

# 25th Annual SMPTE Television Conference

February 1–2, 1991, Detroit, Michigan

The technical program has been established for the 25th Annual SMPTE Television Conference, to be held at Detroit, Michigan's Westin Hotel on Friday, February 1, and Saturday, February 2.

According to Program Chairman Rudy Kryger, CBC, 26 technical papers, focusing on the conference theme "A Television Continuum — 1967 to 2017," have been selected for presentation at the conference. The program will be divided into four sessions: A Path to the Future, Forward to the Present, Back to the Future, and Crossroads to the 21st Century. A tentative schedule of the program, as of October 29, appears below.

## Technical Sessions

### Friday Morning, February 1

#### **A Path to the Future**

The Changing Role of the Television Engineer, *Irv Rosner, Rosner TV*  
Potholes on the Path to the Future, *Charles Anderson, Cat Works*  
Past 35 Years and Future 10 Years of Videotape Recording, *Hiroshi Sugaya, Kyushu Institute of Design*  
The Economic Reality of Television Technology and Production (The more things change, the more they remain the same), *Charles H. Jablonski, NBC*  
The Television Revolution in Great Britain, *Gary Tonge, I.T.C.*  
Fiber to the Studio — A Metropolitan Area Network, *W. Wallace Murray, Michigan Bell*  
Advances in Cart Machine Control Systems, *Raymond K. Baldock and Tim Crabtree, Odetics, Inc.*

### Friday Afternoon

#### **Forward to the Present**

Techniques for High Accuracy Measurement in HDTV Systems, *Ed Wardzala, Tektronix, Inc.*  
Audio Measurement for HDTV Evaluation, *Richard C. Cabot, Audio Precision*  
To be announced (On the subject of computer/television/human interface), *Bill Hanson, Apple Computer*  
New Technology in Still Stores — What are the Implications? *Peter Owens and Robert Pank, Quantel*



Downtown Detroit skyline.

Trends in ENG Equipment (8mm), *Patrick Whittingham, Sony Corp.*

A Study of the Most Suitable Level and Width of DTL for CCD Cameras, *Hiroshi Kouchi, NHK*

Development of the Super-Harp Camera, A Rival to the Human Eye for the Next Generation of Broadcasting, *Tetsuo Suzuki and Junichi Yamazaki, NHK*

To be announced (On the subject of HDTV), *Laurence Thorpe, Sony Corp.*

### Saturday Morning, February 2

#### **Back to the Future\***

Practical Aspects of Serial Digital, *Peter Dare and David Huxfield, Sony Corp. (England)*

Serial Digital Routing and Interfacing for the TV Studio of the Future, *Kevin J. Prince, Alpha Image Inc.*

Proposal for Error Detection and Handling in Studio Equipment, *Bob Elkind and David Fibush, Tektronix, Inc.*

Transform/Subband Coding for Video Compression, *David Baylon and Jae S. Lim, M.I.T.*

Clock Rate Conversion for Digital Video, *Jukka Hamalainen, J. Shields, and K. Stec, Matsushita Research Labs*

Image Compression in Television Post Production, *John P. Watney, Ampex Corp.*

An Experimental Digital VCR with New DCT-Based Bit-Rate Reduction and Channel Coding Methods, *Naoki Endoh, Toshiba Research and Development*

\* A 30-minute panel discussion with

the authors will follow the presentations.

### Saturday Afternoon

#### **Crossroads to the 21st Century\***

A 1/2-Inch High-Definition VCR with a Single Channel Analog Baseband Recording Method, *Takashi Furuhata, Hiroaki Takahashi, Kichizae-mon Okazaki, and Michiyori Miura, Hitachi Ltd.*

Characteristics of the Magnetic Recording System of the Next Century, *Koichi Sadashige, Consultant*  
Open Architecture Television, *Michael Bove and Andrew Lippman, M.I.T.*

Plasma Addressed Liquid Crystal (PALC) — A New Flat Panel Technology for Full-Color Video, *Tom Buzak, Tektronix, Inc.*

\* This is a joint session with the Audio Engineering Society (AES). In addition to the papers listed, four AES papers will be presented.

### Special Activities

Several social events have been planned, including celebrations of the conference's 25th anniversary and the Society's 75th anniversary. On Thursday, January 31, a Welcoming Reception touting the conference's 25th year will take place in the Riverfront Ballroom of the Westin Hotel. Friday afternoon will offer a Get-Together Luncheon at the Westin Hotel's Mackinac Room. A special banquet honoring the Society's milestone will take place at the International Banquet and Conference Center on Friday evening. Housed in the middle

of Detroit's Greektown, the Center will offer a sit-down Greek-style dinner as well as ethnic music and dancers. An additional fee of \$30 will be required in order to attend this event.

Also, conference registrants are invited to attend an Automotive Session, sponsored by the AES, on Sunday, February 3.

### Spouses Program

Spouses Program Chairwoman Judy Stefani, FilmCraft Video, plans to get spouses well-acquainted with the Motor City. On Friday the group will visit an automotive factory and several auto barons' mansions. Saturday's venue includes visits to several art galleries, a luncheon at Meadow Brook Hall, and a late-afternoon tea. Each program participant will receive a decorative silver-and-black pin commemorating the 25th television conference. In addition, spouses will be provided with a packet of helpful tourist information so they may further explore the Detroit area, including nearby Windsor, Ont., Canada. The Spouses Program is \$50 for advance registration and \$60 for on-site registration.

### Hotel Reservations

Rooms have been reserved for conference attendees at the Westin Hotel. Rates are per night, with an addi-

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### Hotel Rates

Westin Hotel	Standard	Medium	Double
Single	\$95	\$110	\$125
Double	\$110	\$120	\$140

### Registration Rates

	Advance Rate	On-Site Rate
Member Registration w/Lunch	\$195	\$225
Nonmember Registration w/Lunch	225	250
Student Member	FREE	FREE
Student Nonmember	25	25
Friday Banquet	30	30
Spouses Program	50	60
Get-Together Luncheon	30	35

### All-day Tutorial Rates

Members	\$75
Nonmembers	\$75

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tional sales tax added. Hotel reservations must be made on forms which you will receive from SMPTE headquarters. This form should be returned to the hotel by December 25, 1990, to get the special conference rate. **DO NOT MAIL HOTEL RESERVATION FORM TO THE SMPTE.**

### Reduced-Rate Advance Registration

To avoid waiting in line, and to save

money, register for the conference in advance, by mail. Those who register before December 25, 1990, will pay the advance-registration rate of \$195 for SMPTE members and \$225 for nonmembers. After the deadline the fees will increase to \$225 for members and \$250 for nonmembers. An advance registration form will be sent by headquarters. It should be returned with payment in U.S. funds to SMPTE Registration, 595 W. Hartsdale Ave., White Plains, NY 10607.

## Digital Recording Tutorial

January 31, 1991, Detroit, Mich.

An all-day seminar on digital recording will precede the television conference on Thursday, January 31, at the Westin Hotel. Prepared by SMPTE Engineering Director of Television Ken Davies, CBC, the tutorial will provide attendees with the information and skills needed for the introduction, application, and system-level maintenance and operation of digital recording.

The program will be divided into several sessions. John Watkinson, a noted technical expert and author of *The Art of Digital Video*, will present "Fundamentals of Digital Recording — Part A." John P. Watney, Ampex Corp., will then present "Fundamentals of Digital Recording — Part B."

During "Putting Video and Audio on Tape," Watkinson and Watney will make a presentation on video and audio recording. Koichi Sadashige, Consultant, will conclude the session with a talk on specialized recorders, touching on magnetic discs, optical, and RAM.

"Recorder Characteristics" will feature Jurgen

Heitmann, BTS, and Hugo Gaggioni, Sony, who will discuss the D-1 4:2:2 component and HDTV. Eric F. Morrison, Ampex Corp., and Yoshinobu Oba, NHK, will then provide information about the D-2 and D-X NTSC composite formats.

"Video and Audio Applications in Production," will include a presentation by François Michaud, CBC, on interfaces, video, audio, and data control; a discussion on D-1 applications by Marcos Obadia, Lime Lite Video; and information on D-2 applications, provided by Tom Cavanagh, CBC. There will also be a presentation on LMS Systems. Koichi Sadashige will discuss the future of digital recording, focusing on bit-rate reduction, new media, and innovative formats.

A wrap-up session will include summaries of the presentations, demonstrations of recent production elements from digital recorders, and an opportunity to interview speakers and discuss the specifics of digital recording. The fee for the all-day tutorial is \$75 for both SMPTE members and nonmembers.