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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

MAY	2	"UHV Bulk Power Transmission"	Fox Valley Sub.	The Tally-Ho Rest. 27W103 North Ave. West Chicago	Dinner Meeting	7:00 PM 8:00 PM
	5	Seminar	Indus. Appls. Soc. & Indus'l Electronics Control Instrumenta.	Fermilab Kirk Rd. & Pine Batavia	8:00 AM - 4:15 PM (Call George Thomas 963-7070)	
	8	Monthly Meeting - ALL WELCOME	IEEE Executive Cte.	Brown & Root Offices 2001 Spring Rd. Oak Brook	Meeting	7:30 PM
	9	"Solid State Controls"	Indus. Appls. 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
	12	MAC '79 (Midwest Acoustics Conference)		Norris Center Northwestern Univ. Evanston	9:00 AM - 5:30 PM (Call Bill Bevan 866-2364)	
	16	"System Analysis for ICM Complex"	Reliability Soc.	Holiday Inn Algonquin Rd./Rt.53 Rolling Meadows	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
	19	Tour - FAA Chicago Air Traffic Control Center	Fox Valley Sub.	Aurora	10:00 AM - 1:00 PM	
	21	Tour - Sears Tower & 138 KV Substation	Power Engrng. Soc.	Franklin & Adams Sts. Chicago	Tour Dinner	5:30 PM 7:00 PM
	30	"Optimizing Time Delay & Control Relay Performance"	Northwest Sub.	7 Stars Rest. 111 E. Higgins Rd. Elk Grove Village	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
JUN	4-5	20th Annual Chgo. Spring Conf. on Consumer Elec'ncs	IEEE, BCCES & Chicago Section, IEEE	Arlington Pk. Hilton Euclid Av/Rohlwing Rd Arlington Heights	(Call Christ Dumas at 722-7727)	
	12	Monthly Meeting - ALL WELCOME	IEEE Exec. Cte.	Brown & Root Offices 2001 Spring Rd. Oak Brook	Meeting	7:30 PM

CHICAGO SECTION ELECTS OFFICERS AND EXECUTIVE COMMITTEE

The Chicago Section of the IEEE has elected their 1979-80 Officers and Executive Committee members. Voting was by ballot printed in the February issue of Scanfax. Officers elected are:

Chairman	-	Charles Hatstat
		Sargent & Lundy
Vice Chairman	-	Paul Geiger
		Allen-Bradley Company
Treasurer	-	Howard Wolfman
		Teletype Corporation
Secretary	-	Dennis Lamont
		Weldy-Lamont Associates, Inc.

Members of the Executive Committee elected by mail ballot are:

Michael Barnes	-	Motorola, Inc.
Charles Borchert	-	Bell Telephone Laboratories
Charles Brigham	-	Illinois Bell Telephone Company
William Everson	-	Commonwealth Edison Company
Robert Scheman	-	A T & T Long Lines
Dave Schroeder	-	Sargent & Lundy
John Tyner	-	Cleworth Publications

The Executive Committee also includes the chairmen of both the Fox Valley and Northwest Subsections and the chairmen of each of the active group or society chapters. According to the Chicago Section Bylaws, they are automatically members of the Executive Committee and do not have to be voted upon by the membership.

RELIABILITY PRESENTING "SYSTEM ANALYSIS FOR ICM COMPLEX"

The Chicago Chapter of the Reliability Society will have as its speaker on Wednesday, May 16, 1979 Hugh C. Edfors of Gard, Inc. The objective of the talk is to describe how cost effective redundant system configurations can be determined using down time and failure rate reliability parameters. A new technique called "Criticality Analysis" will be presented to show the effects of Reliability/Availability/Maintainability (RAM) on monthly production of processed projectiles. A computer simulation language called Gen Mod will also be described.

The cost of a chicken dinner is \$8.50, tax and tip included. The meeting will be held at the Holiday Inn, Algonquin Road - Route 53, Rolling Meadows. Cocktails at 6:00 PM, dinner 7:00 PM and meeting 8:00 PM. For reservations call the IEEE office at 236-4609. For further information on the technical meeting call Ray Schirmer, Reliability Society Chairman at 297-5320, extension 407.

EUGENE MITTELMANN RECEIVES DISTINGUISHED ACHIEVEMENT AWARD

The Industrial Electronics and Control Instrumentation Society of the IEEE presented a Distinguished Achievement Award to Eugene Mittelman, E.E., Ph.D., P.E. on March 20, 1979 in Philadelphia. Dr. Mittelman, a Life Fellow of the Institute and Co-founder of the Society was given the award "for his forty years of service to the electrical engineering profession for a lifetime of scientific, technical and personal achievement and for his leadership and counsel to the Institute and the Society." He is also a Fellow of the Instrument Society of America and the American Association for the Advancement of Sciences.

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ENGINEERING FOUNDATION FELLOWSHIPS GRANTS FOR 1980

GENERAL - The Engineering Foundation has announced the availability of Engineering Foundation Fellowships during 1980 for state-of-the-art reviews in fields recommended by its Founder Societies. The program is directed toward members of engineering faculties and industrial specialists who have established a professional reputation through publications. A grant of \$5,500.00 will be awarded on a competitive basis to a member of each of the Founder Societies for a proposed research review in a field of direct interest to his Founder Society.

PROPOSED REVIEWS - shall provide an analysis in depth of a specific field including recommendations on engineering research needed to advance the state-of-the-art of that field. A list of recommended fields will be available upon request from the Executive Officer of his professional society.

EVALUATION AND SELECTION OF PROPOSALS - shall be sent to the Executive Officer of his professional society. A panel organized by his professional society will evaluate and select meritorious proposals. They will be submitted (in rank order) to the Projects Committee of the Engineering Foundation who will make the final selection of a proposal for each of the Founder Societies for submission to the Board of the Engineering Foundation for final approval.

DEADLINE - proposals being submitted to the Founder Societies must be postmarked by June 1, 1979. Proposals selected by the Founder Societies for submission to the Projects Committee of the Engineering Foundation must be postmarked by August 1, 1979.

ANNOUNCEMENT OF FELLOWSHIPS - selected Fellows shall be notified by letter from the Secretary of the Engineering Foundation on or about January 1, 1980 with copies to their Founder Societies. The Fellowships will be effective as of February 1, 1980.

FINAL REPORT - a final report shall be submitted to the Engineering Foundation and to the Founder Society by each Fellow for publication. The Engineering Foundation reserves publication rights. Appropriate recognition of the Engineering Foundation and the cooperating Founder Society must be prominently displayed on the title page of the publication.

PAYMENTS - the Engineering Foundation will provide 50% of the grant at the start of the Fellowship and 50% at the end of the Fellowship when the final report is presented.

SPONSORS - the Engineering Foundation Fellowships is sponsored by the Engineering Foundation with the cooperation of its founder societies which are: American Society of Civil Engineers, American Institute of Mining, Metallurgical and Petroleum Engineers, The American Society of Mechanical Engineers, Institute of Electrical and Electronics Engineers, American Institute of Chemical Engineers.

FURTHER INFORMATION - contact Dr. Neil D. Pundit, IEEE Director of Technical Activities at 212: 644-7890.

POWER ENGINEERING SOCIETY CONDUCTING TOUR OF SEARS TOWER

The Power Engineering Society will conduct a tour of Sears Tower and 138 KV Substation on Monday - May 21, 1979. The tour will begin promptly at 5:30 PM and will include electrical equipment on the 29th floor of the building. Sears Tower is located on Franklin and Adams Streets, Chicago.

For those who may wish to have dinner at the conclusion of the tour, arrangements have been made with Franklin Inn, located on lower level one, for dinner at 7:00 PM.

The Observation Deck will be available at reduced rates to those interested.

When phoning in your reservation to the IEEE office (236-4609) please indicate if you will take the tour only, tour and dinner, or tour - dinner - Observation Deck.

Meeting place will be the Franklin Street lobby.

"OPTIMIZING TDR PERFORMANCE" BY NORTHWEST SUBSECTION

Mr. Joe Tonini of Amerace's Control Products Division will be the guest speaker at the Northwest Subsection dinner meeting on Wednesday - May 30, 1979. The accuracy and stability of a solid state time delay relay (TDR) is dependent on the control circuit used to generate the time delay. Optimizing the TDR's performance requires selecting a control circuit that will minimize the errors that cause variations and degrading with age.

Mr. Tonini's discussion will compare solid state techniques for generating a time delay. The comparison will be made in terms of the twelve critical accuracy-determining parameters which are: Calibration Accuracy; Settability (Resolution, Linearity); Repeat Accuracy; Long-Term Stability; Temperature Sensitivity; Line-Voltage Sensitivity; Line Frequency Sensitivity; Line-Sag Tolerance; Line-Transient Tolerance; Self-Heating Effects; Quantization Error; Retrace Errors. The presentation will conclude with a brief discussion on the enhancement of control relay power rating and switching versatility.

The 7 Stars Restaurant, 111 East Higgins Road in Elk Grove Village is the meeting locale. Cocktails 6:00 PM, dinner 7:00 PM and meeting 8:00 PM. Call the IEEE office at 236-4609 for reservations.

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MONDAY JUNE 4, 1979 20TH ANNUAL CHICAGO SPRING CONFERENCE ON CONSUMER ELECTRONICS

I. A. TELETEXT/VIEWDATA SYSTEMS

ROOM A

- Sessions Chairman & Organizer: Walter S. Ciciora Ph.D.
Zenith Radio Corp.
- 9:00 1. *Introduction to Consumer Text Display Systems*
W. Ciciora, G. Sgrignoli,
W. Thomas
Zenith Radio Corp.
- 9:25 2. *"Teletext"—Evolution and Potential*
N. Tanton
BBC Research Department
- 9:50 3. *The Antiope Videotex System*
B. Marti
CCETT Rennes, France
- 10:15 Coffee Break
- 10:30 4. *Tehton: A New Approach to Videotext System Design*
H. Bown, C. O'Brien, W. Sawchuk, J. Storey
Federal Dept. of Communications
Ottawa, Canada
- 10:55 5. *Videotext Services: Network and Terminal Alternatives*
J. Costa, A. Chitnis
Bell-Northern Research
Ottawa, Canada
- 11:20 6. *Telesoftware*
J. Hedger
Independent Television, U.K.
- 11:45 Meet The Authors

I. B. VIDEO TAPE RECORDING

ROOM B

- Sessions Chairman: John Logeman
C.A. Laboratories
- 9:00 1. *A New Portable Video Tape Recorder*
M. Ozawa, H. Yokota, F. Machida, T. Tanizoe
Hitachi, Ltd.
- 9:25 2. *Digital Signal Processing LSI for Home VTR Servo Circuitry*
S. Tanaka, M. Tamura, M. Mawatari,
A. Nagae, H. Ito
Toshiba Corp.
- 9:50 3. *Automatic Assembly Recording System for a Portable VTR*
I. Fukushima, H. Nishijima, H. Yokota
Hitachi, Ltd.
- 10:15 Coffee Break
- 10:30 4. *Very Low Noise Dual Pre-Amplifier with Auto-reverse Facility for Cassette Players*
C. Cini, E. Casini, B. Murari
SGS-ATES
- 10:55 Meet the Authors

I. C. RADIO TUNING

ROOM C

- Sessions Chairman: Larry Brown
Quasar
- 9:00 1. *High Performance AM/FM Radio Integrated Circuit*
W. Jett
National Semiconductor
- 9:25 2. *A Pseudo-Closed-Loop Tuning System and Its Application in Radio Receivers*
H. Rinderle, C. Malinowski
AEG-Telefunken
- 9:50 3. *Thin Radio Receiver by Using PLL Synthesizer Digital Tuning Techniques*
S. Miki, T. Nyuji, S. Ninomiya,
M. Kaneko
Matsushita Electric
- 10:15 Coffee Break
- 10:30 4. *Voltage Synthesized Electronic Tuning System LSI for AM Radio*
S. Ikeguchi, K. Tanaka, N. Yamashita
Sanyo
- 10:55 5. *A Digital Tuning System for a Battery Driven AM/FM Receiver*
T. Nyuji, S. Miki, S. Ninomiya,
M. Kaneko
Matsushita Electric
- 11:20 Meet the Authors

6:00 INDUSTRY COCKTAIL PARTY—ADMISSION BY REGISTRATION BADGE ONLY
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20TH ANNUAL
CHICAGO SPRING CONFERENCE
ON CONSUMER ELECTRONICS

12:00 LUNCHEON

Guest Speaker: Burkhardt H. Schneider,
Candidate for IEEE President



II. A. TELETEXT/VIEWDATA IN THE U.S.

ROOM A

- 2:00 1. *Teletext & Viewdata Systems And Their Possible Extension To Europe and The U.S.*
G. Crowther
Mullard Limited, U.K.
- 2:25 2. *INFO-TEXT, Newspaper of the Future*
W. Gross
Micro TV Inc.
- 2:50 3. *Touch Tone Teletext, A Combined Teletext/Viewdata System*
W. Loveless
Bonneville International Corp.
- 3:15 Coffee Break
- 3:30 4. *CBS Teletext Field Tests*
R. O'Connor
CBS Television Network
- 3:55 5. *System and Hardware Considerations of Home Terminals With Telephone Computer Access*
J. Blank
GTE Labs
- 4:20 6. *Four Futures for Teletext and Viewdata*
R. Johansen, M. Nyhan,
R. Plumm
Institute for the Future
P. Holmlov
Swedish Parliamentary Committee
- 4:45 Meet the Authors

II. B. DISPLAY

ROOM B

- Sessions Chairman: Ken Fulton
Quasar
- 2:00 1. *High Performance Electron Guns for Color TV—A Comparison of Recent Designs*
C. Davis, D. Say
Sylvania
- 2:25 2. *Development of New Electron Gun for Color Picture Tubes*
S. Washino, Y. Ueyama, S. Takenobu
Mitsubishi Electric
- 2:50 3. *Pincushion Distortion Free Self Convergence Deflection System*
T. Maruyama, I. Niitsu, K. Osakabe
Hitachi, Ltd.
- 3:15 Coffee Break
- 3:30 4. *New Color Video Projection System with Glass Optics and Three Primary Color Tubes for Consumer Use*
N. Itoh, K. Kobayashi, T. Shioda, A. Ohkoshi
Sony
- 3:55 5. *Pictures of Deflected Electron Spot from a Computer*
M. Carpenter, B. Lucchesi
Sylvania
- 4:20 Meet the Authors

II. C. R.F. TUNING

ROOM C

- Sessions Chairman: Gil Hermeling
RCA
- 2:00 1. *Fast ECL Dividers for TV Applications*
M. Huber, Fenk
Siemens
- 2:25 2. *Low Power Frequency Divider with a New Swallowing Technique for an FM Receiver*
K. Kimura, T. Takahashi, T. Nakamura,
H. Nakashiba, H. Yamane
Nippon Electric Company
- 2:50 3. *One Chip Digital AM/FM Frequency and Clock Indicator Using Improved I-Squared-L Technology*
K. Kanzaki, K. Ichinose, K. Aoki,
A. Furukawa, M. Taguchi,
Y. Tokumara, M. Nakai,
N. Miura, J. Sano
Toshiba
- 3:15 Coffee Break
- 3:30 4. *A Novel Frequency Processing Method and Its Implications in Future Tuning Systems*
C. Malinowski, H. Rinderle, M. Siegle
AEG-Telefunken
- 3:55 5. *Monolithic ECL I-Squared-L Phase Locked Loop Frequency Synthesizer for AM/FM/TV*
K. Mueller, C. Wu
National Semiconductor
- 4:20 Meet the Authors



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CSC 79 20TH ANNUAL CHICAGO SPRING CONFERENCE ON CONSUMER ELECTRONICS

JUNE 4 & 5, 1979

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TUESDAY, JUNE 5, 1979 20TH ANNUAL CHICAGO SPRING CONFERENCE ON CONSUMER ELECTRONICS

III. A. TELETXT/VIEWDATA HARDWARE

ROOM A

- Sessions Chairman & Organizer:** Walter S. Ciciora Ph.D.
Zenith Radio Corp.
- 9:00 1. *Teletext and Viewdata Decoder Costs As Applied to the U.S. Market*
G. Crowther
Mullard Limited, U.K.
- 9:25 2. *Technology and System Design Considerations For Second Generation Teletext Decoders*
R. Parsons
Texas Instruments, U.K.
- 9:50 3. *Teletext LSI*
A. McDonald
General Instruments Microelectronics
Scotland
- 10:15 Coffee Break
- 10:30 4. *Antiope LSI*
J. Ruelle
Texas Instruments, France
- 10:55 5. *An Integrated Serial to Parallel Converter for Teletext Application*
E. Swanson, B. Sutula
California Institute of Technology
- 11:20 6. *Teletext Signal Generation Equipment and Systems*
P. Mothersole
V.G. Electronics, U.K.
- 11:45 Meet the Authors

III. B. AUDIO

ROOM B

- Sessions Chairman:** Mike Fingh
Magnavox
- 9:00 1. *New LSI Single Chip Organ with Solo and Accompaniment*
G. Ravaglia
SGS-ATES
- 9:25 2. *High Performance Combination Head for Cassette Metal Tapes*
N. Suzuki, T. Ketori, I. Oshima,
M. Yamada
Hitachi, Ltd.
- 9:50 3. *New Configuration Using a Voltage Controlled Amplifier for a Dolby System Integrated Circuit*
T. Yamaguchi, S. Takaoka, K. Aizawa
Pioneer Electronic Corp.
- 10:15 Coffee Break
- 10:30 4. *Second Generation TV Sound Channel Implements More Functions and Improves Performance*
S. Gatti, P. Menniti
SGS-ATES
J. Weigand
Zenith Radio
- 10:55 Meet the Authors

III. C. MICROPROCESSORS

ROOM C

- Sessions Chairman:** John Welk
Motorola
- 9:00 1. *Microcomputers: Heritages and Future*
W. Huston
Motorola
- 9:25 2. *Microcomputer Based Remote Control System for TV Receivers*
Y. Tsuboi, Y. Ansai
Matsushita Electric
- 9:50 3. *Microcomputer Controlled Remote Control System and Station Memory*
R. Deubert
ITT
- 10:15 Coffee Break
- 10:30 4. *Microprocessor Controlled Memory Tuning System*
D. Heuer
Magnavox
- 10:55 5. *Microprocessor Based TV Frequency Synthesizer with Automatic Fine Tuning*
G. Caironi
SGS-ATES
- 11:20 Meet the Authors



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- 12:00 LUNCHEON: Zworykin Award Presentation
Guest Speaker: Irwin Feerst,
Candidate for IEEE
President



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IV. A. TELETXT/VIEWDATA

ROOM A

- 2:00 1. *Impairment of TV Picture and Teletext Data Reception by Echoes and Other System Distortions*
C. Neal, S. Goyal
GTE Consumer Electronics Products Co.
- 2:25 2. *Improving Reception of TV Picture & Teletext Transmissions Impaired by Echoes Resulting from Multipath and Other Sources*
S. Goyal, S. Armfield
GTE Consumer Electronics Products Co.
- 2:50 3. *Set Top Adapter Considerations for Teletext*
H. Prosser
Oak Communications Inc.
- 3:15 Coffee Break
- 3:30 4. *The Television Design Aspects For Employing Teletext LSI*
T. Suzuki, Y. Okada, H. Yoneta, R. Jones
Sony
- 3:55 5. *Tele-Briefs, A User Selectable Real Time News Headline Service for Cable TV*
R. Baer
Sanders Associates, Inc.
- 4:20 Meet the Authors

IV. B. TELEVISION TOPICS

ROOM B

- Sessions Chairman:** Ken Skinner
Magnavox
- 2:00 1. *Automatic Channel Indicating System with SAW Device*
T. Murata, S. Matsuura, K. Hazama
Hitachi, Ltd.
- 2:25 2. *Compact Television Set with Low Power Consumption*
I. Yashima, T. Kohrita, T. Kitao
Matsushita Electric
- 2:50 3. *Quasi-Parallel Sound IC for Improved TV Tone Quality*
H. Kriedt, M. Huber
Siemens
- 3:15 Coffee Break
- 3:30 4. *A Digitized Automatic Ghost Canceller*
J. Murakami, K. Ohzeki, K. Ogi
Toshiba
- 3:55 5. *A New Chroma Processing Integrated Circuit*
C. Engel, G. Tzakis
Zenith Radio
- 4:20 Meet the Authors

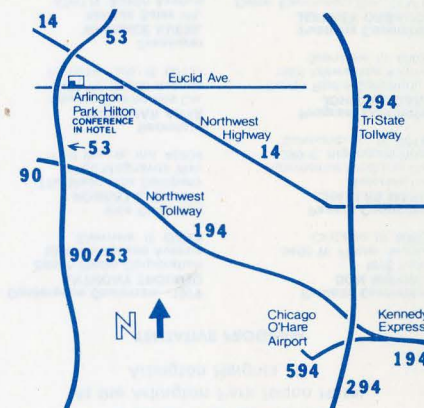
IV. C. GENERAL INTEREST

ROOM C

- Sessions Chairman:** John Zdenik
Teletype
- 2:00 1. *Universal Video Interface*
K. Li
Signetics
- 2:25 2. *Video Display Generator Converts Microprocessor Information into a Color TV Display*
J. Farrell
Motorola
- 2:50 3. *14 Pin Timekeeping Device Offers Low Cost and the Earliest Approach to the Clock Function of Microprocessor Applications*
I. Fujitaka
Nippon Electric Company
- 3:15 Coffee Break
- 3:30 4. *A New IC Pair for Radio Remote Control Applications*
K. Lacanette, D. Monticelli, R. Page
National Semiconductor
- 3:55 5. *A Monolithic Pulse-Proportional Servo IC for Radio Control Applications*
J. Silverman
Exar Integrated Systems
- 4:20 Meet the Authors

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