

16th Annual SMPTE Television Conference

February 5-6, 1982

Opryland Hotel, Nashville, Tennessee

The Technical Program

"Tomorrow's Television" is the theme of SMPTE's 16th Annual Television Conference. Two full days of technical sessions will provide registrants with the latest information on the future of broadcast television technology. Topics for the sessions are: New Television Technologies; Multi-Channel Television Audio; Digital Control of Television Equipment; High Definition Television Systems. Don't miss this unique technical meeting. Registration forms have been sent to all members. Additional copies of the forms are available from SMPTE Headquarters, 862 Scarsdale Ave., Scarsdale, NY 10583. Register now!

Equipment Exhibit

The Conference will feature a full-scale equipment exhibit in conjunction with the technical sessions. This exhibit will be limited to equipment that directly relates to the conference technical program in order to allow participants to focus on the subjects at hand without the distraction of other types of equipment. It will provide a unique opportunity to see and handle the kinds of equipment discussed at the technical sessions. Most major manufacturers and suppliers will participate. The exhibit will be open from 8:00 A.M. to 6:00 P.M. on Friday and Saturday.

Social Events

The Nashville Section of the SMPTE is planning a reception to be held Thursday evening at the Opryland Hotel. It is open to all paid Conference registrants. A Get-Together Luncheon will be held at the Opryland Hotel at noon on Friday. The guest speaker will be Robert Wussler of Turner Broadcast Systems, Atlanta, Georgia. Tickets are \$30.

Spouses' Program

This program, under the direction of Anne Hahn, Middle Tennessee State University, and Norma Gerson, a TV makeup artist, will be held on Friday and Saturday. The cost of \$25 includes continental breakfast on Friday and Saturday mornings and many interesting events.

Grand Ole Opry Ticket Information

Ever since its first program was held in 1925, the Grand Ole Opry has been the foremost country music show in the United States.

Tickets for the Grand Ole Opry, Saturday evening, February 6 shows (6:30 P.M. and 9:30 P.M.) have been set aside for SMPTE registrants. The tickets can be obtained for \$8 a person by using the appropriate order form. Round trip bus transportation is \$.50 per person and is payable to the bus company at the Opryland Hotel on the evening of the performance.

Hotel Reservations

Rooms are available at the Opryland Hotel (Conference headquarters) and at the Airport Hilton. Hotel reservations must be made on the hotel reservation card. This card, together with the required deposit, must be received by the hotel of your choice by January 13 in order to qualify for the special Conference rate. *Do not mail hotel reservations to SMPTE.* Once the Society's block of rooms at the Opryland is filled, reservations will automatically be forwarded to the Airport Hilton.

The Society will provide morning and evening shuttle bus service between the Hilton and Opryland for registrants housed in the Airport Hilton.

Hotel rates are as follows:

Opryland Hotel single — \$56; double — \$56. Reservations must be accompanied by a \$50 deposit.

Airport Hilton Inn single — \$34; double — \$40. Reservations must be accompanied by a deposit of one night's room rate.

Transportation and Hotel Location

Opryland Hotel is located 7 miles from the Metro Airport and 9 miles from downtown Nashville. Opryland Hotel provides free parking for guests. Opryland provides bus transportation from the airport to the hotel for \$3 per person. Buses are on call from the baggage area after 7:30 P.M. The Hilton, located a quarter mile from the airport, provides courtesy transportation to and from the airport.

Reduced Rate Advance Registration

In order to avoid waiting in line, and to save money, register in advance by mail. The advance registration form should be returned by January 13, 1982, with payment to: SMPTE Registration, 862 Scarsdale Avenue, Scarsdale, NY 10583. Badges and tickets will be waiting for registrants at the Conference registration desk in the Opryland Hotel, starting at 3:00 P.M. on Thursday, February 4.

	<i>Before January 13</i>	<i>After January 13</i>
<i>Registration Rates</i>		
Member Registration	\$95.00	\$110.00
Nonmember Registration	\$110.00	\$125.00
Member Daily	\$60.00	\$70.00
Nonmember Daily	\$70.00	\$80.00
Spouses' Program	\$25.00	\$25.00
Get-Together Luncheon	\$30.00	\$30.00

Refunds

Refunds will be given for all requests received at SMPTE Headquarters by Friday, January 29. No refunds will be given after January 29.

Advance Program

This program lists all papers accepted for the Television Conference as of November 1, 1981. Additional papers are being reviewed and may be included in the final program, which will be available at the Conference. Questions about specific papers or sessions should be addressed to Program Chairman Larry Brown, WTVF, Channel 5, 474 James Robertson Parkway, Nashville, TN 37219, (615) 244-5000; or to the Conference Program Manager, Lynne Robinson, SMPTE, 862 Scarsdale Ave., Scarsdale, NY 10583, (914) 472-6606. The final program — which will give titles of papers, authors' names, and times of presentation — will be available from SMPTE Headquarters on January 25 and at the Conference.

Friday Morning, February 5

New Television Technologies

Digitally — What's Up? A Report on Progress and Directions from the Working Group on Digital Video Standards

Kenneth P. Davies, *Canadian Broadcasting Corp., Montreal, Canada*

The Hawkeye Recording System

C. R. Thompson, *RCA Broadcast Syst., Camden, N.J.*

Development of a Precise Registration and Level of TV Signal Measuring Equipment and Its Applications

T. Sueoka, K. Wakui, K. Murakami, and H. Nakamura, *NHK Technical Research Laboratories, Tokyo, Japan, and Shiba-Soku Co. Ltd., Saitama, Japan*

New Integrated Circuits for Video Digital Filters

Willard K. Bucklen, *TRW LSI Products, La Jolla, Calif.*

Optimization of High Quality Color Camera for ENG/EFP Purposes

A. A. J. Franken and N. V. Rao, *Amperex, Slatersville, R.I., and N.V. Philips, Holland*

Development of Broadcast Color Camera Using a Single Pickup Tube

Y. Kubota, T. Iwasaki, and Lawrence See, *Sony Corp., Tokyo, Japan*

Digital Television Tape Recording — Forming a Format

J. L. E. Baldwin, *Independent Broadcasting Authority, United Kingdom*

The Interrelationship of Computer Graphics and Algebraic Videotext Systems

Peter Black, *Xiphias, Santa Monica, Calif.*

Graphics System

Richard J. Taylor, *Quantel Ltd., Newbury, England*

Code Utilization for Component-Coded Digital Video

D. Izraelvitz and J. L. Koslov, *RCA Laboratories, Princeton, N.J.*

Friday Afternoon

Multi-Channel Television Audio

Multi-Channel Production Experiments

CBS, Inc., New York, N.Y.

A Review of Issues Related to the Choice of Sample Rates to Digital Audio

J. James Gibson, *RCA Laboratories, Princeton, N.J.*

Audio Problems in One-Inch Videotape

Martin Lilley, *Ampex Corp., Redwood City, Calif.*

EIA Multi-Channel Sound Field Test Report

Electronics Industries Association, Washington, D.C.

Multi-Channel Sound from NHK

NHK, Tokyo, Japan

Panel Discussion on Multi-Channel Television Audio

Saturday Morning, February 6

Digital Control of Television Equipment

Status Report: SMPTE Working Group T14.10: Standardization of Digital Control for Television Equipment

William E. Bauer (Committee Secretary), *RCA Corporation Broadcast Systems, Camden, N.J.*

Network of 60 Microcomputers Automates PBS Multi-Channel Satellite Program Distribution

George E. Lemaster and Robert W. Schmidt, *Public Broadcasting Service, Washington, D.C.*

A Serial Communications Architecture for Real-Time Digital Control

Robert B. Steele, Graeme M. Little, and William A. Russell, *Ampex Corporation, Redwood City, Calif.*

Machine Control System

Thomas R. Meyer, *Dynair Electronics, Inc., San Diego, Calif.*

Serial Data Machine Control System

Marc Walker, *Fernseh Inc., Salt Lake City, Utah*

The VIMACS System

Derek Tugwell, *Dynamic Technology Ltd., London, England*

A Rationalized Approach to Broadcast Automation

Peter Symes, *Central Dynamics Corp., Mahwah, N.J.*

Television Station Automation — The Station's Viewpoint

John T. Davis, *Digital Services Corp., Gainesville, Fla.*

Saturday Afternoon

High Definition Television Systems

High Definition Television and Compatibility with Existing Standards

Charles Sandbank, *British Broadcasting Corp., London, England*

Approaches to Improve Picture Quality Within Constraints of Current Scanning Standards

Charles W. Rhodes, *Tektronix, Inc., Beaverton, Oreg.*

Production Experience With High Definition Television

Richard Green, *CBS Television, New York, N.Y.*

An Overview of High Definition Television

Renville McMann, *Thomson-CSF, Stamford, Conn.*

A Compatible High Fidelity Television Standard for Satellite Broadcasting

T. S. Robson, *Independent Broadcasting Authority, Winchester, England*

Color Picture Display System for High Definition Television

Eiichi Taira and Minoru Takeda, *Matsushita Electric Industrial Co., Ltd., Osaka, Japan*

High Resolution Optical Systems for High Definition Television

Jack Dawson, *Fujinon Optical Inc., Scarsdale, N.Y.*