



Plans for 17th Annual TV Conference Near Completion (Feb. 4-5, 1983)

San Francisco and the Oakland Bay Bridge.

The arrangements and program for SMPTE's 17th Annual Television Conference, to be held in San Francisco (February 4-5, 1983) are near completion. The Conference is under the supervision of Vice-President of Television Affairs L. Merle Thomas, WJZ-TV; Editorial Vice-President Maurice French, CBC, Toronto; and Conference Vice-President Charles Ahto, Tape-Film Ind., New York. All three have worked very hard coordinating an expert team of professionals to ensure the technical sessions and equipment exhibit, along with the myriad other details, are of the highest possible caliber.

The Technical Sessions — Pictures of the Future

Organized by Papers Program Chairman David K. Fibush, Ampex Corp., Redwood City, Calif., the technical sessions have been grouped under this year's Conference theme, "Pictures of the Future." The topics are further divided among four categories covering "Programming the Pictures," "Manipulating the Pictures," "Generating the Pictures," and "Recording the Pictures."

According to Fibush, the papers program will include technical con-

tributions from around the world, with important presentations from England, Germany, and the Netherlands, to name a few.

The order of presentation of the technical sessions, and the chairman in charge of each session, are as follows:

Friday morning — *Generating the Pictures*

Topic Chairman: Ray Swenson, KTVU, Danville, Calif.

Friday afternoon — *Manipulating the Pictures*

Topic Chairman: Steve Kerman, Tektronix, Portland, Ore.

Saturday morning — *Recording the*

Along Fisherman's Wharf.

Pictures

Topic Chairman: David Fibush, Ampex Corp, Calif.

Saturday afternoon — *Programming the Pictures*

Topic Chairman: Merrill Weiss, KPIX, Concord, Calif.

Equipment Exhibit

The Conference will feature a full-scale equipment exhibit in conjunction with the technical sessions. The exhibit will be limited to equipment that directly relates to the papers program, to help illustrate the technology described in the sessions. This will give attendees the opportunity to see and handle



equipment discussed by experts at the sessions. Most major manufacturers and suppliers will participate.

Social Events

The social events will start with a Get-Together Luncheon featuring guest speaker Boris Townsend, Head of Engineering Services, IBA. There will also be a Spouses' Program, arranged by Francis Kennedy, Helen Brill, and Maggie Wagner. The program includes a trip to the Show Place Design Center for a look at the latest interior furnishings and appointments, a fashion show, and a mini-tour of beautiful San Francisco for a look at a wide variety of boutiques, Chinatown, and arts and crafts. On Friday evening there will be a wine and cheese tasting party, arranged by Donald Lincoln, KPIX, and SMPTE members of the Elk's Club. On Sunday morning, after the sessions and technical exchanges are over, a bus will leave the St. Francis Hotel with 49 people bound for a tour of the Napa Valley wine country. Seats for the tour are limited, and will be assigned on a first-come, first-

served basis. It is recommended that those interested make reservations when they send in their early registration forms for the Conference. The wine tour is being arranged by Judi Puckett-Fibush and Charles Anderson, Ampex Corp.

Hotel Reservations

The Conference and Exhibit will be held at San Francisco's historic St. Francis Hotel, a city landmark since 1904. It is suggested that hotel reservations and Conference registration be completed in advance. *Do not mail hotel reservations to SMPTE.* Hotel rates are given below.

Reduced Rate Advanced Registration

As with last year, those registering for the Conference in advance will receive reduced rates. The advance registration form should be returned, with payment, no later than January 13, 1983, to: SMPTE Registration, 862 Scarsdale Avenue, Scarsdale, New York, 10583.

Advance Program

This program tentatively lists all the papers for the Television Conference as of November 20, 1982. Additional papers are being reviewed and may be included in the final program, which will be available at the Conference. Questions about the program, specific papers, or sessions should be addressed to Program Chairman David K. Fibush, Ampex Corp., 401 Broadway MS 3-59, Redwood City, CA 94063, (408) 277-3868; or to Editorial/Program Coordinator Mary Connolly, SMPTE, 862 Scarsdale Ave., Scarsdale, NY 10583, (914) 472-6606. A more complete program, with updated paper titles, will be available in the January *SMPTE Journal*.

Friday Morning, February 4

Generating the Pictures
 Practical Application of HDTV
Pat Lewis, Ames Research Labs
 Film Relations to HDTV
Richard Schafer, Eastman Kodak Co.

Hotel Rates — Main Building			
Single	Double	Twin	Suites
\$81	\$94	\$94	\$230 and up
Hotel Rates — Tower			
Single	Double	Twin	Suites
\$95	\$107	\$107	\$275 and up

Registration Rates	Before Jan 13	After Jan 13
Member Registration	\$100	\$120
Nonmember Registration	\$125	\$150
Member, Daily	\$75	\$90
Nonmember, Daily	\$90	\$100
Spouses' Program	\$35	\$40
Wine Tour	\$23	\$23



Photos courtesy of the S.F. Convention and Visitor's Bureau



Picturesque California Street.

Generation of HDTV Still Frames
Glen Southworth, Colorado Video Systems

New Chrominance Components for Consideration in HDTV
Charles Rhodes, Scientific Atlanta

Review of SMPTE and JCIC Committee Work in the Area of HDTV Generation
Bill Hogan, Ruxton Ltd.

The HDTV Camera — Fighting the Resolution/Noise Battle
U. Reimers, Bosch GmbH

Today's Photographic Imaging Technology for Tomorrow's HDTV System
R. C. Sehlin, Eastman Kodak Co.

Friday Afternoon

Manipulating the Pictures

Arithmetic Processing of Digital Video Effects

Jim Blecksmith, Grass Valley Group

The Technical Director Interface to Digital Video Effects

Dennis Fraser, NEC America

The Computer-Controlled Frame Buffer as a Production Tool

Tom Klimek, Computer Creations

Manipulating the Pictures

Peter Black, Xiphias

A Menu-Driven Control Structure for TV Graphics Generation

Dick Shoup, Aurora Imaging Systems

Tools For Interactive Picture Processing — Input, Creation, Manipulation

Alan Bridges, Via Video

Digital Animation Techniques

Lance Williams, N.Y.I.T.

Computer Animation for the Feature Film *Tron*

William Dungan Jr., Information International



The Hotel St. Francis, staunch survivor of the 1906 earthquake.

Saturday Morning, February 5

Recording the Pictures

An Introduction to Analog Component Recording Techniques

K. Sadashige, Matsushita Electric Corp. of America

Broadcast Quality Recordings with Consumer Video Cassettes

I. Arimura, Matsushita Electric Corp. of America

Digital Video Recording — New Results in Channel Coding and Error Correction

J. Heitmann, Bosch GmbH

The Type C Format — A Moving Target

W. Carpenter, Ampex Corp.

Channel Coding and Data Scrambling for DVTR's

J. Baldwin, IBA

Diagnostics for a Microprocessor-Based Videotape Recorder

G. Rose and G. Warren, Ampex Corp.

A New Generation of Type C 1-in. VTR

H. Tanimura, Peter Lowten, and Y. Fujiwara, Sony Corp.

8-9 Block Code: A DC-Free Channel Code for Digital Magnetic Recording

H. Yoshida, Y. Hashimoto, and T. Shimada, Sony Corp.

Saturday Afternoon

Programming the Pictures

How Not to Be Frightened by Microprocessors

E. Stan Busby, Ampex Corp.

Sharing the Software Development Load Between User and Manufacturer

Larry Seahorn, Control Video Corp.

Microprocessor Control Achieves Design Flexibility for Video Production Switchers

Howard Butler, Grass Valley Group

Comprehensive Computer Support in TV Production and Transmission

Michael S. Tooms, Protel Broadcasting Services, Ltd.

Videotape Editing Using Vertical Interval Time Code

Mike Racelo, EECO

Product Growth Through Software
Bernard Hurley, RCA Broadcast Systems

A Microprocessor-Based Camera Remote Control Unit

John A. Grey, RCA

Diagnostics for a Microprocessor-Based Videotape Recorder

Glenn Rose, Ampex Corp.

Digital Diagnostics — How Much Should the Patient Tell

Roy Trumbull, KRON-TV

Rolling Your Own — Customized Microcomputers for Custom Applications

S. Merrill Weiss, KPIX

— Mark Ferris Askew



One of San Francisco's famous cable cars.