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CHICAGO SECTION • IEEE • INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

MAY 1976

NATIONAL CONFERENCE ON ELECTROMAGNETIC SCATTERING

A National Conference on Electromagnetic Scattering will be held at the University of Illinois at Chicago Circle from Tuesday, June 15, through Friday, June 18, 1976, with support from the US Air Force Office of Scientific Research. The conference will address the basic research problems in electromagnetic scattering that are relevant to the mission-oriented goals of the US Air Force. The purpose of the conference is to bring together scientists from air force, army,

and navy laboratories; universities; and industry to assess the present state of the art and to outline the most important areas of future research and the most promising ways of performing such research during the next decade so as to maximize its usefulness to the development of effective aerospace systems.

The conference will be unclassified and its attendance unrestricted. It will consist of invited and contributed papers and panel discussions. The contributed

papers should either describe long-term research efforts, or address new techniques with a wide range of applications to scattering problems. Deadline for abstracts is April 15.

For further information, write or call: P. L. E. Uslenghi, Department of Information Engineering, University of Illinois at Chicago Circle, Box 4348, Chicago, Illinois 60680, telephone (312) 996-2317 or 3422.

CALENDAR OF EVENTS

*For Reservations Call the IEEE Office at 236-4609
(Unless Otherwise Indicated)*

- May 1 Midwest Acoustics Conference, Norris Center, Northwestern University, Evanston, Ill., McCormick Auditorium, 9:00 AM — 5:00 PM.
- 2 "Ladies Night," Fox V. Sub., Dinner/Theater Party, Pheasant Run Playhouse, Rt. 64, St. Charles, Ill., Dinner 5:30 PM; Curtain 7:30 PM.
- 4 IEEE Executive Committee Meeting; Brown & Root Offices, 2001 Spring Rd., Oak Brook, Ill., 7:30 PM — ALL WELCOME.
- 8 Tour of Commonwealth Edison Company's Collins Station Site, PES, Tour 9:30 AM; Luncheon 12:30 PM at Drakes Farm.
- 12 "Industrial Drives Systems," IECI/IAG, Nielsen's, 7330 W. North Ave., Elmwood Park, Ill., Social Hour 5:30 PM; Dinner 6:15 PM; Meeting 7:15 PM.
- 12 "Regional & Statewide Use of Radio by State & Local Government," VT Group. For information call Dan Clark at 576-6567.
- 15 IEEE Recognition Dinner, O'Hare Inn, Mannheim & Higgins Rds., Rosemont, Ill., Social Hour 6:00 PM; Dinner 7:00 PM.
- 19 Bus Tour of Accelerator Research Facilities Div., Argonne National Lab., Argonne, Ill., NW Sub., departing Randhurst Shopping Center in Mount Prospect, Ill. at 6:30 PM.
- 27 "Model 40 & System Applications," Communications Soc., Teletype Corp., 5555 W. Touhy, Skokie, Ill., Dinner 6:30 PM; Meeting 7:30 PM.
- June 1 IEEE Executive Committee Meeting; Brown & Root Offices, 2001 Spring Rd., Oak Brook, Ill., 7:30 PM — ALL WELCOME.
- 7-8 Chicago Spring Conference on Consumer Electronics, Marriott Motor Hotel, 8535 W. Higgins Rd., Chicago, Ill. (See back page for tentative program).
- 9 "Solid State Logic Control Systems," IECI/IAG, Nielsen's, 7330 W. North Ave., Elmwood Park, Ill., Social Hour 5:30 PM; Dinner 6:15 PM; Meeting 7:15 PM.

Deadline for copy: One month before date of issue

RECOGNITION DINNER, MAY 15

Saturday, May 15 is the date for the 1976 Recognition Dinner at the O'Hare Inn. An evening of entertainment, including hors d'oeuvres, dinner, dancing, and a floor show, is yours at the low price of \$15.00 per person. Send your check, made payable to Chicago Section IEEE, now to Joe Puca, Quasar, Inc., 9401 W. Grand Avenue, Franklin Park, Ill. 60131.

COMMUNICATIONS SOCIETY

The Communications Society Nominating Committee has selected the following candidates as officers for the 1976-77 season. If you are a Communications Society member, please mark your choice on the ballot below and return to: George Mack, HQ23D, Illinois Bell Telephone Company, 225 W. Randolph Street, Chicago, Ill. 60606.

Chairman: ☐ Jay Hemmady
Automatic Electric

☐ _____
(write-in)

Vice Chairman: ☐ George Wendt,
Teletype Corp.

☐ _____
(write-in)

Secretary: ☐ Bernie Pepping
Wescom, Inc.

☐ _____
(write-in)

If you wish to vote for another member of the Chicago Chapter, Communications Society for one of these posts,

Communications Society (S-19) Election

Members of the Chicago Chapter, IEEE Communications Society are requested to fill out the following ballot for 1976-77 officers and return by mail on or before May 15, 1976.

Communications Society (S-19)
1976-1977

Nominees for office:

Jayant Hemmady — Automatic Electric — Chairman ☐

George Wendt — Teletype Corporation — Vice-Chairman ☐

Bernie Pepping — Wescom, Inc. — Secretary ☐

Others (write-in) ☐

Please return ballots to: George J. Mack — HQ23D
Nominating Committee Chairman
c/o Illinois Bell
225 W. Randolph St.
Chicago, Ill. 60606

Be sure to state number of tickets you desire. If you want to charge the tickets to a major credit card (American Express, Mastercharge, etc.) be sure to include credit card name and number.

The reasonable cost of the IEEE Recognition Dinner is made possible only through the cooperation of the Industry Sponsors.

write in his name in the space provided and check box. All ballots must be received before May 15, 1976. Results will be announced in the June issue.

ARGONNE LAB
TOUR

A very interesting tour of the Acceleration Research Facilities Division at Argonne National Laboratory is coming up — Wednesday, May 19. Departure will be via chartered bus from the water tower at the Randhurst Shopping Center in Mount Prospect at 6:30 PM. A \$5.00 fee covers transportation, chicken box lunch and refreshments. At the lab, a talk will be presented on the zero gradient proton synchrotron.

Make your reservations on or before May 12 — call the IEEE office at 236-4609.

IEEE and WSE members are invited for this joint meeting. Guests are welcome.

Please indicate your citizenship when making a reservation.

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SCANFAX, May 1976 — Volume 28, Number 8. SCANFAX is published monthly, except July and August by the Chicago Section, Institute of Electrical and Electronics Engineers for the information of the members. Business office is at 125 S. Clark St., Chicago, Illinois 60603, telephone number (312) 236-4609. Subscription rate for IEEE members collected in dues, \$1.50; for others, \$3.00 per year. Second-class postage paid at Chicago, Illinois.

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.

CHICAGO ENGINEERS TO RECOGNIZE
ACHIEVEMENTS AT BICENTENNIAL NIGHT

The engineers and scientists of Chicago will celebrate the nation's bicentennial May 26 in the Midland Hotel at an "All-Engineers Bicentennial Night." The event, arranged by the Western Society of Engineers, is co-sponsored by the local chapters of 15 engineering societies.

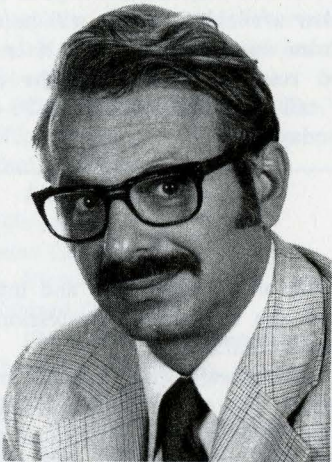
The program will feature John W. Simpson, international authority on nuclear energy and past president of the American Nuclear Society, who will talk on "The Third Century Outlook for Energy."

There will be a photo display of major technical developments in Chicago's history and a new Engineers' Joint Council slide presentation, "The Story of Engineering as Told Through U.S. Postage Stamps." Many of Chicago's engineering leaders will be honored.

Among the societies participating with the Western Society of Engineers are American Institute of Chemical Engineers, American Institute of Industrial Engineers, American Society of Safety Engineers, American Nuclear Society, American Society of Civil Engineers, American Society of Mechanical Engineers, Chicago Technical Societies Coun-

cil, American Defense Preparedness Association, Institute of Electrical and Electronics Engineers, Institute of Transportation Engineers and the Illinois Society of Professional Engineers. Tickets to the dinner are \$9.00.

"NEW DIRECTIONS
FOR THE IEEE" —
SECTION MEETING
WITH IRWIN FEERST



On Tuesday, May 18 at the Black Steer Restaurant, 6446 West North Avenue in Chicago, Irwin Feerst will hold an open discussion on "New Directions for the IEEE." He will discuss organization models adopted from other societies with the view that the IEEE could use these arrangements to improve the status of all EE's.

Dinner at 7:00 PM will be sirloin of beef or fish (\$7.00) and the meeting will be at 8:00 PM. Cash bar time is 6:30.

Please make your reservation before May 14. Contact the IEEE office at 236-4609.

THE MODEL 40 AND SYSTEM
APPLICATIONS

At the May 27 meeting of the Communications Society, Messrs. W. Baty, J. Johnson and F. Kahanic, members of Teletype Corporation, Technical Staff will talk on the system applications of the model 40 data communications terminal. The total terminal concept basic to this design philosophy will be discussed.

IEEE BOOK ON
COMMUNICATIONS
CHANNELS

The publication of *Communications Channels: Characterization and Behavior*, a Book of Selected Reprints, has been announced by the IEEE PRESS. This collection was edited by Bernard Goldberg of the U.S. Army Electronics Command. The behavior of actual communications channels — both wire and radio — including the effect of such channels on information-bearing signals, is a subject of great interest and practical importance in communications. Yet most texts limit their treatment to specialized idealized channels, failing to take into account real-world channel conditions that may not be amenable to exact analytic representation.

This book was organized to fill a void by providing a comprehensive single source of tutorial and expository information on the behavioral characteristics of practical communications channels "across the spectrum". Covered are the time-variant transfer-function properties, analytic modeling, simulation, error-rate behavior, and actual system performance. The 65 reprinted papers and the editorial commentary accompanying them are arranged into 11 subject categories. Radio, wire, and cable communications at frequencies ranging from VLF through optical are included. This broad coverage provides, through cross-fertilization, the means to exploit important concepts from one media domain to another. An extensive bibliography is included for each subject category. This 776-page book, sponsored by the IEEE Communications Society, is priced at \$11.45 for the paperbound member edition. A cloth-bound edition is available for \$22.95 (discounted to \$17.20 for IEEE members). This book can be ordered postpaid from the IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854. Payment should accompany the order.

The meeting will be at Teletype Corporation, 5555 West Touhy Avenue, Skokie at 7:30 PM. Dinner will be at 6:30 PM.

Reservations required. Parking will be available in lot 4 (west on Touhy Ave.) and the visitors lot. Contact George Wendt, 982-3731.

TALK TO THE
CHRISTIE

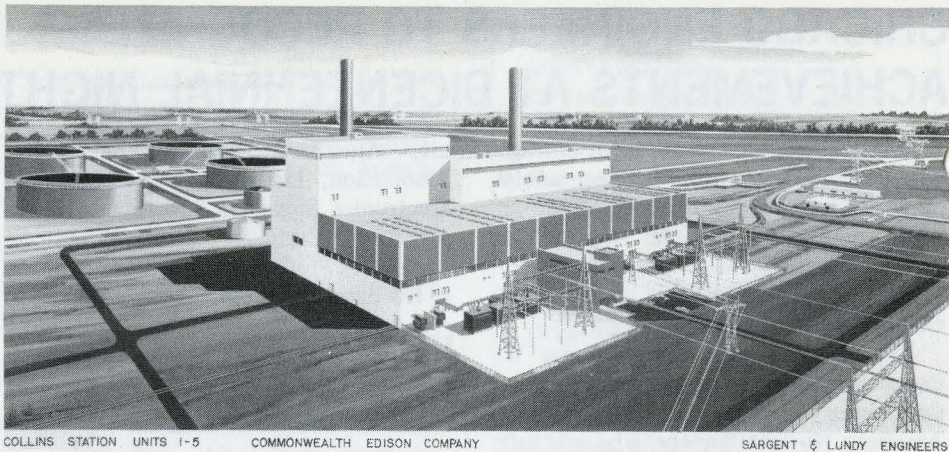
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TOUR OF EDISON COLLINS STATION

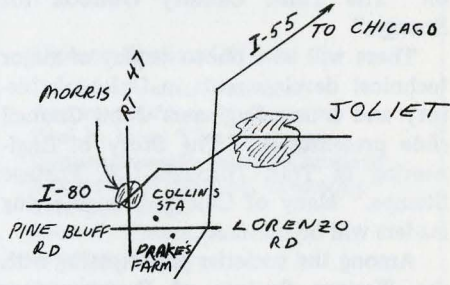
The Power Society has arranged for a tour of the Commonwealth Edison Collins Station near Morris, Illinois on Saturday, May 8, 1976. This is a five-unit fossil fuel generating station under construction. Each unit will be able to generate 500 megawatts. The station is designed for cycling service with a minimum staff and contains many design innovations. On the tour, the five generating units will be seen at different stages of construction.

The station operating staff will conduct the tour. Some of the most interesting features are: the cooling lake; oil handling and storage facilities; individual turbine units; main control room; and the 765 kv and 345 kv switchyards. Wives of members are invited for the tour.

The scheduled arrival time is



9:00-9:15 AM with the tour from 9:30 AM to 12:00 PM. Lunch is planned for 12:30 PM at Drakes Farm on Lorenzo Road near the station. The cost is \$5.50 (cash bar available). A bus will be available from downtown Chicago if enough phoned reservations indicate the need. Please call the IEEE office at 236-4609 by Monday, May 3.



SCANFAX SCANS

WORDS OF FAX

"You know, there always seems to be a shortage of doctors. The AMA does that on purpose; who do they think they are kidding? The entrance requirements are kept high and how many new medical schools do you ever hear get started each year? And the prices those guys charge, out of sight!"

I've heard this time and again from colleagues and friends so I'm sure it sounds familiar. Who wants to be the first patient of a "C" medical student or a student out of the first graduating class of a medical school with a new faculty? Who wants to be called any time of day or night as my two neighbors are and keep crazy hours? Who wants to be studying and working for 15 years after high school for one weekend a month off and some 24 hour shifts like a friend who won't really become a surgeon until about age 33? Can you imagine starting a career then? Yes, I'm sure some of you have done exactly that, but consider yourselves in a vast minority? (That at least should make you feel good!)

There are some grumblings, mumblings, comments, and other such nonsense going around the IEEE that we should begin to act like the AMA. We should limit the number of engineers being educated in this country; we should raise the standards of education; we should throw off the chains of the tyrannical

rule of the academics and intellectuals in the engineering profession and rise again! GARBAGE!!!

My colleagues, I think you are missing the point. The engineering profession is not the dedication of life, both career pursuit and privacy, that the medical profession is. We have many choices before us and most are of the 9 to 5 variety. However, we do not have a great deal of academic freedom in the course of studies we choose. In the Chicago area alone, we have a choice of several fine institutions and applied or theoretical programs. We can embark on a specialty and/or continue on to advanced and graduate levels. If we choose, we can apply to be licensed professional engineers. In essence, there are a myriad of paths and levels in the engineering expertise which we can elect. Most engineers choose the 4 year program and then off to work. Some get further technical training; others branch out into business study; some establish their own disciplined self-study programs. Very diversified, very stimulating, a career in engineering is what YOU make it, so don't cop out and let the IEEE standardize the source of creativity into a mundane mess!

If you're in industry and don't like academics running the show, get out to the meetings or get involved some other way. If the academics don't do the work, who is going to? When was the last time you sat down with a member of an

engineering faculty and addressed the training concerns of your company? Have you set up any in-house seminars and collaborated with campus colleagues? Have you offered to appear as a guest lecturer at either campus or industrial seminars? Let's try some cooperation first. The energies being used in this juvenile power struggle can better be applied in sharing our mutual knowledge and experience. Proper management of our technical resources is a responsibility and challenge we should accept and address. It is certainly worthy of our talent and time!

-JFJ

NW SUBSECTION ELECTS OFFICERS

At the annual meeting on May 19 for the Northwest Subsection, in conjunction with the Argonne Laboratory meeting and tour (see article), election of officers for the 1976-77 season will be held.

The proposed slate of candidates: Robert Goetz — Chairman; Robert Scheman — Vice Chairman; David Nelson — Secretary; Warren Foxwell — Treasurer. Additional nominations from the membership are invited and should be submitted to Chairman Bert Baumbach. Call 455-8010 or address petition to Reliable Electric Company, 11333 Addison Avenue, Franklin Park 60131.

SCANFAX SCANS

PART II

Not too long ago a colleague of mine brought an interesting paragraph to my attention. I'd like to share it with you and while you're reading, try to guess the year in which it was written!

"If we could go to Mars! Probably many more persons have dreamed of visiting Mars than ever considered the possibility of a voyage around the world before Columbus crossed the ocean. There flit through the imaginations of these individuals vague visions of airships or rocket cars capable of making journeys through interplanetary space. To every suggestion of difficulties of going from one planet to another, or even from the earth to the moon, it must be stated that there is not the slightest possibility of such journeys. There is not in sight any source of energy that would be a fair start toward that which would be necessary to get us beyond the gravitative control of the earth; there is no theory that would guide us through interplanetary space to another world even if we could control our departure from the earth; there is no means of carrying the large amount of oxygen, water, and food that would be necessary for such a long journey; and there is no known way of easing our other ship down on the surface of another world, if we could get there, at low enough speed to avoid destruction. We must resign ourselves to bridging the millions of miles between the planets with our telescopes and spectrosopes and other scientific instruments, and to crossing these bridges with our minds rather than our bodies."

The author of this was Forest Ray Moulton, A.B., Ph.D., Sc. D., of the University of Chicago. His book, *Consider the Heavens*, was published in 1935. Mr. Moulton was an expert in his field, astrophysics, astronomy, and celestial mechanics. Engineers, take heed! Did you know that Henry Ford's engineers told him for two years that an engine block for eight cylinders was too large for a single casting and that it would crack? He finally told them to do it or look elsewhere for a job!

Before you go off next time and tell someone they are nuts for their idea or use the perennial "It'll cost too much!" reply, consider that a hand calculator was non-existent five years ago. Don't let tunnel vision crush that new idea before it has even been properly evaluated or considered. The future of the engineering profession is only as strong as its new IDEAS!!!

-JFJ

CHICAGO SECTION ELECTS OFFICERS AND EXECUTIVE COMMITTEE

The Chicago Section IEEE has elected the officers and members of the Executive Committee for the 1976-77 season. Voting was by ballot printed in the April issue of Scanfax; Officers elected were:

Chairman:

Paul E. Jahn

Commonwealth Edison Company

Vice Chairman:

Robert A. Waghorne

Teletype Corp.

Treasurer:

John E. Waters

Bussmann Mfg.

Secretary:

Charles Hatstat

Sargent & Lundy

Members of the executive committee, also elected by mail ballot, include:

George W. Austin

Commonwealth Edison Co.

Mike Barnes

Paul N. Geiger

Allen-Bradley Co.

Nils Larson

John Logeman IV

Victor Research

Edward Osterberg

Illinois Bell Telephone Co.

Howard L. Wolfman

Teletype Corp.

The Executive Committee also includes the chairman of both the Fox Valley and Northwest Subsections and the chairman of each of the active group or society chapters. According to the Chicago Section bylaws, these people are

automatically members of the executive committee and do not have to be voted upon by the membership.

EDISON AWARD TO MURRAY JOSLIN

Murray Joslin who retired from the company in 1966 as vice-president in charge of division operations and nuclear activities has been selected by The Institute of Electrical and Electronics Engineers (IEEE) to receive its 1976 Edison Medal. It will be presented at IEEE's annual banquet to be held in Boston on May 12 "for his leadership in overcoming technical and financial obstacles to nuclear power generation and for managerial guidance and foresight in the planning, building and operating the early Dresden Nuclear Power Station." The Edison Award consists of a gold medal and certificate and was established in 1904 — the first award created to honor a person annually for his high standard of accomplishment.

Joslin also was honored in January by the State of Illinois Senate's 79th General Assembly upon his retirement from the Illinois Commission on Atomic Energy after 15 years of service "for his numerous and invaluable contributions to the work of the commission."

Joslin is a fellow and life member of IEEE, a fellow of the American Society of Mechanical Engineers, and a life member of the Western Society of Engineers.



WASHINGTON AWARD DINNER . . .

Members of the head table at the Washington Award Dinner, Feb. 18, 1976, Pick Congress Hotel, pose before a backdrop of the previous 52 honorees. Standing at the far left, Paul F. Carroll, regional director, central region, I.E.E.E., was one of the various engineering directors taking part in the event. The coveted engineering honor, the Washington Award, was bestowed to Ralph B. Peck (sitting, third from left) for his renowned authority in the field of soil mechanics and foundations. Peck is a retired professor and consultant of foundation engineering, University of Illinois, Champaign-Urbana. The Western Society of Engineers co-sponsored the event with five other engineering societies.



CHICAGO

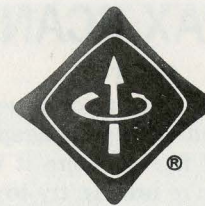
Spring Conference

ON CONSUMER ELECTRONICS

June 7-8, 1976

MARRIOTT MOTOR HOTEL

8535 W. HIGGINS ROAD, CHICAGO, ILLINOIS 60631



MONDAY—A.M.—JUNE 7, 1976

SESSION I— TUNING AND REMOTE CONTROL 9:30 A.M.

Session Chairman: Robert Williams
Magnavox Company

- A. *Avoiding Pitfalls in Varactor Circuit Designs*
Steve Hilliker,
Motorola Semiconductor Products, Inc.
- B. *New RCA VHF and UHF Varactor Tuners*
G. W. Carter, RCA
- C. *A Modular Approach to Digital Tuning*
Gregory W. Ledenbach,
National Semiconductor Corporation
- D. *Direct Address Television Tuning and Display
System Using Digital M.O.S. Large Scale
Integration*
W. W. Evans, J. B. George,
K. R. Woolling and B. W. Beyers;
RCA Consumer Electronics
- E. *A Low Cost Solution to Digital Tuning of
Television Receivers and Citizens' Band Trans-
ceivers*
Andrew C. Tickle, Nitron

Luncheon—12:30 P.M. to 1:45 P.M.

Guest Speaker: Mr. Ruud Bom
President
Philips Electronics Industries, Ltd.
Toronto, Canada

MONDAY—P.M.—JUNE 7, 1976

SESSION II— TELEVISION COLOR UNIFORMITY 2:00 P.M.

ARRANGED JOINTLY with the
*SOCIETY OF MOTION PICTURE
AND TELEVISION ENGINEERS*

Session Chairman: K. Blair Benson
Goldmark Communications
Corp.
Editorial Vice President
SMPTE

- A. *Color Rendering in Television*
LeRoy DeMarsh,
Research Laboratories, Eastman Kodak Co.
- B. *Automatic Color Correction of Broadcast Tel-
evision Signals*
B. VanBenthem,
Thomson-CSF Laboratories, Inc.
- C. *Current Usage of Vertical Interval Test Sig-
nals in Television Broadcasting*
Robert O'Conner, CBS Television Network
- D. *Improving Color Uniformity Through the Use
of the Vertical Interval Reference Signal*
C. Bailey Neal, G.T.E. Sylvania
- E. *Matrixing for Colorimetric Fidelity in Color
Monitors*
Charles Rhodes, Tektronix, Inc.

6:00 P.M.—Industry Cocktail Party

Admission By Registration Badge Only
Sponsored By: M. Gottlieb Associates, Inc.
Rauland Division of Zenith Radio
Corp.
Motorola Data Products

TUESDAY—A.M.—JUNE 8, 1976

SESSION III—NEW DEVELOPMENTS 9:30 A.M.

Session Chairman: Fred Smith
RCA Solid State Div.

- A. *The Color Picture Tube Called Able*
Kazimir Palac,
Rauland Division of Zenith Radio Corp.
- B. *A New Form of Extended Field Lens for Use
in Color Television Picture Tube Guns*
A. P. Blacker, I. M. Wilson and
J. W. Schwartz; Zenith Radio Corporation
- C. *A New Approach to Color Temperature Ad-
justment*
Anthony Bugni, Magnavox
- D. *Teletext Data Decoding—The L.S.I. Approach*
Bryan Norris and Robert Parsons;
Texas Instruments Limited
- E. *Controllable Bandwidth for Radio Receivers*
Joseph W. Lee and John F. Foster;
General Electric Company

Luncheon—12:30 P.M. to 1:45 P.M.

Guest Speaker: Mr. David Packard
Chairman of the Board
Hewlett Packard
Palo Alto, California

TUESDAY—P.M.—JUNE 8, 1976

SESSION IV—VIDEO DISC UPDATE 2:00 P.M.

Session Chairman: Art Korpel
Zenith Radio Corp.

- A. *Video Disc System Alternatives*
R. Adler, Zenith Radio Corporation
- B. *The NTSC Version of the TED System with
Particular Reference to the Signal Encoding
and Decoding Processes*
G. Dickopp, Telefunken
- C. *Some Tentative Approaches for the Realiza-
tion of an Optical Video Disc Player*
C. Puech, C. Bricot and J. C. Leheureau;
Laboratoire Central de Recherche,
Thomson-CSF
- D. *Optics of Reflective Video Disc Players*
L. Laub, Zenith Radio Corporation
- E. *Coding Parameters, Mechanics, and Electro-
mechanics of the Reflective Video Disc Player*
P. W. Boegels, N. V. Philips
Gloeilampfabrieken
- F. *Mastering and Replication of Reflective Video
Discs*
J. Winslow, MCA Laboratories,
MCA Disco-Vision, Inc.