



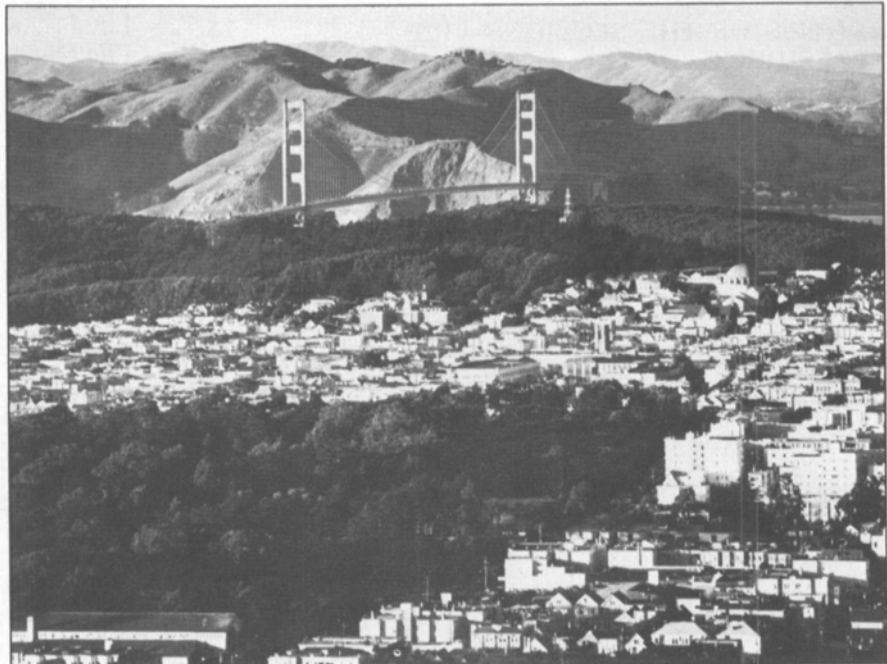
SMPTE's 17th Annual TV Conference

February 4-5, San Francisco

The technical program for SMPTE's 17th Annual Television Conference and Equipment Exhibit, to be held in San Francisco, Feb. 4-5, 1983, will feature some 34 technical presentations, demonstrations, and tutorial papers, along with an exhibit designed to give attendees a chance to handle the equipment discussed in the sessions. Vice-President for Television Affairs L. Merle Thomas, WJZ-TV, Editorial Vice-President Maurice L. French, Canadian Broadcasting Corp., and Conference Vice-President Charles A. Ahto, Tape-Film Industries, have all worked very hard putting together a program of the highest possible caliber.

Organized by Papers Program Chairman David K. Fibush, Ampex Corp., the technical sessions are headed by this year's Conference theme, *Pictures of the Future*. Under this theme are four topic areas sure to provide complete coverage of the latest advances in television technology. The four categories include "Generating the Pictures," "Manipulating the Pictures," "Recording the Pictures," and "Programming the Pictures."

In addition to the extensive coverage provided by the sessions, the program also reflects SMPTE's growing status in the international community. According to Fibush, the papers program will include technical contributions from around the



Panoramic view of San Francisco.



A recent TV Conference session.

Program Outline

Friday morning—Generating the Pictures

Session Chairman: *Ray Swenson, KTVU*
Vice-Chairman: *Gerry Brill, Ampex Corp.*

Friday afternoon—Manipulating the Pictures

Session Chairman: *Steve Kerman, Tektronix*
Vice-Chairman: *Bob Daines, Custom Video Systems*

Saturday morning—Recording the Pictures

Session Chairman: *David Fibush, Ampex Corp.*
Vice-Chairman: *Tom Mehrens, Sony Corp.*

Saturday afternoon—Programming the Pictures

Session Chairman: *Merrill Weiss, KPIX-TV*
Vice-Chairman: *Roy Trumbull, KRON-TV*

globe, with important presentations from England, Germany, the Netherlands, and Japan, to name a few.

The Equipment Exhibit

The Conference will feature a full-scale equipment exhibit to accompany the technical sessions. The exhibit will be limited to equipment that directly relates to the papers program, to help illustrate the technology 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.

Arrangements Committee Chairmen for 17th Conference



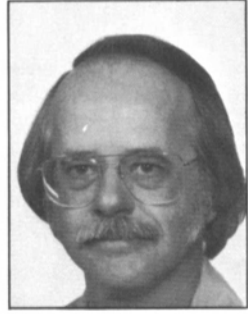
Maurice L. French
Editorial Vice President



Charles A. Ahto
Conference Vice President



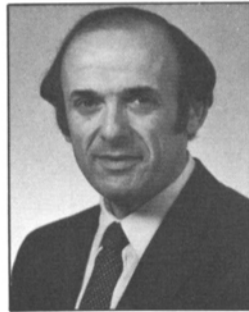
L. Merle Thomas
Vice-President of Television Affairs



Glen Pensinger
General Arrangements Chairman



David K. Fibush
Papers Program Chairman



Steve Kerman
Session Chairman



Ray Swenson
Session Chairman



Merrill Weiss
Session Chairman



Donna Foster-Roizen
Publicity Chairwoman



Vernon Kipping
Audio Visual Chairman



Donald E. Lincoln
Wine and Cheese Party Chairman



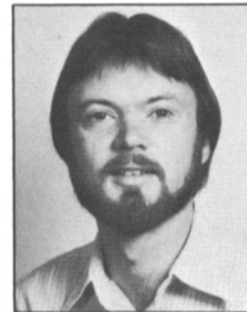
Charles E. Anderson
Sunday Tour Chairman



Judi Puckett-Fibush
Sunday Tour Chairwoman



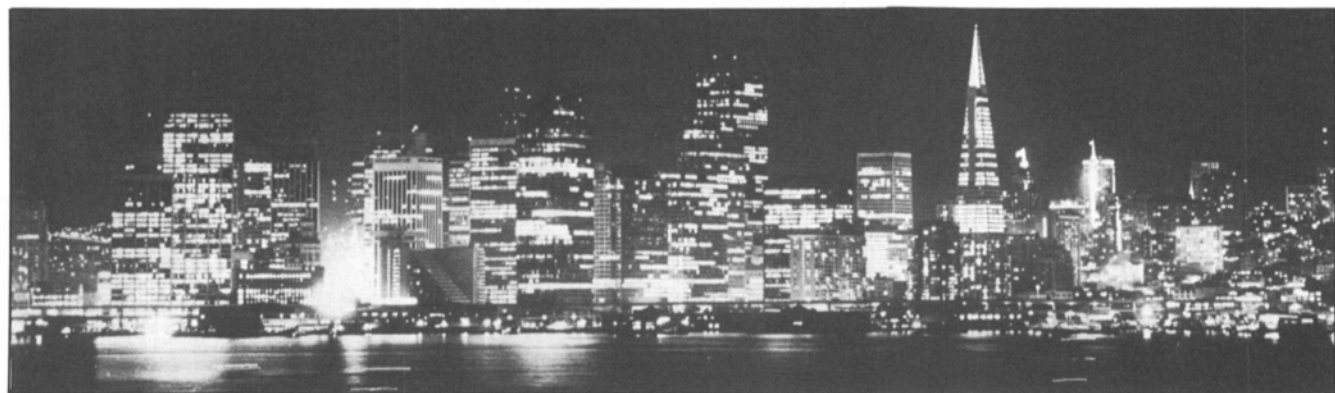
Fran Kennedy
Spouses' Program Chairwoman



John A. Carlson
Registration Chairman

Susan Blumenberg
Membership and Publications Chairwoman

Michael K. Brinks
Opening Tapes Chairman



San Francisco by night.

San Francisco by night.

SMPTE Journal, January 1983

THE ONLY 1-INCH THAT WON'T UNPREPARED

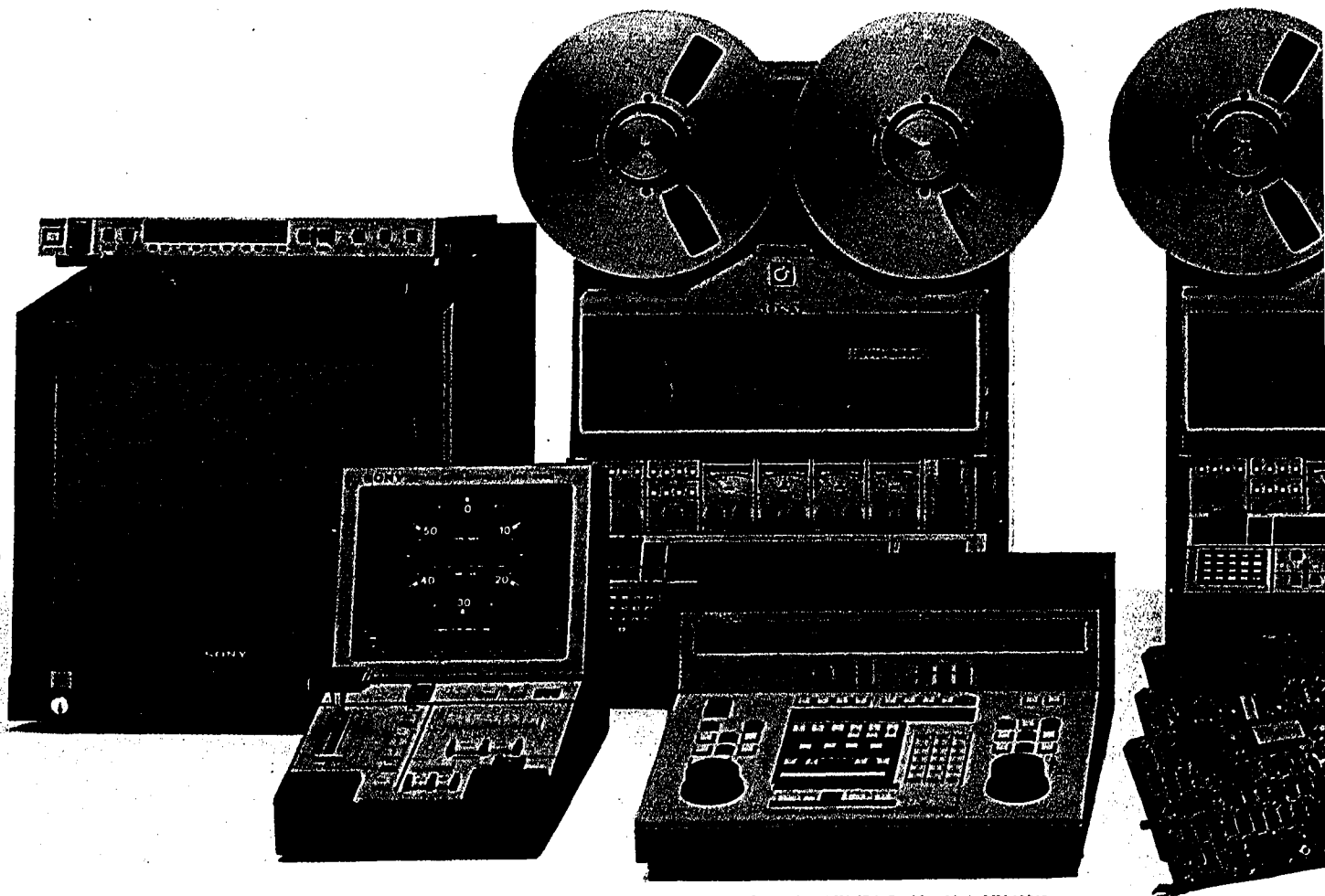
Sometimes success can be a mixed blessing. Because as your business grows, it usually outgrows your equipment. Which could leave you with the extremely costly prospect of having to replace your entire system.

Fortunately, there's an alternative: the Sony BVH-2000—the only 1-inch video system that can be tailored to fit your present applications and

budget, then retailed as your needs change.

For example, any of three different recorder control panels can be incorporated, ranging from a basic model to one with virtually every feature and function currently available to 1-inch video users.

Various remote-control connectors allow you to alter the system's configuration as the need arises, and various circuits and modules—including an op-



VIDEO SYSTEM LEAVE YOU FOR SUCCESS.

tional time base corrector—plug directly into the BVH-2000 recorder.

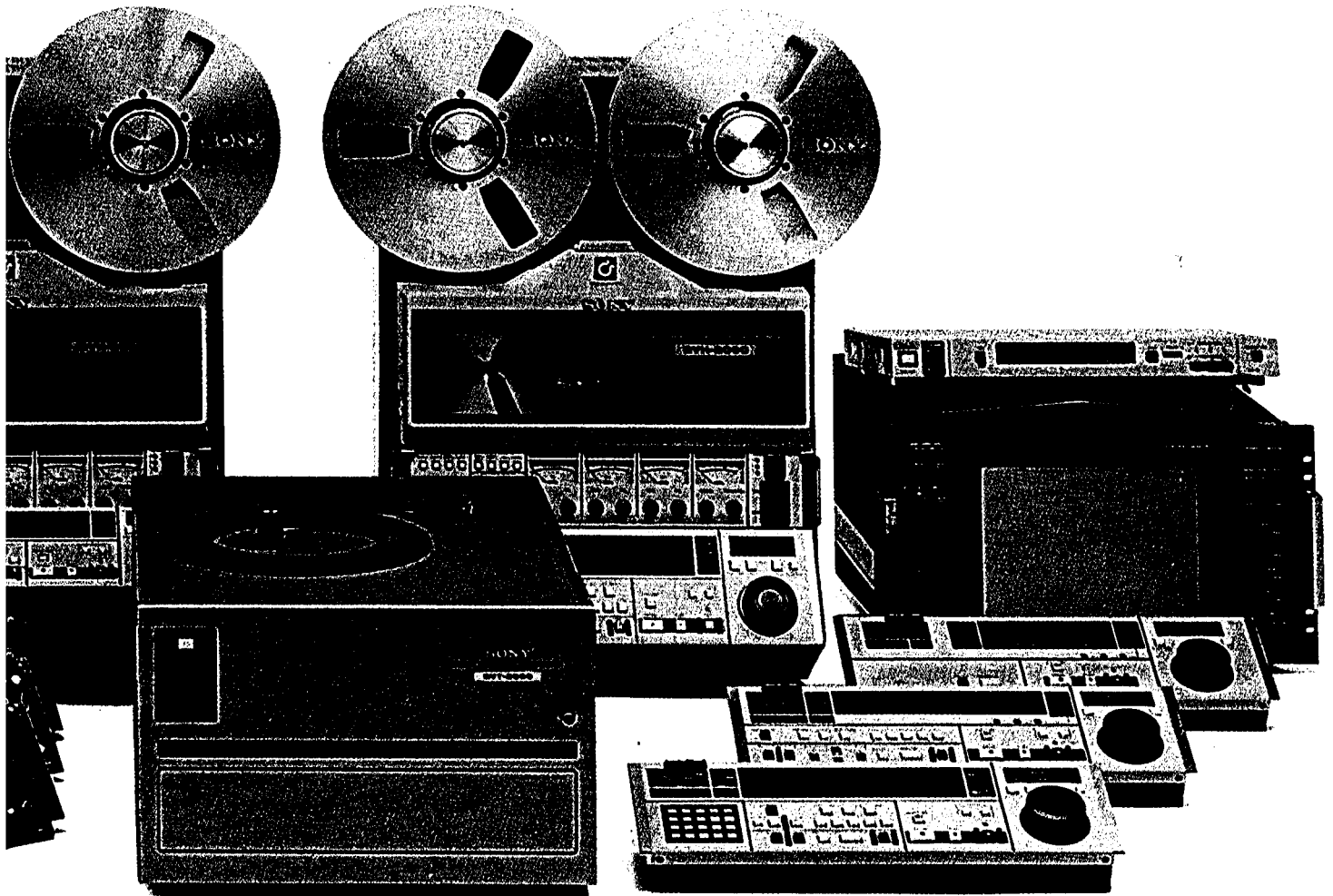
What's more, you can interface directly with other Sony formats, such as U-matic® and Betacam,™ and the BVH-2000 can be easily integrated into any existing Sony 1-inch system.

All of which enables the BVH-2000 to simplify one of the most complicated processes in the broad-

cast industry: the transition to success.

To find out how the BVH-2000 can help you deal with both your present and future needs, call Sony in New York/New Jersey at (201) 368-5085; in Chicago at (312) 860-7800; in Los Angeles at (213) 841-8711; in Atlanta at (404) 451-7671; or in Dallas at (214) 659-3600.

SONY
Broadcast



Advance Program

This program tentatively lists all the papers for the Television Conference as of Nov. 19, 1982. A final program 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 will be available from Headquarters sometime in January.

Friday Morning, February 4

Generating the Pictures

Review of SMPTE and JCIC Committee work in the area of HDTV

Bill Hogan, Ruxton Ltd.

New Chrominance Components for Consideration in High Definition and/or Digital TV Systems

Charles Rhodes, Scientific Atlanta, Atlanta, Ga.

The HDTV Camera—Fighting the Resolution/Noise Battle

Dr. Ulrich H. Reimers, Robert Bosch GmbH, W. Germany

A High-Definition Still Frame Television System

Glen Southworth, Colorado Video Labs, Boulder, Col.

Extended Definition Television with High Picture Quality

Dr. B. Wendland, Univ. of Dortmund, Dortmund, W. Germany

Today's Photographic Imaging Technology for Tomorrow's HDTV System

Richard Schafer, et al, Eastman Kodak Co., Rochester, N.Y.

Compatible Systems for High Fidelity Television

Richard N. Jackson, Philips Research Labs, Surrey, U.K., and Dr. M. Annegarn, Philips Research Labs, Eindhoven, The Netherlands

Switching and Distribution of High Resolution RGB Video Signals

Patric L. Lewis and Lee V. Good, Ames Research Center, Moffett Field, Calif.

Friday Afternoon

Manipulating the Pictures

Arithmetic Control Algorithms for Digital Video Effects

Jim Blecksmith, Grass Valley Group, Grass Valley, Calif.

Technical Director's Interface to Digital Video Effects

Dennis Fraser, NEC, Elk Grove Village, Ill.

The Computer Controlled Frame Buffer as a Production Tool

Tom Klimek, Computer Creations, South Bend, Ind.

Computer Graphics Animation

Peter Black, Xiphias, Santa Monica, Calif.

A Menu-Driven User Interfaces for Videographics

Dick Shoup, Aurora Imaging Systems, San Francisco, Calif.

Tools for Interactive Picture Processing Systems

Alan Bridges, Via Video, Cupertino, Calif.

Digital Animation Techniques

Lance Williams, NYIT Architecture Machine Labs, Old Westbury, N.Y.

Graphical Digits

Richard Taylor, Quantel Ltd., Kenley, Surrey, Eng.

Computer-Generated Animation in Film Production

William Dungan, Jr., Information International, Culver City, Calif.

Saturday Morning, February 5

Recording the Pictures

The Type C Format—A Moving Target

W. Carpenter, Ampex Corp., Redwood City, Calif.

A New Generation of Type C 1-inch VTR

H. Tanimura, Y. Fujiwara, and Peter Lewton, Sony Video Products, San Jose, Calif.

Analogue Components, Multiplexed Components and Digital Components—Friends or Foes?

John Baldwin, IBA, Winchester, Hants, Eng.

An Introduction to Analog Components Recording Technique

Koichi Sadashige, Matsushita Electric Corp. of America, Secaucus, N.J.

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

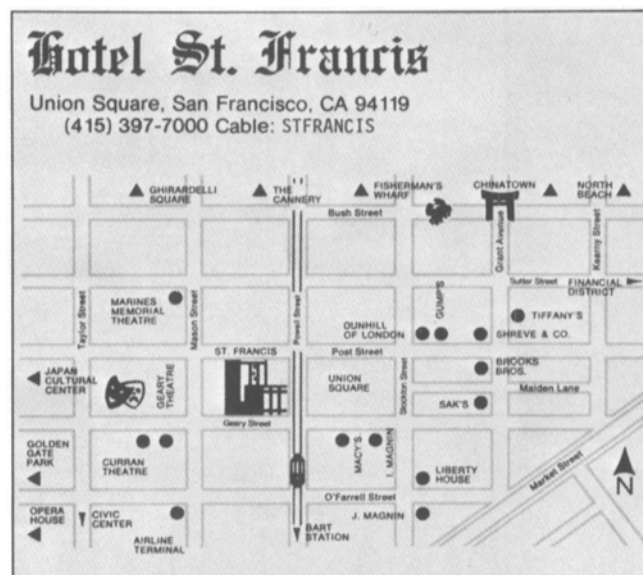
Juergen K. R. Heitmann, Robert Bosch GmbH, Darmstadt, W. Germany

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

H. Yoshida, Y. Hashimoto, and Y. Fujiwara, Sony Corp., Atsugi-shi, Kanagawa-Ken, Japan

Broadcast Quality Recordings with Consumer Video Cassettes

I. Arimura and Koichi Sadashige, Matsushita Electric Corp. of America, Secaucus, N.J.



Map showing location of the Hotel St. Francis.

GEVAERT

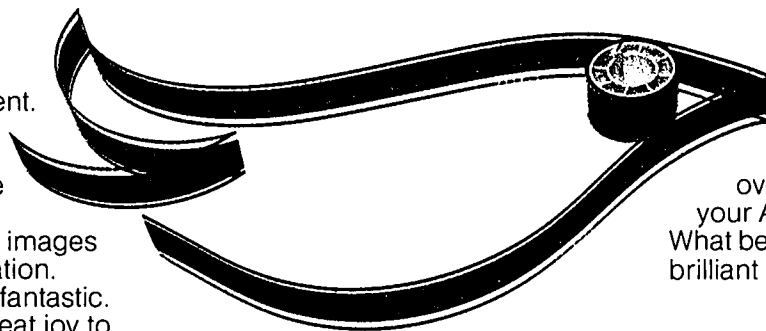
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In Australia: Agfa-Gevaert Ltd.
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Saturday Afternoon

Programming the Pictures

How Not To Be Frightened by Microprocessors

Stan Busby, Ampex Corp., Redwood City, Calif.

Sharing the Software Development Load Between User and Manufacturer

Larry Seahorn, Control Video, Campbell, Calif.

Microprocessor Control Achieves Design Flexibility for Video Production Switcher

Howard Butler and David C. White, Grass Valley Group, Grass Valley, Calif.

Diagnostics for a Microprocessor-Based Video Tape Recorder

Glenn Rose and Gary Warren, Ampex Corp., Redwood City, Calif.

Product Growth Through Software

Bernard Hurley, RCA, Camden, N.J.

A Microprocessor-Based Camera Remote Control Unit

John A. Grey, RCA, Camden, N.J.

Comprehensive Computer Support in TV Production and Transmission

Michael S. Tooms, Protel, Surrey, England

Video Tape Editing Using Vertical Interval Time Code

Mike Racelo, EECO, Santa Ana, Calif.

Digital Diagnostics—How Much Should the Patient Tell

Roy Trumbull, KRON-TV, El Cerrito, Calif.

Rolling Your Own—Customized Microcomputers for Custom Applications

Merrill Weiss, KPIX-TV, Concord, Calif.



A recent Equipment Exhibit.



Downtown San Francisco.

Reduced Rate Advanced Registration

Those wishing to register for the Conference in advance will receive reduced rates. The advance registration form should be returned, with payment, no later than Jan. 13, 1983 to: SMPTE Registration, 862 Scarsdale Ave., Scarsdale, N.Y. 10583.

Hotel Reservations

The Conference and exhibit will be held at San Francisco's beautiful St. Francis Hotel, a historic city gathering place since 1904. It is suggested that hotel reservations and Conference registration be completed in advance. *Do not mail hotel reservations to SMPTE.*

Social Activities

An entertaining and relaxing series of social events will also be held during the Conference, starting with a Get-Together Luncheon on Friday. The Luncheon will feature guest speaker Boris Townsend, Head of Engineering Services, IBA. There will also be a Spouses' Program, arranged by Fran Kennedy. The Spouses' Program includes a trip to the Show Place Design Center, and a mini-tour of San Francisco. In addition to these activities, there will be a Friday evening wine and cheese tasting party arranged by Donald Lincoln, KPIX, and SMPTE members of the Elk's Club. On Sunday morning, when the technical exchanges are over, there will be a wine tour of the Napa Valley, thanks to the organizational efforts of Judi Puckett-Fibush and Charles E. Anderson, Ampex Corp.

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 for the Conference. The cost of the tour will be about \$23 per person, and is non-refundable.

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

Hotel Rates

Main Building

Single	Double	Twin	Suites
\$81	\$94	\$94	\$230 and up

Tower

Single	Double	Twin	Suites
\$95	\$107	\$107	\$275 and up

The specs are outstanding, but your studio monitors will provide all the proof you need. Your productions will be sharper and clearer with high definition performance from edge-to-edge and throughout the zoom range. You'll see truer color and higher contrast. What you won't see is distortion. Or a high price.

Fujinon's new P17x16.5ESM outperforms the competition with better color focus tracking, better corner registration, lower distortion and better MTF. And it maintains the Fujinon tradition of high speed (to help you keep your light levels reasonable) with excellent ramping characteristics. You can maintain the F2.1 maximum aperture from 16.5mm out to 218mm.

When you have to get in close, the MOD is only 0.75m. If you're up against the back wall, you have a choice of two range extenders (a Fujinon exclusive) which provide a maximum range of 16.5 out to 560mm. And if you use computerized camera setup, the built-in Fujinon diascope delivers the accuracy you expect.

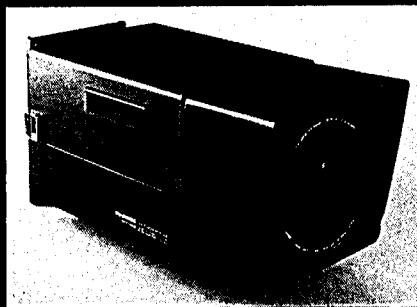
Short MOD — only 0.75m

Two built-in range extenders give you three zoom ranges:

(X1)	16.5 to 280
(X1.5)	24.8 to 420
(X2.0)	33.0 to 560

Outstanding ramping characteristics — zoom out from 16.5 to 218 mm at a constant F 2.1 aperture.

At 16.5mm, the horizontal field angle is 54°50' for virtual wall-to-wall coverage.



A full range of accessories, including Fujinon's microprocessor shot boxes, give you unexcelled flexibility with total control over zoom speed, direction and focal lengths.

With all its performance advantages, you'd expect Fujinon's new P17x16.5ESM to cost a lot more than the competition. Unfortunately for the competition, it costs the same. And for 1-inch format, the new R17x12.5 offers equal performance and value advantages. For more information, talk to your Fujinon representative or contact:



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Fujinon's New 17x16.5*

*F & F Productions took the 17X outside and down to Guayaquil, Ecuador for its 14-camera coverage of the 4th World Swimming & Diving Championship. George Orgera (F & F vice president and general manager) picked the 17X because "We knew it would deliver the performance we needed under lighting we couldn't control. Then again, the only lenses we use are Fujinon."