

Reduced Rate Advance Registration

Advance registration is available at reduced rates. To avoid waiting in line to register, and to save money, register in advance by mail. Advance registration forms have been sent to all members. The form should be returned with payment to SMPTE Registration, 862 Scarsdale Ave., Scarsdale, NY 10583. Badges and tickets will be waiting for registrants at the Conference registration desk. To receive the advance registration rate, your payment must be received by 20 Oct.

Registration Rates

	Advance	At Conference
Member Weekly	\$85.00	\$100.00
Nonmember Weekly	100.00	115.00
Spouses Weekly	20.00	25.00
Student Nonmember	5.00	5.00
Member Daily	30.00	35.00
Nonmember Daily	35.00	40.00
Get-Together Luncheon	17.00	17.00
Banquet	30.00	30.00

Hotel Reservations

Reservations must be made on the conference registration form. If you wish

to receive the special reduced rates, make your room reservation early because there is a limit to the number of rooms at the special rates. Rooms at the special conference rates are available to conference registrants only. Rooms are being held at the Americana and the Americana City Squire (located across the street) only until 29 September. The rates are: Americana: Single, \$50; Twin/Double, \$62; Suites: \$125 and up. Americana City Squire, including parking: Single, \$48; Twin/Double, \$60.

Advance Program

This Program contains the most accurate and complete information available at the time of publication, listing papers within each individual session. Although the sessions as described here are firm, some papers may be omitted or rearranged before the Conference. Inquiries about specific papers or sessions should be addressed to Society Headquarters, Att.: 120th Conference—Lynne Robinson, Conference Programs Secretary, (914) 472-6606; or to Program Chairman John Zeman, Eastman Kodak Co., 6677 Santa Monica Blvd., Hollywood, CA 90038, (213) 464-6131. The Final Program listing paper titles, authors, and times of presentation will be available ten days before the Conference from Society Headquarters. The Synopses Booklet will be available at the Conference.

SUNDAY, 29 October

REGISTRATION (from 12:00 noon)

ENTERTAINMENT (evening) — Kodak Open House, 1133 Avenue of the Americas, New York City

MONDAY MORNING, 30 October

GENERAL OVERVIEW

The opening session of this conference will be quite different from similar sessions in past years. Responding to the needs of SMPTE members, the session has been designed to close the gap between the hardware and software elements of the industry.

Brought together in a panel discussion, a major film producer, a major tape producer, a leading researcher in the field, and a respected statistical analyst will provide new insights related to the conference theme, "Imagery — Today and Tomorrow." Each panelist will present a mini-paper to the conference. The panel discussion will be moderated by a well known entertainment figure from television and film who will act as the honorary assistant chairperson.

These people will bring considerable experience with them to comment on industry as it exists today. Equally important, they will be active participants in the shaping of our industry in the future.

GET-TOGETHER LUNCHEON (noon)

Guest Speaker: Harry Reasoner, CBS Television
Presentation of Awards

MONDAY AFTERNOON

EQUIPMENT EXHIBIT OPENING, 3:00 p.m.

MONDAY EVENING

PMPEA PROGRAM, Ziegfeld Theater

TUESDAY MORNING, 31 October

THE PBS SATELLITE SYSTEM

(Concurrent sessions)

The Planning and Implementation of the Public Television Satellite Interconnection System

John E. D. Ball, *Public Broadcasting Service, Washington, D.C.*

System Performance Objectives and Acceptance Testing

R. Evans Wetmore, *Public Broadcasting Service, Washington, D.C.*

The Public Broadcasting Satellite Interconnection System Earth Terminal Site Selection and Installation

Edmund A. Williams, *Public Broadcasting Service, Washington, D.C.*

Augmentation of the PBS Technical Center

Robert McCormick, *Public Broadcasting Service, Washington, D.C.*

Computer Services Support for the Satellite Transmission System

Donald F. Ford, *Public Broadcasting Service, Washington, D.C.*

Satellite Technical Operations and Maintenance

W. Gordon Douglas, *Public Broadcasting Service, Washington, D.C.*

TUESDAY AFTERNOON

SATELLITE EQUIPMENT & DELIVERY SYSTEMS

(Concurrent sessions)

Transmission of Four Simultaneous Television Programs Via a Single Satellite Channel

Liston Abbott, *RCA Laboratories, David Sarnoff Research Center, Princeton, N.J.*

- Future Developments in Satellite Communications
James W. Cuddihy, *RCA American Communications, Inc., Piscataway, N.J.*
- Video Transmission Over Western Union Satellite
S. Verma, *Western Union, Upper Saddle River, N.J.*
- Earth Station System Design Considerations
T. Williams, *Scientific Atlanta, Atlanta, Ga.*
- User's Experience with Earth Stations for CATV
R. Simon, *Teleprompter, New York, N.Y.*
- Effects of Parametric Amplifiers on Video Performance
Frank Arans, L. & R. Technical Staff, *Long Island, N.Y.*

TUESDAY

LABORATORY PRACTICES

(Concurrent day-long session)

- Color Developer Recovery and Reuse by Ion Exchange
Lewis E. Allen, *Eastman Kodak Co., Rochester, N.Y.*
- The Application of an Ion-Exchange Method for Color Developer Reuse
J. Wesley Kleppe, *Eastman Kodak Co., Rochester, N.Y.*
- Process RVNP: A New Alternative Process for Eastman Ektachrome Video News Film
William G. Doody, Gary M. Einhaus and Keith M. Stephen, *Eastman Kodak Co., Rochester, N.Y.*
- Low-Contrast Processing of VNF/VNX (7240/7250) Ektachrome Film
David K. Bulloch, *Philip A. Hunt Chemical Corp., Palisades Park, N.J.*
- An Update on the New Persulfate Bleach for Process ECP-2
Julianne E. Crisante, John Gailey, Jr., Terrence M. Henretty and Eric V. Knutsen, *Eastman Kodak Co., Rochester, N.Y.*
- A New Short Process for the Rewashing of Eastman Color Motion-Picture Films
Frederick C. Franzwa, Thomas M. Kuhn, Clayton J. Dence and Bradley K. Jensen, *Eastman Kodak Co., Rochester, N.Y.*
- Photographic Wash Water Recycling as a Solution to Energy Conservation, Water Conservation and Pollution Reduction
Robert T. Kreiman and John J. Hewitt, *Pace International Corp., Hollywood, Calif.*
- A Sprocket Designed to Limit Film Damage
Worth Baird, *LaVeZZi Machine Works, Inc., Elmhurst, Ill.*
- A Holographic Process for Color Movie Preservation
Charles S. Ih, *University of Delaware, Dept. of Electrical Engineering, Newark, Del.*
- A Projection System Utilizing a Half-Frame Format
Joseph W. Schmit, *Consultant, Chatsworth, Calif.* and Bernard L. Sackett, *Super-V Corp.*
- Image Enhancement of Film by New Method of Pre-Flashing
Vernon L. Kipping, *Consultant, San Francisco, Calif.*
- Optical Printer Control by Microprocessor
Michael Chewey, Walter Eggers and Allen Hecht, *MGM Laboratories, Inc., Culver City, Calif.*
- Two New Eastman Color Print Films With Improved Cyan Dye Dark-Keeping Stability
Eric V. Knutsen, John L. Baptista, John W. Erwin, Howard J. Johnston, Reid J. O'Connell and Cataldo A. Maggiulli, *Eastman Kodak Co., Rochester, N.Y.*

WEDNESDAY MORNING, 1 November

LABORATORY PRACTICES

(Concurrent sessions)

- The Print Corrector
Irwin W. Young, Paul A. Kaufman and Douglas R. Kaye, *Du Art Film Laboratories, Inc., New York, N.Y.*

- Care, Handling and Storage of Film Images for Television Broadcast and Motion-Picture Projection
John P. Pytlak, Alfred W. Fleischer and Robert A. Steel-nack, *Eastman Kodak Co., Rochester, N.Y.*
- Color Titles for Color Negative Films
Robin E. Miller, III, *Robin Miller, Filmmaker Co., Bethlehem, Penn.*
- The Use of UV Cured Inks in Edge Numbering of Motion-Picture Film Base
Donald A. Anderson and John D. Hakanson, *3M Company, St. Paul, Minn.*
- A Low-Cost Automatic Plotting Densitometer
Frank M. Nardozi and Victor C. Solomon, *Eastman Kodak Co., Rochester, N.Y.*
- Eastman Color Internegative II Film 5272/7272
J. W. Erwin, H. J. Bello, J. D. Clifford, D. T. Hughes, J. Crisante and H. R. McNair, *Eastman Kodak Co., Rochester, N.Y.*

DIGITAL TELEVISION

(Concurrent sessions)

- The Antiope Broadcast Teletext System
Yves Guinet, *CCETT (TV & Telecommunication Research Center), Rennes, France*
- Optical TV Link Employing a Digitally Modulated Laser
A. A. Goldberg, S. Juchnowycz and J. Rossi, *CBS Technology Center, Stamford, Conn.*
- Digital Video Recording
Joachim Diermann, *Ampex Corp., Redwood City, Calif.*
- A Monolithic Video A/D Converter
Willard K. Bucklen, *TRW LSI Products, Redondo Beach, Calif.*

WEDNESDAY AFTERNOON

FILM PRODUCTION

(Concurrent sessions)

- How to Get the Right Color of *White Light* Time After Time
David Holmes, Richard Sassone and Michael Sheppard, *Belden Communications, Inc., New York, N.Y.*
- Diffusion and Reflection Media for Light Control
Richard B. Glickman, *Consultant, Sherman Oaks, Calif.*
- A Low-Modulation Ballast for EMI and CSI Lamps
Richard B. Glickman and Leonard Pincus, *Luxdyne Corp., Beverly Hills, Calif.*
- "Panavision" Innovative Systems and Their Impact on Film Making
Robert Gottschalk, *Panavision, Inc., Tarzana, Calif.*

FILM-TO-TAPE AND TAPE-TO-FILM TRANSFERS

(Concurrent sessions)

- A Continuous-Motion Color Film Telecine Using CCD Line Sensors
Dieter Poetsch, *Robert Bosch, GmbH, Darmstadt, W. Germany*
- First-Generation 16mm Film-to-Tape Transfers With Concurrent Special Effects and Editing
David M. Stern, *L-W International, Woodland Hills, Calif.*
- 70mm Laser Flying Spot Telecine for High-Definition Television
Teiichi Taneda, Takehisa Ishida and Kenichi Hayashi, *NHK Technical Research Laboratories, Tokyo, Japan*
- Cinema Products' New KM-16: A High-Quality, Low-Cost Film-to-Tape Transfer System
Edmund M. DiGiulio, *Cinema Products Corp., Los Angeles, Calif.*
- Flying Spot Telecine With a New Framestore "Digiscan"
Neil Kempt, *Rank Organization, London, England*
- The Videodisc as a Means of Transferring a Video Picture on Motion-Picture Film
Georges J. Broussaud and Claude M. Tinet, *Thompson-CSF, Paris, France*

THURSDAY MORNING, 2 November

SOUND TECHNOLOGY

(Concurrent sessions)

High-Quality Optical Sound Recording System Using Scanned Laser Beam

Teiichi Taneda, Yukio Sugiura and Toshio Motoki, *NHK Research Labs, Tokyo, Japan* and Goichi Oishi, Hiroyuki Miyatera and Tetutarō Umezawa, *Yokohama Cinema Labs, Inc., Yokohama, Japan*

Automated Computer-Controlled Editing Sound System (ACCESS)

William R. Deitrick, *Mini-Micro Systems, Inc., Anaheim, Calif.*

The New Sound

Edwin F. Peters, Al Boudouris and John J. Burlinson, Jr., *EPRAD, Inc., Toledo, Ohio*

The Colortek — Combined Academy Monophonic and Four Discrete Tracks of Wide-Range Stereophonic Optical Sound

John Mosely, *Colortrak Inc., Reno, Nev.*

Digital Fluorescencesound — 8 Noiseless Tracks Recorded on 35mm Film with Uncompressed 90-dB Dynamic, Undistorted 0-20-kHz Frequency Range

Peter Custer and George Bird, *Fluorescencesound, Princeton, N.J.*

A Versatile Synchronizing System for Television Production and Post Production Audio/Video

George R. Swetland, *EECO, Santa Ana, Calif.*

VIDEO PRODUCTION

(Concurrent sessions)

BCN 5, Portable Video Cassette Recorder for ENG

Dieter Gause, *Robert Bosch GmbH, Darmstadt, W. Germany*

Automatic Videotaped Program Storage

Komei Kazama and Hirofumi Itoh, *NHK, Tokyo, Japan*

Design Criteria of Video Post-Production Systems with Optimum Operational Convenience

H. Fix, W. Habermann and K.-H. Trissl, *Institut fuer Rundfunktechnik GmbH, Munich, Germany*

Newsgathering . . . The Way German TV Stations Do It Today

Walter Stoye, *Hessischer Rundfunk, Frankfurt (M), Germany*

Production Switching Automation System

John Davis, *Vital Industries, Gainesville, Fla.*

A Fully Automatic Television Camera

John C. Adison, *RCA, Camden, N.J.*

The Application of the E-MEM Concept to Post Production and Editing

Bruce Rayner, *The Grass Valley Group, Inc., Grass Valley, Calif.*

Advanced Applications of ¾-In Videocassettes

Alfred Muller, *Nexus Productions, Inc., New York, N.Y.*

TeleVisa Mexicano: Film to All ENG Overnight

Gabino Carrandi Ortiz, *TeleVisa Mexicano, Mexico City, Mexico, D.F.*

Multi-Isolated Camera Videotape Production: Problems and Solutions to a Successful Application

Richard Green and C. J. Cookson, *ABC-TV, Hollywood, Calif.*

A Newly Developed "Integrated Pick-Up Component" for High Performance and Economical TV Camera

H. Sakai, T. Takawa, H. Sokei and T. Iida, *Hitachi Ltd., Mobarā, Japan*

THURSDAY AFTERNOON

SPECIAL EFFECTS, EDITING AND APPLICATIONS OF VIDEODISKS

(Concurrent sessions)

Operating Experience with the Electronic Palette

Dobrimir Borovecki, *CBS Television Network, New York, N.Y.* and Larry Evans, *Ampex Corp., Redwood City, Calif.*

The Image^N System of Video Animation Effects

David Stringer, *Image^N, Toronto, Ont., Canada*

The Use of Colored Light for Creating Special Effects

Richard Sassone, *Richard Sassone & Company, Mount Vernon, N.Y.*

Videodisk Hardware/Software Specifications Amendable to Standardization Discussions

To be announced.

An Interactive Videodisk System for Industry and Government Applications

To be announced.

A Videodisk Player for Consumer and Education Applications

To be announced.

A Survey of Potential Applications for Videodisk Systems

To be announced.

Electronic Editing Techniques and Advancement

John G. Campbell and George Bates, *Convergence Corp., Irvine, Calif.*

SOUND TECHNOLOGY

(Concurrent sessions)

Program Audio Distribution Via Existing Video Transmission Facilities

Steven B. Salamoff, *Digital Communications Corporation, Gaithersburg, Maryland*

Current and Future Improvements of Television Sound

Joseph Roizen, *Telegen, Palo Alto, Calif.*

A New Nationwide Television Sound Distribution Network

American Telephone & Telegraph, New York, N.Y.

Electronic Audio Editing by Sight

Philip Falcone, *WNET-13, New York, N.Y.*

Design and Performance Considerations for a New Photographic Sound Recording System

Frank E. Pontuis, *Westrex, Burbank, Calif.* and Terry Beard, *Nooptix, Westlake Village, Calif.*