

Advance Program

This Program is the scheduling of papers within the sessions. It is as accurate and complete as possible. Before the Conference, however, papers may be removed or rearranged into other sessions. The sessions are firm. Questions about specific papers or sessions should be addressed to Society Headquarters, Att: 11th Conference—Technical Programs Coordinator, (212) 867-5410; Program Chairman Calvin M. Hotchkiss, % Eastman Kodak Co., MP & EM Div., 1133 Avenue of the Americas, New York, NY 10036, (212) 262-7119; or Symposium Chairman Daniel R. Wells, Public Broadcasting Service, 955 L'Enfant Plaza, Washington, DC 20024, (202) 484-9500. The Final Program, listing titles of papers, will be available ten days before the Conference from Society Headquarters. The Synopses Booklet will be available at the Conference.

SUNDAY—April 30

REGISTRATION, 12:00 to 5:00 p.m.
WINE & CHEESE PARTY—Evening

MONDAY MORNING—May 1

REGISTRATION, 8:00 a.m.

MOTION-PICTURE AND TELEVISION PRODUCTION TECHNIQUES I (Tutorial Papers)

(Concurrent with Photo-Instrumentation
and High-Speed Photography I)

Technical Aspects of Producing Location Sports Films for
Television

(Excerpts of surfing, rodeo and skiing films will be shown;
discussion by the audience will be invited.)

Larry Lindberg, *Lindberg Productions Inc., New York, N.Y.*

Perspective on Personal, Mobile Filming

(Excerpts from several of the Maysles Brothers' films will be
shown; discussion by the audience will be invited.)

Albert Maysles, *Maysles Films Inc., New York, N.Y.*

A Super-8 Cable-Less Sync Filmmaking System for Students
Richard Leacock, Jon Rosenfeld and Al Mecklenburg,
Massachusetts Institute of Technology, Cambridge, Mass.

Exposure Determination With a Spotmeter

Leslie H. Holmes, *Canadian Broadcasting Corp., Ottawa,
Ont., Canada*

PHOTO-INSTRUMENTATION AND HIGH-SPEED PHOTOGRAPHY I

(Concurrent with Motion-Picture and
Television Production Techniques I)

Members of the Panel discussed below will first present a
short program on some of the latest achievements in Instru-
mentation Techniques. This will be followed by a brief
coffee break.

Roundtable Panel. Panel members will answer questions
and give explanations pertaining to photo-instrumentation
analysis.

Panelists: Donal L. Clayton, *Photographic Analysis Ltd.,
Don Mills, Ont., Canada*; Charles A. Jantzen, *Photographic
Analysis Co., Wayne, N.J.*; John L. Joseph, *Picatinny Arse-
nal, Dover, N.J.*; Leonard Lessin, *Riverside Research Insti-
tute, New York, N.Y.*; A. Earl Quinn, *Eastman Kodak Co.,
Rochester, N.Y.*; Moderator: Dennis L. Crow, *Esso Re-
search and Engineering, Linden, N.J.*

GET-TOGETHER LUNCHEON—Noon

Guest Speaker: To be announced

ANNUAL SMPTE MEETING

MONDAY AFTERNOON

MOTION-PICTURE AND TELEVISION PRODUCTION TECHNIQUES II (Tutorial Papers)

(Concurrent with Photo-Instrumentation
and High-Speed Photography II)

Production Techniques of a Theatrical Short Subject Film
(The film *Bicycle* will be shown; discussion by the audience
will be invited.)

James R. Martin, *Demian Cine Productions, Philadelphia,
Pa.*

Production Techniques in Making a Scientific Documentary
(Excerpts from a film on vampire bats in the caves of South
Mexico and from a film entitled *How to Take Care of the
Newborn* will be shown; discussion by the audience will be
invited.)

Roy Zeper, *Wyeth Laboratories, Radnor, Pa.*

Computer Animation

Alfred I. Thumin, *NYU-Oxberry Project, New York Uni-
versity, Bronx, N.Y.*

PHOTO-INSTRUMENTATION AND HIGH-SPEED PHOTOGRAPHY II

(Concurrent with Motion-Picture and
Television Production Techniques II)

Educational Workshop in Photo-Instrumentation
Techniques

(Various types of instrumentation equipment will be demon-
strated. These will include sub-microsecond strobe lights,
high-speed motion-picture photography, time-lapse photog-
raphy, cinemicroscopy, high-speed oscillography. Those
who attend will be able to have an actual working experience
with these instruments. Demonstration of "Video-Record-
ing" in the field of high-speed subjects and microscopy analy-
sis. Engineering students will be welcome to attend.)

TUESDAY MORNING—May 2

LABORATORY PRACTICES I

(Concurrent with Cartridge and
Cassette Systems—Videoplayers)

Spectral Densities and How to Measure Them With the
Color Densitometer VUZORT KBD II

RNDr. Miroslav Jahoda, Dr.Sc., *Director, Research Insti-
tute of Sound and Picture, Prague, Czechoslovakia*

The Optimum Color Balance for Motion Picture Prints—
Effect of Viewing Conditions

Richard W. Bauer, Alfred W. Fleischer and Woodlief
Thomas, Jr., *Eastman Kodak Co., Rochester, N.Y.*

A Manual Additive Lamphouse for Optical Printer

William W. Valliant, *Producers Service Corp., Glendale,
Calif.*

Review and Current Considerations for Automated Blow-Up Printing

Edward H. Reichard, *Consolidated Film Industries, Hollywood, Calif.*

Panel Discussion: Uniform Aspect Ratios of Film Gates for Reduction Printing

Moderator: Dr. Hans Chr. Wohrab

CARTRIDGE AND CASSETTE SYSTEMS—VIDEOPLAYERS
(Concurrent with Laboratory Practices I)

Servos for Rapid Cassette Handling and Tape Threading in the ACR-25

Reginald W. Oldershaw, *Ampex Corporation, Redwood City, Calif.*

The System and the Electronics Related to Videoplayers, Including 3-Channel Photomultipliers

Luis R. Wanner, *Sylvania Electric Products, Inc., Seneca Falls, N.Y.*

Holotape—A Live Color Holographic Videoplayer Demonstration

William J. Hannan, *RCA/David Sarnoff Research Center, Princeton, N.J.*

The Videocassette: Programing in Education

Stanley C. Gabor, *Associate Dean, New York University, New York, N.Y.*

New Applications and Uses for Super-8 Cartridge Sound

Lee H. Schank and Hans F. Napfel, *Fairchild Industrial Products, Commack, N.Y.*

TUESDAY AFTERNOON

LABORATORY PRACTICES II

(Concurrent with TV Systems and Equipment I)

Spring-Loaded Wiper Blade Squeegees

John C. Boutet, *Eastman Kodak Co., Rochester, N.Y.*

Vacuum Squeegee Engineering Development

William A. Tracy, *William A. Tracy Co., Burbank, Calif.*

A Comparison of Silver-Recovery Methods

Austin C. Cooley, *Eastman Kodak Co., Rochester, N.Y.*

Biological Growths in Motion-Picture Processes

Margaret Beach, *Eastman Kodak Co., Rochester, N.Y.*

Waste Treatment of Photographic Processing Solutions and Chemicals with Ozone

Thomas W. Bober and Thomas J. Dagon, *Eastman Kodak Co., Rochester, N.Y.*

TV SYSTEMS AND EQUIPMENT I

(Concurrent with Laboratory Practices II)

Factors Influencing the Design of Color-Separation Optics for Television Cameras

J. Anthony Fawcett, *Rank Precision Industries Ltd., Leicester, England*

Beam-Landing Improvement of 110°-Deflection Color Picture Tube Using a Discontinuous-Surface Lens

E. Yamazaki, K. Maruyama and T. Ueda, *Hitachi, Ltd., and I. Ogura, Tokyo University Japan*

A Semiconductor Image-Sensing Device for Television

Michael L. Paull, *Advertel Productions Ltd., Toronto, Canada*

A Versatile, Compact Video Production Switcher for Use in Mobile, Educational and CCTV Systems

Harold L. Pitter and Richard S. Wise, *Ball Brothers Research Corp., Boulder, Colo.*

A Rear-Projection System for Television Composites Using Low-Powered Projection Apparatus

Norman E. Cobb, *KNXT Channel 2, Hollywood, Calif.*, and Richard B. Glickman, *Consulting Engineer, Sherman Oaks, Calif.*

WEDNESDAY MORNING—May 3

TV SYSTEMS AND EQUIPMENT II

(Concurrent with Education in Motion-Picture Technology)

The Influence of Automatic Black-Level Circuitry on Televised Film Images

Henry A. Barrett, Richard E. Bartow, Robert C. Lovick and John C. Norris, *Eastman Kodak Co., Rochester, N.Y.*

The Effect of Automatic Black-Level Control on the Quality of Television Display of Film Images

Daan Zwick, *Eastman Kodak Co., Rochester, N.Y.*

Performance of Automatic Black-Level Control in Telecine Systems

Lou Bazin, *RCA, Camden, N.J.*

Color Negative in the Telecine

C. B. B. Wood, A. B. Palmer and F. A. Griffiths, *British Broadcasting Corp., Research Dept., Tadworth, Surrey, England*

A Variable Font TV Titling System Based on Video-to-Digital-to-Video Conversion

James D. Rosen and John F. Tweedy, Jr., *Systems Resources Corporation, Plainview, N.Y.*

On-Line System for TV Weather Report

Kiyoshi Takahashi, *NHK—Japan Broadcasting Corp., Tokyo, Japan*

EDUCATION IN MOTION-PICTURE TECHNOLOGY

(Concurrent with TV Systems and Equipment II)

The SMPTE and Education

Herbert E. Farmer, *SMPTE Vice-President for Educational Affairs, University of Southern California, Division of Cinema, Los Angeles, Calif.*

A Published Survey of Photographic Instruction

Richard R. Ball and James E. Reedy, *Eastman Kodak Co., Rochester, N.Y.*

The Videofilm Story

Carl E. Sipe, *Eastman Kodak Co., Rochester, N.Y.*

Concept and Design of a Total Existing-Light System (Basis for Existing-Light Photography)

P. P. Chiesa, *Eastman Kodak Co., Rochester, N.Y.*

Existing-Light System—Reduction to Practice (Super-8 Films, Camera and Process)

Howard Daly, *Eastman Kodak Co., Rochester, N.Y.*

Development of a Filmmaking Curriculum Based on Super-8

Arvin C. Conrad, *Art Dept./Film, Rice University, Houston, Tex.*

The PIP System: An Innovation in Audio-Visual

Programing

Edward D. Baars, *North American Philips Corp., New York, N.Y.*

WEDNESDAY AFTERNOON

TV SYSTEMS AND EQUIPMENT III

(Concurrent with Theater Projection and Screening-Room Practices)

Time-Compression Multiplex for Color Video Telephone Analog Transmission

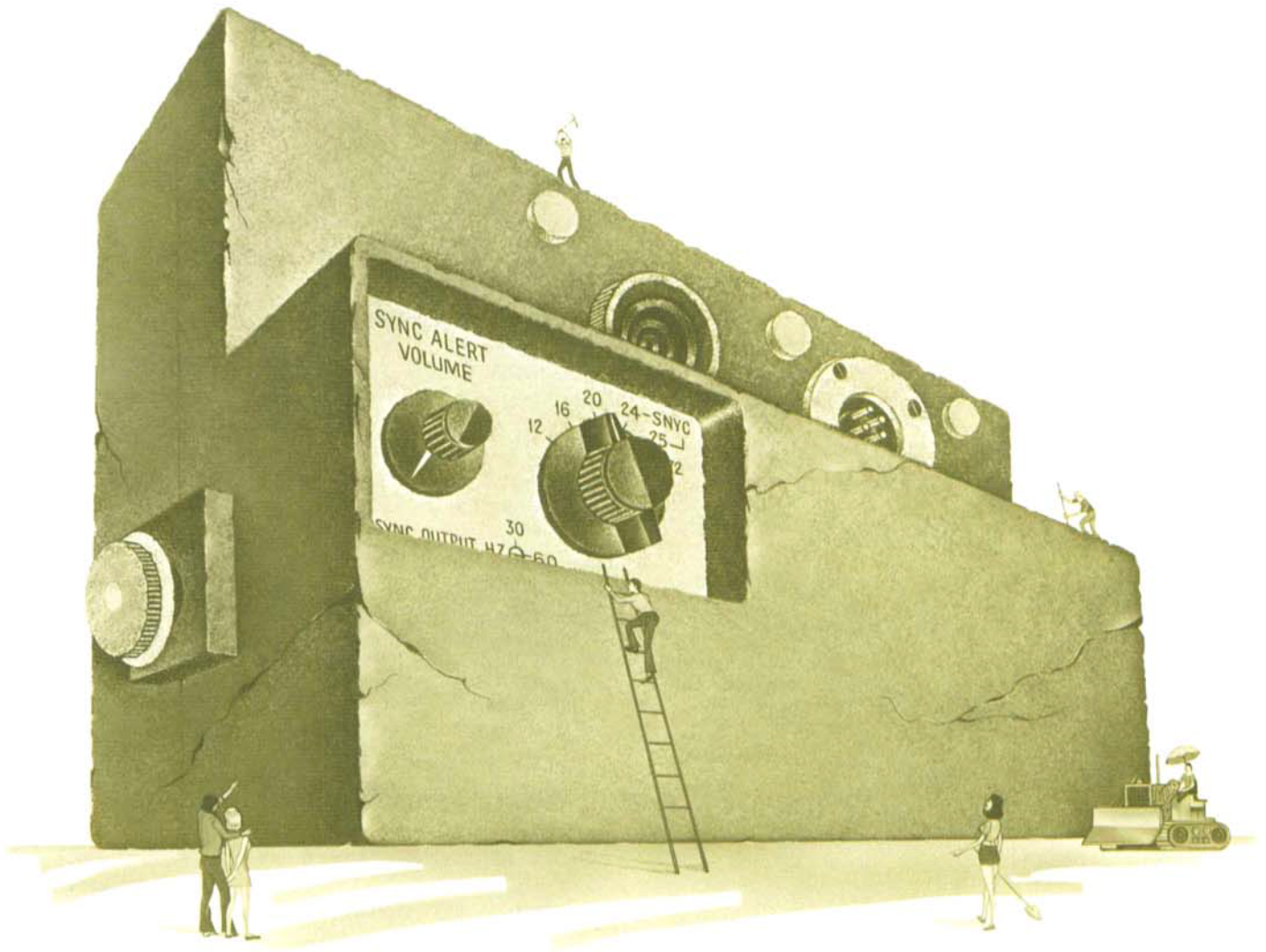
Michael Borsuk and Paul N. Browne, *Bell Telephone Laboratories, Holmdel, N.J.*

Experiments in Long-Distance Amateur Color-Television Transmission in the HF Bands

William DeWitt, *Eastman Kodak Co., Rochester, N.Y.*

Evaluation of TV Image-Area Test in the Rochester Area

Roland J. Zavada (R. C. Lovick, *Collaborator*), *Eastman Kodak Co., Rochester, N.Y.*



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*Technology in the
service of creativity.*

CINEMA PRODUCTS

2044 Cotner Avenue, Los Angeles
Calif. 90025 TELEX: 69-1339
TELEPHONE: (213) 478-0711

Dropout Considerations in Videotape Recording and Proposed Recommended Practices

Norman C. Ritter, *Chairman SMPTE Video Tape and Reels Subcommittee*

Modulator Calibrator for Helical-Scan Video Recorders

Harry Kaemmerer and Michael H. Cook, *AT&T Co., New York Telephone Co., New York, N.Y.*

Trends Toward High-Speed Thermal Duplication of Videotape

William B. Hendershot, III, *Consolidated Video Systems, Santa Clara, Calif.*

THEATER PROJECTION AND SCREENING-ROOM PRACTICES

(Concurrent with TV Systems and Equipment III)

A Compact Xenon-Arc Source with an Elliptical Cold Mirror Integral Reflector

C. R. Bowers, *General Electric Co., Cleveland, Ohio*

A New Luminance Photometer for Measuring Screen Brightness

Richard A. Walker, *Photo Research, Division of Kollmorgen Corp., Burbank, Calif.*

A Method of Locking a Multichannel Non-Sprocketed Tape Recorder to a Film-Distributor System

Robert Z. Langevin, *Ampex Corp., Redwood City, Calif.*

An Automated 16mm Theater Projection and Sound System

Abe Schneiderman, George Kende, Fred Bangerter and Mahmut Goench, *Viewlex, Inc., New York, N.Y.*

System Performance at Century City: Cinema II

G. M. Berggren and R. W. Townsend, *Wil-Kin Inc., Atlanta, Ga.*

No-Rewind Automation with Format Change for 35mm Theater

G. M. Berggren and R. W. Townsend, *Wil-Kin Inc., Atlanta, Ga.*

Automation of the National Triple Theater

G. M. Berggren, *Wil-Kin Inc., Atlanta, Ga.*

COCKTAIL PARTY, BANQUET AND DANCE—Evening

THURSDAY MORNING—May 4

POST-PRODUCTION AND EDITING TECHNIQUES

(Concurrent with Symposium Session I)

Editing as a Production Tool of a Historical Documentary about a Classical Feature

(Excerpts from the documentary *Billy the Kid* will be shown; discussion by the audience will be invited.)

John Burke, *Freelance Cameraman, Philadelphia, Pa.*

Present-Day Editing Practices and Theory

Dr. John Tyo, *Syracuse University, Syracuse, N.Y.*

Current Trends in Editing—A Panel Discussion

Panelists: Carl Lerner, *New York University*; Haig Manogian, *New York University*; Ernie Rose, *Temple University*; Don Staples, *New York University*; Moderator: Dr. John Tyo, *Syracuse University*

SYMPOSIUM ON PUBLIC BROADCASTING

THURSDAY MORNING

SYMPOSIUM SESSION I

(Concurrent with Post-Production and Editing Techniques)

Engineering Objectives in Public Broadcasting

Hartford N. Gunn, Jr., *President, PBS, Washington, D.C.*

Present Structure of Public Broadcasting Service Interconnection

John E. D. Ball, *PBS, Washington, D.C.*

Present Structure of National Public Radio Interconnection

George Geesy, *NPR, Washington, D.C.*

PBS Network Origination Center

John T. Lentz, *PBS, Washington, D.C.*

NPR Network Origination Center

Richard Cassidy, *NPR, Washington, D.C.*

THURSDAY AFTERNOON

SYMPOSIUM SESSION II

NPR NetCUE

Wayne Hetrich, *NPR, Washington, D.C.*

DACS—A Computer-Controlled Message Distribution System

Gene Swamzy, *PBS, Washington, D.C.*

Role of Cable in Public Broadcasting

Gerald Plemmons, *KQED-TV, San Francisco, Calif.*

Time-Shared Interactive Computer-Controlled Information Television (TICCIT)

William F. Mason, *The Mitre Corp., Annandale, Va.*

ATS-F Satellite Educational TV Experiment

Dale Ogden, *Federation of Rocky Mountain States, Denver, Colo.*

FRIDAY MORNING—May 5

SYMPOSIUM SESSION III

ATS-1 and ATS-G Satellite Radio Distribution Experiments

Richard Cassidy, *NPR, Washington, D.C.*

Lister-Hill Biomedical Network

Albert Feiner, *Library of Medicine, Bethesda, Md.*

Experiments in Stereo Sound in Television

Thomas B. Keller, *WGBH-TV, Boston, Mass.*

National Center for Audio Experimentation

Donald Voegeli, *University of Wisconsin, Madison, Wisc.*

Use of SCA for Public Service Application

Al Fredette, *WAMC, Albany, N.Y.*, and William Kling, *KSJN, Grand Forks, N.Dak.*

FRIDAY AFTERNOON

SYMPOSIUM SESSION IV

Television for the Deaf

John Ball, *PBS, Washington, D.C.*

Typical Public-Broadcasting State Network Configuration and Operation

Lee Morris, *Mississippi Authority for ETV, Jackson, Miss.*

Typical Public-Broadcasting Regional Network Configuration and Operation

King Harrison, *WETA-TV, Washington, D.C.*

Production Centers in Public Broadcasting

Mal Albaum, *NET, New York, N.Y.*

Exhibit Directory begins on page 214.