. His firm specializes in intellectual property matters.

Lancer's Restaurant located in Schaumburg at the junction of Meacham and Algonquin Roads is the meeting locale. Dinner will be at 7:00 P.M.; cost \$7.50 including tax and tip. For reservations call Dan Clark at 576-6567.

NW SUBSECTION PRESENTING PROGRAM ON ZION STATION

Mr. Howard Schutter, Station Electrical Engineer on the Zion Technical Staff will be the guest speaker at the Northwest Subsection meeting on Wednesday, November 16, 1977.

His subject will be the Diesel Generator fire which occurred at Zion on September 17, 1976. This fire was due to an unforeseen sequence of events resulting in loss of equipment control. He will discuss the causes, results and corrective actions of this incident along with the regulatory ramifications.

The Maitre D' Restaurant, 111 East Higgins Road in Elk Grove Village will be the meeting location. Cocktails 6:00, dinner 7:00 and the meeting 8:00 P.M. Call the IEEE office (236-4609) for reservations.

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Change of Address

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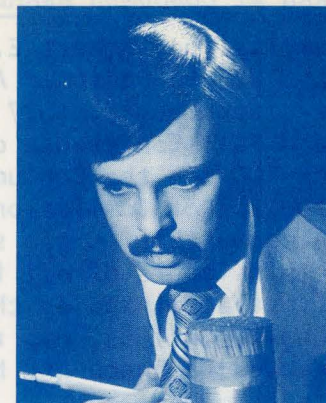
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"LIGHT WAVE COMMUNICATIONS SYSTEMS"

Do you know the benefits and tremendous future of communicating over glass fibers — including domestic applications such as piping your stereo or TV around your home? Do you know that TV, data and conversations are being sent over glass fibers in the Chicago Loop?

Be sure to attend the talk and group discussion by Bruce Simmer of Illinois Bell Telephone Company on the evening of Thursday, November 17, 1977. He will cover the details of the "Chicago Project" — also the theory, capabilities and future of light wave communications. Slides will be shown covering lasers, optical equipment and the Chicago cable installation. Samples of light guides and circuitry will be exhibited at this informative meeting which will be held at the Illinois Bell Telephone Company 20th Floor Dining Complex, 225 West Randolph Street, Chicago. Sponsored by the Communications Society, the meeting will be held at 7:30 P.M., preceded by a hot buffet dinner at 6:30 P.M. Reservations are limited. The cost is \$6.50. Call 236-4609, the IEEE office, for reservations.



GROUPS/SOCIETIES 1977-78 OFFICERS AND COMMITTEE CHAIRMEN

Communication Society:

Chairman — George Wendt — Teletype Corporation, 5555 West Touhy Avenue, Skokie 60076 (office) 982-3731 (residence) 966-7644

Vice Chairman — Bernard Pepping — Wescom, Inc., P. O. Box 458, Downers Grove 60521 (office) 654-3680, ext. 19

Secretary — Robert Pershing — Tellabs, Inc., 2206 Wellington, Lisle 60532 (office) 969-8800, ext. 11

Power Engineering Society:

Chairman — Tom Traub — Commonwealth Edison Company, P. O. Box 767, Chicago 60690 (office) 294-2703 (residence) 423-1615

Vice Chairman — Dave Schroeder — Sargent & Lundy, 55 East Monroe Street (24H51), Chicago 60603 (office) 269-2201 (residence) 837-5123

Secretary/Treasurer — A. Don Taylor — Sargent & Lundy, 55 East Monroe Street (25D46), Chicago 60603 (office) 269-2038 (residence) 729-4684

Program — William McCarty — Gould, Inc., Electrical Systems Group, 10 Gould Center, Rolling Meadows 60068 (office) 640-4631 (residence) 815: 728-0608

Arrangements — Ken Rooney — Commonwealth Edison Company, One First National Plaza (35 FN West), Chicago 60690 (office) 294-8293 (residence) 452-8915

Publicity — Carl Schwarz — Sargent & Lundy, 55 East Monroe Street (26D27), Chicago 60603 (office) 269-2030 (residence) 687-0492

Member Services — Jim Keller — Harza Engineering Company, 150 South Wacker Drive, Chicago 60606 (office) 855-7284 (residence) 971-3491

PES Volunteers — Mark Bailey — Commonwealth Edison Company, One First National Plaza (36 FN West), Chicago 60690 (office) 294-8437 (residence) 274-1761

Reliability Group:

Chairman — Henry Malec — GTE Automatic Electric Laboratories, Inc., Box 2317 (Dept. 460 A-6), Northlake 60164 (office) 562-7100

Vice Chairman — Raymond Schirmer — ITT Telecommunications, 2000 South Wolf Road, Des Plaines 60018 (office) 297-5320

Secretary — Paul Clawson — KGA Engineering Company, Inc., 1701 South First Avenue, Maywood 60153 (office) 343-6500

Treasurer — Dr. Stanley Anderson — Commonwealth Edison Company, P. O. Box 767, Chicago 60690 (office) 294-2783

Membership — Hugh Edfors — GARD Inc., 7449 North Natchez Avenue, Niles 60648 (office) 647-9000

SPEAKER AT CONSUMER AWARDS LUNCHEON

Commissioner Robert E. Lee, FCC, Washington, D.C., will speak at the Consumer Awards Luncheon being held on Monday, December 5, 1977 in conjunction with the 7th Annual Chicago Fall Conference on Consumer Electronics. "Thoughts on the FCC and the Consumer Electronics Industry" will be the subject of Commissioner Lee's talk.

Chicagoan Lee is the senior member of the FCC and Dean of Commissioners of all federal regulatory agencies. He was first appointed to the Commission by President Eisenhower in 1953, was reappointed by President's Eisenhower, Johnson and Nixon, and is currently serving his fourth term.

The locale of the Chicago Fall Conference is the Ramada O'Hare Inn located at 6600 Mannheim Road in Rosemont.



COURSE AND SEMINAR OFFERING

Mr. Thomas Dunsheath, an IEEE member, is conducting a series of short evening courses and seminars in Microprocessor Technology during the 1977-78 year in Glenview. Five series for engineers, programmers, technicians, teachers and executives are planned at various levels of interest; fundamentals, specific microprocessors and applications. Each course is for six weeks, three hours per week and is limited to 25 attendees with fees less than \$100.00. Saturday seminars and customized industrial in-plant courses are also being developed. For more information, write Tom at Northwest Technical Center, Inc., 1155R Waukegan Road, Glenview 60025, or call 312: 724-8536.

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CHICAGO FALL CONFERENCE

ON CONSUMER ELECTRONICS



7TH ANNUAL 1977

December 5-6, 1977

Monday AM - December 5, 1977

Session I - S. J. Lipoff* - Chairman

- A. "Consumer Electronics & The Commission"
M. Toia
FCC
- B. "Regulatory Aspects of Consumer Electronics Design"
R. Bell & J. Meyerhoff
Motorola
- C. "Interference to Consumer Products - The Broadcasters' Position"
G. Bartlett, C. Payne & N. Smith
NAB & Smith-Powstenko
- D. "Extent & Nature of TV Reception Difficulties Associated with CB Radio Transmission"
R. Smith
FCC
- E. "Citizens' Band Expansion & The Consumer Environment"
H. Beeman
GTE-Automatic

Monday - 12:15 pm - Dec. 5, 1977 Consumer Awards Luncheon: Commissioner Robert Lee
FCC, Washington, DC - "Thoughts on the FCC & The Consumer Electronics Industry"

Monday PM - December 5, 1977

Session II - S. J. Lipoff* - Chairman

- A. "An Overview of Type Approval Techniques for Class I TV Devices"
G. Dash
MIT
- B. "High-Performance TV Receiver"
D. Ash
TI
- C. "Using a One-Chip Microprocessor for TV Tuning & Remote Control"
E. J. Dreiske
Curtis-Mathes
- D. "One-Chip-Controlled Voltage Synthesizer TV Tuning System"
M. Sasaki, M. Fujita & S. Makino
Toshiba
- E. "A Low-Cost Varactor Tuning System for Television"
A. Borg
Magnavox

*Invited

Tuesday AM - December 6, 1977

Session III - C. Bailey Neal* - Chairman

- A. "High-Voltage Approach to Enhanced Color Tube Performance"
D. L. Say
GTE-Sylvania
- B. "Chrome Systems Trend in the Past & Future & Latest Chroma IC with Versatile Flexibility"
K. Mohri, H. Nabeyama & M. Ogumo
Hitachi
- C. "New Color TV Receiver with SAW IF Filter"
T. Murakami, Y. Noro & H. Nabeyama
Hitachi
- D. "SAW Devices for Use in a High-Performance TV Tuner"
W. Shreve & R. Stigall
TI
- E. "A Jumbo IC for Vertical Deflection & Video Signal Processing Circuits in TV Receivers"
T. Sugizaki, O. Fujita, H. Suango, M. Watanabe & A. Tanaka
Matsushita

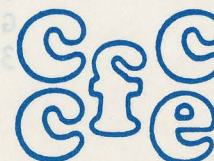
Tuesday PM - December 6, 1977

Session IV - J. Willhide* - Chairman

- A. "A New Magnetic-Focus Static-Deflection System for a Single-Tube Color Camera"
Y. Kubota, S. Tagawa, M. Sawai,
K. Namba & T. Kakisaki
Sony
- B. "Professional Productivity Improvements thru Personal Computing"
S. E. Prodromou
TI
- C. "Telephone Devices Registration Test & Measurement Procedures"
J. Trombly
Hewlett-Packard
- D. "Higher Integration for Tomorrow's Cassette/Tape Recorders"
M. Siligoni
SGS-ATES
- E. "New Voltage Regulators Integrate More Functions, Have Wider Applications Field"
F. Bertotti & S. D'Arrigo
SGS-ATES

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MIDCON/77

O'HARE EXPOSITION CENTER/HYATT REGENCY O'HARE

NOVEMBER 8, 9, 10, 1977

This is a short listing of the highlights of the *first* Midwest Electronic Show and Convention, MIDCON/77, to be held in the O'Hare Exposition Center and the Hyatt Regency O'Hare Hotel in Rosemont, Illinois on November 8 through 10, 1977.

EXHIBITS: New products of over 200 manufacturers showing their wares in some 375 exhibit units begin a new era for engineers and technologists in the Midwest. Exhibit hours in the O'Hare Exposition Center are: Tuesday 9:30 AM-6 PM; Wednesday 9:30 AM-9 PM; Thursday 9:30 AM-6 PM.

PROFESSIONAL PROGRAM: 30 half-day sessions will be presented in the meeting rooms of the Hyatt Regency O'Hare Hotel, which is just across the street from the O'Hare Exposition Center.

REGISTRATION: A single fee of \$5.00 covers admission to all exhibits and the Professional Program Sessions for all three days.

SPECIAL ATTRACTIONS

MARKETING WORKSHOP: An all-day program for manufacturers, sales representatives and electronics distributors will be held November 7 at the Hyatt Regency O'Hare. The workshop will be composed of three separate panels each addressing the needs of those involved in the marketing/sales function. Beginning at 2 PM there will be a microprocessor marketing workshop. (Fee: \$25.00 includes registration for MIDCON luncheon).

MIDCON LUNCHEON: Lewis H. Young, Editor-in-Chief of Business Week magazine, will deliver the keynote address in the Hyatt Regency O'Hare on Monday, November 7. (Fee: \$12.00).

MICROPROCESSOR SHORT COURSE: The Central Indiana Section of IEEE, with MIDCON, will co-sponsor a high-level microprocessor short course in the Hyatt Regency O'Hare beginning 9 AM Monday, November 7. Registration for this event will be \$75.00 for non-IEEE members; \$65.00 for members.

ALL-INDUSTRY RECEPTION: "Octoberfest - A Harvest of Technology" will be held in the ballrooms of the Hyatt Regency O'Hare on Tuesday evening, November 8. A Tyrolean band will entertain while you feast on wine, cheese, sausage, fruit and all the beer you can drink. (Fee: \$9.50).

COMPSAC CONFERENCE: Occurring concurrently with MIDCON/77 is the *premier* of the IEEE Computer Society Conference on Software and Applications; November 8-10 at the Sheraton O'Hare Hotel.

SHUTTLE BUS SERVICE: Various hotels in the Rosemont area will be the loading locations for the "no charge" shuttle service to MIDCON/77.

FOR MORE DETAILED INFORMATION CONTACT:

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Glenview, Illinois 60025
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