

22nd Annual SMPTE Television Conference

January 29 and 30, 1988
Opryland Hotel, Nashville, Tenn.

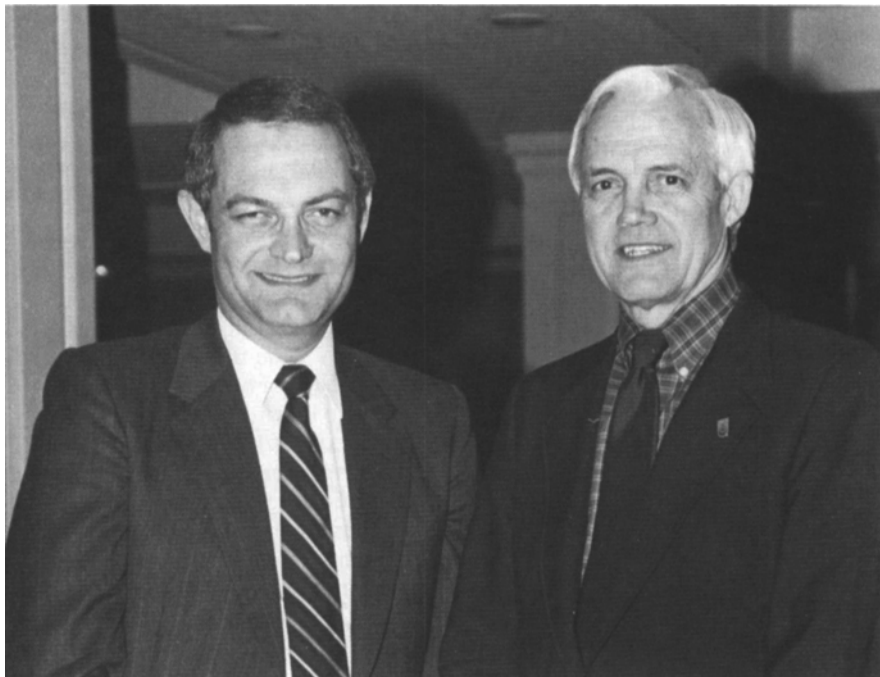
The 22nd Annual Television Conference of the Society of Motion Picture and Television Engineers was held January 29-30, 1988, at the Opryland Hotel in Nashville, Tenn. During the two days, more than 650 people — members and officers of the Society and representatives of the television industry worldwide — attended technical sessions, equipment exhibits, SMPTE-sponsored engineering demonstrations, and other events.

The conference was under the overall supervision of SMPTE Editorial Vice-President Howard T. La Zare, Deluxe Laboratories, Inc., and Conference Vice-President Blaine Baker, MPL Film & Video, Inc. J. Wayne Caluger, Caluger & Associates, and Mike Arnold, Scene Three, were program chairman and program vice-chairman, respectively.

Bill Watson, MPL Film & Video, Inc., was general arrangements and entertainment chairman. Watson's committee consisted of James Edwards (Registration Chairman), Tektronix, Inc.; Duane Muir (Membership/Hospitality Chairman), Nashville Tech; Winston Tharp (PA and Recording Chairman), MPL Film & Video, Inc.; Mike Quinn (AV and Opening Films Chairman), Mid West Communications Corp.; Russ McCown (Display Chairman); Ralph Hucaby (Facilities and Security Chairman), Radford Associates; Buddy Gailey (Assistant Auditor), Nissan Motor Manufacturing Co.; Lee Whitehurst (Transportation Chairman), MSMV; and Scotty Whitehurst (Spouses Program Chairperson).

The Technical Program

The technical program was comprised of 30 papers, which Caluger and Arnold grouped into four half-day topic sessions: Video Recording Formats, Signal Distribution and Processing, Planning and Maintaining Systems, and Post-Production. Serving as session chairmen and co-chairmen were Bernard Dickens, CBS, Inc.; Charles Sandbank, British



SMPTE Editorial Vice-President Howard T. La Zare (L) with Conference Vice-President Blaine Baker.

Broadcasting Corp.; Frederick Remley, Univ. of Michigan; Murray Bevit, M.B. Associates; William Nicholls, CBS, Inc.; Ken Davies, Canadian Broadcasting Corp.; C. Robert Paulson, Artel Communications Corp.; and Ginny Faison, Quantia Corp.

Editorial Vice-President Howard La Zare delivered the welcoming address on Friday morning, January 29. The speech signaled the start of conference proceedings and was followed by technical presentations by distinguished speakers from four countries — the U.S., Japan, England, and West Germany. The presentations given at the conference follow.

Video Recording Formats

Video Recording Formats in Transition
Koichi Sadashige, consultant, Berlin, N.J.

Measuring and Maintaining the Performance of the Component Analog Video Tape Recorder
Luke Freeman, Ampex Corp.
Technical Challenges of a New

Small-Format Digital VTR
John Watney, Ampex Corp.

A New Approach to the D-1 Digital Television Tape Recorder
Rolf Hedke, Broadcast Television Systems

The Application of High HC Cobalt-Iron Oxide Tape for D-1 Digital Video Recording

K. Isesaka, Y. Fujimaki, T. Nakamura, S. Takahashi, Sony Magnetic Products, Inc.; and K. Kobayashi, Sony Corp. of America

Diagnostics for a Composite Digital VTR

William Herz, Ampex Corp.

Flickerless 3-D Laser Video Disc System

T. Hioki, Tateo Toyama, Yoshihiko Morita, Hiroshi Watanabe, Sanyo Electric Co., Ltd.; and H. Isono, M. Yasuda, H. Kusaka, M. Yamada, NHK Science and Technical Laboratories

Signal Distribution and Processing

Communications Between Analog Component Production Centers



Members of the SMPTE Executive Committee: (L-R) Executive Vice-President Maurice L. French, President M. Carlos Kennedy, and Past-President Harold J. Eady.

C. J. Dalton and A. T. Malcher, Independent Television Companies Assoc. (ITCA)

Digital Interface Devices

Gerhard Wischermann, Broadcast Television Systems

Experience with a Digital Video Production Facility

C. J. Dalton and N. W. Green, Independent Television Companies Assoc. (ITCA)

Television Signal Transmissions: Technology in Transition

C. Robert Paulson, Artel Communications Corp.

A Single Channel Backward-Compatible EDTV System

A. B. Lippman, A. N. Netravali, E. H. Adelson, W. R. Newman, and W. F. Schreiber, Massachusetts Institute of Technology

Noncompatible 6-MHz High-Definition TV Distribution Systems

W. F. Schrieber, A. B. Lippman, A. N. Netravali, E. H. Adelson, and D. H. Staelin, Massachusetts Institute of Technology

HDTV — A Perspective for the Broadcaster

Larry Thorpe, Sony Broadcast Products Co.

HDTV — Delivery to the Consumer
E. B. Crutchfield, National Association of Broadcasters

Planning and Maintaining Systems

Computer-Aided Design in Facilities and System Integration

Ed Webster and Ron Jones, Centro Corp.

Design of an Analog and Digital Component Facility

William C. Spencer, Tele-Systems International, Inc.

Fault Diagnosis in the Digital Television Studio

D. J. Bradshaw, British Broadcasting Corp.

Challenges to the Development of Studio Picture Monitor Specifications

Roland J. Zavada, Eastman Kodak Co.

Control Room Design and Monitoring Considerations for Accurate Stereo Imaging

Robert L. Todrank, Valley Audio

Generation of Test Signals for Stereo Audio Tape Leaders

Ed Fritz, RTS Systems

Graphics Applications for Engineers
Cathy Galvin, Ampex Corp.

Post-Production

Audio for Video: The Integration of Digital

Oliver Morgan, EECO/Convergence

Digital Audio Storage in the Sirius-100

David E. Acker and Mack Leathurby, FOR-A Corp. of America

Controlling Audio Mixers in Video Post-Production

Michael D. Patten, Graham-Patten Systems, Inc.

Real-Time Multi-Level Digital Compositing

Peter D. Symes, Grass Valley Group, Inc.

The Digital Production Center
Richard J. Taylor, Quantel Ltd.

System Considerations for Off-Line Video Disc Editing

Stanley D. Becker, CMX Corp.

VITC and Perfs

Bob Nollner, MPL Film & Video, Inc.



Program Chairman J. Wayne Caluger (R) and Program Vice-Chairman Mike Arnold.



General Arrangements/Entertainment Chairman Bill Watson (L) with SMPTE Conference Vice-President Blaine Baker.



Some of the key organizers of the 22nd Annual SMPTE Television Conference: (L-R) Ralph Hucaby, Duane Muir, Russ McCown, J. Wayne Caluger, Bill Watson, Mike Quinn, Jim Edwards, and Buddy Gailey.



Spouses enjoy a continental breakfast at the Opryland Hotel before taking in the sights and sounds of historic Nashville.



Spouses Program Chairperson Scotty Whitehurst.



SMPTE Engineering Vice-President Stanley N. Baron, Editorial Vice-President Howard T. La Zare, and Financial Vice-President Stephen D. Kerman.



SMPTE publications and informational brochures on display directly outside the session room on both days of the conference.