

Advance Registration

Please register early for the SMPTE Conference to save time when arriving. Use the advance registration form that was sent to all members. Mail the complete form with payment to SMPTE, 862 Scarsdale Ave., Scarsdale, NY 10583. Badges and tickets will be waiting for registrants at the Conference Registration Desk.

Registration Rates

Member Weekly	\$50.00
Nonmember Weekly	70.00
Ladies Weekly	10.00
Student Member	Free
Student Nonmember	5.00
Member Daily	25.00
Nonmember Daily	30.00
Get-Together Luncheon	9.00
Banquet	25.00

Hotel Reservations

The hotel reservation card that was mailed to all members must be used to reserve accommodations at the Four Seasons Sheraton Hotel. If you wish to receive the special reduced rates, make your room reservations early because there is a limit to the number of rooms at the special rates. Rooms at the Four Seasons are being held for SMPTE registrants only until October 30.

Hotel Rates

Single	\$27.00
Twin or Double	34.00

Abstracts, Synopses, and Cassettes

Synopses booklets, containing two-page résumés of each paper on the program, have been eliminated from the 116th Conference. Instead, a brief abstract of each paper will be published in the Program booklet. The synopses have not been abandoned, however. They will be published in a special "Conference Wrap-Up" section which will form a major part of the December *Journal*.

As was the case at the 115th Conference in Los Angeles, each paper will be recorded and made into an audio cassette to be sold at the Conference. It is hoped that the cassettes will be available on the same day the paper is presented. Prices of the cassettes are expected to be \$5.00 each.

Committee Meetings

SMPTE Engineering Committees will meet during the 116th Conference. Committee members will be notified by letter of the dates and times of their meetings. Editorial activities during the Conference include a joint meeting of the Publications Advisory Committee and the Board of Editors.

Association of Cinema Laboratories.

The ACL will meet at the Four Seasons Sheraton Hotel on Friday and Saturday, November 8 & 9. On Friday there will be a Board of Directors meeting at 4:00 p.m., including dinner, which will begin at 6:30 p.m. On Saturday there will be a members' meeting at 8:30. The remainder of the day will be devoted to the Laboratory Techniques and Equipment Forum with a break at noon for lunch. SMPTE members are invited to attend the Equipment and Techniques Forum.

Advance Program

This Program contains the most accurate and complete information possible at press time. Unfortunately, because of the early deadline for this issue in relation to the late date of the Conference, many sessions are incomplete. The sessions listed here are firm. Some papers may eventually be omitted and others placed in a different order within a session. Many additional papers are expected, particularly in those sessions lacking papers in the program that follows. Any inquiries about specific papers, sessions, or papers that have not yet been listed in the program, should be addressed to SMPTE Headquarters, Att: Lynn Robinson, Conference Programs Secretary, (914) 472-6606, or to Program Chairman Maurice French, Canadian Broadcasting Corp., 354 Jarvis St., Toronto, Ont., Canada (416) 925-3311. *Note: Additional information on the Conference Program will be published in the Conference Update section of the October Journal. The Final Program containing paper titles, abstracts, authors, and times of presentations, will be available from SMPTE Headquarters on October 30. This program supersedes the one mailed to members with the hotel cards and registration forms.*

SUNDAY, NOVEMBER 10

REGISTRATION (from 12:00 noon)

NOVEMBERFEST (evening)

Courtesy of Kodak Canada Ltd.

MONDAY MORNING, November 11

TELEVISION SYSTEMS

(Concurrent with Laboratory Practices)

The Design and Construction of CN Tower

Malachy Grant, *CN Tower Limited, Toronto*

Multiple Antenna System—CN Tower

J. K. MacDonald, *Canadian Broadcasting Corp., Toronto*

Digital TV Image Enhancement

John P. Rossi, *CBS Laboratories, Stamford, Conn.*

A Comprehensive Special Effects Generator

A. W. Chritchley, I. A. Fairbairn, and E. W. Taylor, *EMI Ltd., London*

LABORATORY PRACTICES

(Concurrent with Television Systems)

Microdemand® Drive: A Key to Cost Effective Film Processing

Jack P. Hall, *Filmline Corp., Milford, Conn.*

L.A.D.—A Motion-Picture Laboratory Control System Based Upon Laboratory Aim Densities

Alfred W. Fleischer and John P. Pytlak, *Eastman Kodak Co., Rochester, N.Y.*

Application of Ozone for Chemical Recovery and Pollution Control in the Photographic Film Processing Industry

George A. Lorenzo and Thomas N. Hendrickson, *Computerized Pollution Abatement Corp., Leicester, N.Y.*

Chemical Solutions in View of Chemical Shortages

Frank P. Brackett, *Consultant, N. Hollywood, Calif.*

Image Quality with Reference to the Elimination of Particulate Contamination

Ronald Norman Haig, *Lipsner-Smith Co., Ltd., Uxbridge, England*

GET-TOGETHER LUNCHEON (noon)

Presentation of SMPTE Awards

MONDAY AFTERNOON

TELEVISION SYSTEMS

(Concurrent with Laboratory Practices)

- An Automated Network Control Centre
J. Bowie Dickson and M. W. S. Barlow, *Canadian Broadcasting Corp., Montreal*
- The Design of an Automatic Machine Assignment System
M. W. S. Barlow, *Canadian Broadcasting Corp., Montreal*
- An Automatic Control System for the ORTF Microwave Network
Marie F. Levieux, *Office de Radiodiffusion Television Française, Meuon, France*
- Derivation of a Correction Matrix for Nonstandard Color TV Display Phosphors
L. DeMarsh, *Eastman Kodak Co., Rochester, N.Y.* and
C. B. Neal, *GTE Sylvania, Batavia, N.Y.*

LABORATORY PRACTICES

(Concurrent with Television Systems)

- Laboratory Control of Motion Picture Duplicating
R. W. Bauer, *Eastman Kodak Co., Rochester, N.Y.*
- Color Image Analysis
Hazeltine Corp., Greenlawn, N.Y.
- Our Shrinking Film Heritage
Arnold C. Schieman, *National Film Board of Canada, Montreal*
- High-Speed Automated Breakdown of 8mm Materials
W. D. Carter, *Carter Equipment Corp., Inglewood, Calif.*,
and Sherwin Becker, *Allied Film Laboratory, Detroit, Mich.*

OPENING OF EQUIPMENT EXHIBIT (5:00 p.m.)

TUESDAY MORNING, November 12

SOUND

(Concurrent with TV and Film in Education)

- Computer Simulation of Photographic Sound
Joseph J. Charles and Charles F. Mitasik, *Eastman Kodak Co., Rochester, N.Y.*
- Contemporary Technology of Registration and Reproduction of Sound on Film in the Soviet Union and its Further Development
Oleg I. Ioshin and Boris G. Belkin, *Cinema & Photo Research Institute (NIKFI), Moscow, USSR*
- The Design, Installation and Operation of a High-Speed Film Rerecording Complex
Bill O'Neill, *Mirrophonic Sound Ltd., Toronto*
- Technical Innovation and Development in Magnetic Sound Dubbing Systems
A. H. Lavender, P. Surman, D. Hamill and G. Powell-Evans, *P.A.G. Films Ltd., London*
- A Wide-Range, Noise-Immune, Three-Channel, Variable-Density, Push-Pull Color Photographic Sound Track for Motion Pictures
Petro Vlahos, *Association of Motion Picture and Television Producers, Inc., Hollywood, Calif.*
- Audio Properties of Magnetic Pre-Stripe on Motion Picture Film
David Carr, *Eastman Kodak Co., Rochester, N.Y.*

TV and FILM IN EDUCATION

(Concurrent with Sound)

- An Educational Technology Program for Canada
John de Mercado, *Canadian Federal Government, New Educational Technology Program, Ottawa*
- Measuring the Performance of AV Equipment
Ralph W. Curtis, *National Film Board of Canada, Montreal*
- Ottawa IR TV System
Les McLaren, *Ottawa*

TUESDAY AFTERNOON

LIGHTING

(Concurrent with Small Format)

- Television Lighting Control: Manual or Memory?
C. William Shearer and Tom C. Nutt, *Canadian Broadcasting Corp., Montreal*
- Television Outside Broadcast Lighting
B. P. Wilkes, *British Broadcasting Co., London*
- The Use of Metal Halide Lamps on Exteriors
C. Ryle Gibbs, *O.R.T.F. Service des Etudes, Paris*
- The Development and Application of Metal Halide Lamps for Colour Filming and Television
Robin C. Aldworth, *Thorn Lighting Ltd., London*
- TV News Applications of HMI Lamps
Gideon Fiat, *ABC News, New York, N.Y.*, Michael McGovern, *Macbeth Sales Corp., Newburgh, N.Y.* and Thomas Lemons, *TLA-Lighting Consultants, Inc., Salem, Mass.*
- Investigation of the Causes and Recommended Solutions to the Dark Frame Phenomenon in 60 Cycle HMI ARC Lights
A. Guy Obolensky, *Technethion Corp., Sloatsburg, N.Y.* and Gideon Fiat, *ABC News, New York, N.Y.*

SMALL FORMAT

(Concurrent with Lighting)

- Report of the CBC Toronto Study Group
Karl Kruger, *CBC, Toronto*

TUESDAY EVENING

VISIT TO ONTARIO PLACE CINESPHERE

WEDNESDAY MORNING, November 13

TELEVISION FILM

(Concurrent with Photoinstrumentation)

- Suggestions for a New Standardized Three-Dimensional Test Chart For Color Films
Fritz Spiess, *TDF Film Productions Ltd., Toronto*
- An Automatic Editing System Using a Minicomputer and Color Negative Film in Telecine
Toshinori Miura and Hiroshi Tanimura, *Japan Broadcasting Corp., Tokyo*
- Why Film?
Jack H. Mewett, *BBC TV Film Studios, London*
- Computer Animation: NRC/NFB Collaboration
N. Burtnyk, R. Jodoin and M. Wein, *National Research Council of Canada, Ottawa*
- Telecine Colorimetry I—A Colorimetric Comparison of Film and Television
L. DeMarsh, *Eastman Kodak Co., Rochester, N.Y.*
- Production of CBC's *National Dream*
Jim Murray, *Canadian Broadcasting Corp., Toronto*

PHOTOINSTRUMENTATION

(Concurrent with Television Film)

- Kinematics of a Sugar-Beet Topping Mechanism
Jaroslav Kalina, *Research Institute of Agricultural Machinery, Prague, Czechoslovakia*
- Kinesiology—Films for Analysis of Human Movement
Mavis E. Berridge, *University of Toronto, Toronto*
- A Simple, Low Cost, Zero-G, Cloud Physics Camera and Optics System
Burton J. Askowith, *Sperry Support Services, Huntsville, Ala.*

Acceleration Analysis of Crop Cutting by High-Speed Photography

Graeme R. Quick, *White Farm Equipment, Brantford, Canada*

Hail Photography: An Example of the Use of High Speed Techniques Under Adverse Conditions

Edward Lozowski, Myron Oleskiw and Michael Morrow, *University of Alberta, Edmonton*

Photographic Measurement of Smoke Plume Heights from Industrial Stacks

F. H. Fanaki and G. Lesins, *Atmospheric Environment Service, Downsview, Canada*

WEDNESDAY AFTERNOON

TELEVISION FILM

(Concurrent with Photoinstrumentation)

Modern Working Technique for Editing Tables

Günter Bevier, *W. Steenbeck & Co., Hamburg, Germany*

Technical Considerations in Filming a Major Sporting Event

David W. Samuelson, *Samuelson Film Service Ltd., London*

The Samcine Mk II Calculator

David W. Samuelson, *Samuelson Film Service Ltd., London*

Gevachrome II: A New Color Reversal System for Film Productions and News Gathering

R. J. H. Huybrechts and R. G. L. Verbrugge, *Agfa-Gevaert, N.V., Mortsel, Antwerp, Belgium*

PHOTOINSTRUMENTATION

(Concurrent with Television Film)

Picosecond Framing Photography of Ultrafast Luminous Phenomena

M. C. Richardson and K. Sala, *National Research Council of Canada, Ottawa*

Utilization of High Speed Photography for Blast Peak Pressure Measurements

Georges Audet, *Defence Research Establishment Valcartier, Courcellette, Canada*

Interferometric Studies of Plasma in Two Wave Lengths

V. A. Gribkov, N. V. Kalachev, O. N. Krokhin, V. Ya. Nikulin, and G. V. Sklizkov, *Lebedev Physical Institute, Academy of Sciences, Moscow, USSR*

Real Time Cinetheodolites

Jim Wymer, *Yuma Proving Grounds, Arizona*

WEDNESDAY EVENING

COCKTAIL PARTY, BANQUET, AND DANCE

THURSDAY MORNING, November 14

SATELLITES IN BROADCASTING

(Concurrent with Focus on Television Broadcasting Monitoring)

A live demonstration is planned of a transmission from a NASA Satellite.

An Experimental Broadcasting Satellite System Using 12 GHz Band

Misao Matsushita and Takehiro Izumi, *Japan Broadcasting Corp., Tokyo*

Small Earth Stations for Broadcasting Satellite Systems

M. L. Card and J. D. Palmer, *Dept. of Communications, Ottawa*, and K. Logan and N. M. Lopianowski, *Kenneth Logan and Associates, Montreal*

Investigations of the Applications of Advanced Communications Satellites

B. C. Blevis and N. G. Davies, *Department of Communications, Ottawa*

A Network Control System for Television Distribution by Satellite

John Kinik, *Telesat Canada, Ottawa*, and F. J. Fox, *Canadian Broadcasting Corp., Montreal*

Transmission of Two High Quality (or Several Medium or Low Quality) Sound Signals Within the Line Blanking Interval of a Video Signal Especially in FM-TV-Satellite Systems

Manfred Maegele, *Fernmeldetechn. Zentralamt der DBP, Darmstadt, Germany*

FOCUS ON TELEVISION BROADCAST MONITORING—A Symposium

(Concurrent with Satellites in Broadcasting)

Note: Because final confirmations of all participants was unavailable at press time, only the categories of the presentations are contained below. Additional details, including the names and affiliations of participants, will be published in the Conference Update section of the October Journal.

Opening Remarks and Report of the SMPTE Working Group on Coding Concepts.

Ad Agencies' Evaluation of Proof-of-Performance Requirements—If Needed.

Code Requirements of Commercials and Broadcast EDP Applications.

Broadcaster Applications or Limitations of Coded Commercials for "Off-Air" Monitoring.

Performers' Guilds Role in Proof-of-Play.

THURSDAY AFTERNOON

THEATRE DESIGN AND PROJECTION

(Concurrent with Focus on Television Broadcasting Monitoring)

Electronic Motion Pictures: How and Why

J. Sinclair, *Sher and Sinclair, Toronto*

FOCUS ON TELEVISION BROADCAST MONITORING—A Symposium

(Concurrent with Theatre Design and Projection)

The Evolvement of Monitoring Methods—Who and How

The Advertisers' Need-or-Not for Better Methods of Broadcast Data Handling Directed Toward the Need for Proof-of-Performance Monitoring

Comments by FCC (requested)

FRIDAY MORNING, November 15

CABLE TELEVISION

Program information for this session was unavailable at press time. Please see the Conference Update section of the October Journal for details.

FRIDAY AFTERNOON

ENGINEERING MANAGEMENT

A Discussion of Research and Development Management

Herbert Rees, *Eastman Kodak Co., Rochester, N.Y.*

TCR 100 Cartridge Video Recorder: History of a Product Development

Arch Luther, *RCA, Camden, N.J.*

Effective Planning and Control of Resources in the Communications Industry

Paul J. Stonich, *Management Analysis Center, Inc., Northbrook, Ill.*