

12th Annual SMPTE Television Conference

3-4 February, Sheraton-Atlanta Hotel, Atlanta, Ga.

The SMPTE Television Conference has earned a reputation as one of the most important meetings of the year for people in the television field. In the past, these Conferences have dealt with subjects of the greatest concern to broadcasters, and the 12th SMPTE Television Conference that will be held in February in Atlanta follows this tradition. This time three major subjects will come under scrutiny. The first is One-Inch Videotape, a subject in which the SMPTE has played a major role the past year. The second is Digital Video, a subject in which the SMPTE has long experience and in which the SMPTE has provided the major body of information to the industry. The third subject is Video Still Store, which is of growing importance to broadcasters as the technology evolves.

One of the nice things about SMPTE Television Conferences in recent years is the Equipment Exhibit, which runs in conjunction with, and in support of, the Conference Technical sessions. The concept of targeting Equipment Exhibits to the subjects of a program has been very popular with attendees at previous Television Conferences. The SMPTE expects most manufacturers of one-inch videotape equipment, digital video equipment, and video still-store and slow-motion equipment to participate.

The Program Chairman for this Conference is **Richard Streeter**, CBS Television Network, New York. The Arrangements Chairman is **Eugene Myler**, Eastman Kodak Company, Atlanta.

Reduced-Rate Advance Registration

Advance registration at reduced rates will be available. To avoid waiting in line to register, and to save money, register in advance by mail. An advance registration form has been sent to all members. It should be returned with payment to SMPTE TV Conference, 862 Scarsdale Ave., Scarsdale, NY 10583. Badges and tickets will be waiting for registrants

at the Conference Registration Desk. Advance registrations must be received by 27 Jan. to obtain the reduced rate.

Registration Rates	Advance	At Conference
Member Registration (both days)	\$50.00	\$65.00
Nonmember Registration (both days)	60.00	75.00
Member Daily Registration	30.00	40.00
Nonmember Daily Registration	35.00	45.00
Spouses Registration	15.00	20.00
Get-Together Luncheon	10.00	10.00

Hotel Reservations

The postage-paid hotel reservation card that was sent to all members should be used to reserve accommodations at the Sheraton-Atlanta. To be assured of a reservation at the special Conference rates, mail the card to the hotel as soon as possible. If the card is not used, please specify that you will be attending the SMPTE Conference. The rates are Single \$32.00; Double \$40.00.

For those who wish to stay at a different hotel, the following hotels will have availabilities for SMPTE Conference attendees. When making reservations, please specify that you are attending the SMPTE Conference.

Sheraton Biltmore 817 W. Peachtree St. (404) 881-9500 Single \$27; Double \$34	Peachtree Plaza Peachtree and International Blvd. 800-228-3000 Single \$38-\$52; Double \$48-\$62
Atlanta Hilton Cortland at Harris 800-282-6565 Single \$36-\$52; Double \$48-\$64	Hyatt Regency 265 Peachtree St. 800-228-8000 Single \$35-\$50; Double \$45-\$60

Get-Together Luncheon

A Get-Together Luncheon is scheduled for the Conference on Friday, February 3.

Advance Program

This program contains all papers submitted, but not necessarily accepted, for the Television Conference at the time of publication. Questions about specific papers or sessions should be addressed to SMPTE Headquarters, Attn: Lynne Robinson, Conference Programs Secretary, 862 Scarsdale Ave., Scarsdale, NY 10583, (914) 472-6606; or to Program Chairman Richard Streeter, CBS Television Network, 51 W. 52 St., New York, NY 10019, (212) 975-4553. The final program with titles of papers, authors, and times of presentation will be available from SMPTE Headquarters on 23 January, and at the Conference.

FRIDAY, 3 February

PRODUCTION EXPERIENCE IN BROADCAST-QUALITY ONE-INCH VIDEOTAPE MACHINES

Opening Slide Program will be: **A Salute to the Broadcasting Industry**, sponsored by Eastman Kodak Co.

An Overview of One-Inch Helical Video Recording
Frederick M. Remley, Jr., *University of Michigan, Ann Arbor, Mich.*

Videotape Program Production at CBS Studio Center
William G. Connolly, *CBS Television Network, New York, N.Y.*

Post-Production and Production Experiences with One-Inch Videotape
E. Grey Hodges, Jr., *Jefferson Productions and Jefferson Pilot Broadcasting Co., Charlotte, N. Car.*

Technical Description of Sony's Portable One-Inch Machine, BVH 500: First Discussion of Its Technical Parameters
M. Morizono, *Sony Corp., Tokyo, Japan*

Post-Production Experience with One-Inch Videotape
Pat Pintus, *CTP, Salt Lake City, Utah*

BCN Digital Store: Standalone Operations, Production and Post-Production Accessory for all Broadcast VTRs
Henry Zahn, *Robert Bosch GmbH, Fernseh Group, Darmstadt, W. Germany* and C. Robert Paulson, *AVP Communication, Westborough, Mass.*

Users' Experience with Type B "BCN Helical" Portable and Studio Editing VTR
Bill Kelly, *WNEW-TV, New York, N.Y.*

A New Edit Room Using One-Inch Non-Segmented Helical VTRs
William C. Nicholls, *CBS Television Network, New York, N.Y.*

Proposed Type C Helical-Scan Recording Format: A Tutorial Paper
David Fibush, *Chairman, Helical-Scan Subcommittee*



SONY
DIGITAL TIME BASE CORRECTOR

POWER
ON
OFF

INPUT LEVEL

NORMAL BYPASS DIRECT PROCESS

ADV. SYNC PHASE VIDEO CHROMA SET UP HUE SYSTEM PHASE SYNC S/C
PRESET MANUAL PRESET MANUAL PRESET MANUAL PRESET MANUAL

The Sony BVT-1000. Consider the logic.

A time base corrector is part of a system. A system that includes a video tape recorder.

Isn't it logical that a company which manufactures video tape recorders would have an inside track on what it takes to correct time base error in a VTR signal?

We're talking, of course, about Sony Broadcast.

The company that pioneered professional U-matic video recorders. And introduced the BVH-1000 1" High Band Video Recorder, that has the whole broadcast industry moving in a new direction.

Sony Broadcast has matched these impressive video recorders with an equally impressive digital time base corrector. The BVT-1000.

And before you face up to the difficult decision of which TBC is best for you, consider the logic of the BVT-1000.

1. The economy of a complete package. Sony Broadcast knows that line-by-line velocity compensation, complete video processing with advance sync, drop-out compensation, and the ability to handle both direct and heterodyne color are not just "options."

They're requirements. Requirements that broadcasters need and use in day-to-day operations.

So we make all these so-called options standard built-in features of the BVT-1000. And you save dollars in our greater production efficiency.

2. The advantage of superior technology. The economy of the BVT-1000 doesn't mean you sacrifice quality.

Far from it. The BVT-1000 incorporates unparalleled

technological excellence. Excellence demonstrated by a unique A/D converter that expands the effective number of bits per word, resulting in a higher signal-to-noise ratio than theoretically expected in an 8-bit system. Which leads to transparent picture quality.

With the Sony Broadcast BVH-1000 1" recorder, the BVT-1000 provides locked recognizable color pictures from still-frame to seven times normal speed. And to greater than thirty times normal speed in monochrome. So your editing techniques are faster and more critically accurate than ever before possible.

And for use with U-matic format recorders, the BVT-1000 offers special advantages. A wide 4H window and special anti-gyro circuitry compensate for wide errors and maintain both color and luminance stability.

Advance sync control allows phase correction using LED indicators at the TBC, for system integration. And the video level can be monitored by LEDs that show at a glance high or low level relative to one volt peak-to-peak.

3. The logic of a systems approach. If you are into electronic news gathering, or if you're part of the new revolution in 1" high band machines, the chances are very good that you're already using Sony recorders.

The BVT-1000 gives you an opportunity to add new logic to your broadcast equipment. The logic of an all-Sony system.

For full information about the BVT-1000 or any of the other professional video products in the Sony Broadcast family, call your nearest Sony Broadcast office.

Sony Broadcast

Sony Corporation of America, 9 West 57 Street, New York, New York 10019
New York: (212) 371-5800 Chicago: (312) 792-3600 Los Angeles: (213) 537-4300 Canada: (416) 252-3581

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Mechanical Design Considerations for Helical Scan VTRs
D. Ryan, *Ampex Corp., Redwood City, Calif.*
Panel Discussion to be chaired by Joe Roizen, *Telegén,
Palo Alto, Calif.*

SATURDAY, 4 February

DIGITAL VIDEO FOR PRODUCTION USE

INVITED PAPER: John Baldwin of the Independent Broadcasting Authority, London, England, has been invited to give a status report and a demonstration on the work being done by the IBA on digital television recording.

Progress Report on Digital Video Standards

R. S. Hopkins, *RCA, Camden, N.J.*

The Role of the Digital Fieldstore Synchronizer in Television Productions

J. Brian Matley, *Micro Consultants, Inc., Palo Alto, Calif.*

Recent Innovations in Digital Special Effects

J. Kenneth Moore, A. Kaiser, H. W. Mahler, *CBS Technology Center, Stamford, Conn.*

The Television Framestore as a Production Tool

Thomas M. Gurley, *RCA, Camden, N.J.*

An Integrated, NTSC, Teleproduction Switching Facility, Capable of Performing "Film-Type" Optical Transitions in Real Time

Robert McAll, *Vital Industries, Inc., Hicksville, N.Y.*

Frame Synchronizer Application in Production Switching
M. Shimizu, *NEC, Tokyo, Japan*

SATURDAY AFTERNOON

RECENT ADVANCES IN VIDEO STILL STORE AND SLOW MOTION

From Graphic Artists to Composite Scene — The Digital Way

Robert Mausler, *National Broadcasting Co., New York, N.Y.*

A Large-Scale High-Retrieval-Speed Holographic Still-Picture Filing System

Akito Iwamoto, *Toshiba Research and Development Center, Kawasaki, Japan*

Video Slow Motion and Frame Storage Using Flexible Magnetic Discs

Lee Stratton, *Arvin-Echo, Mountain View, Calif.*

Adda Corporation Electronic Still Processor

William Hendershot, *Adda Corp., Campbell, Calif.*

The Type B "BCN" Film Style Editing System

Jurgen Heitmann, *Robert Bosch GmbH, Fernseh Group, Darmstadt, W. Germany*

New Developments and Features on the ESS Digital Recorder

W. Justus, *Ampex Corp., Redwood City, Calif.*

Exhibitors (as of 16 Dec.)

The following companies applied for exhibit space as of 16 Dec. 1977. The final directory of exhibitors will appear in the Conference Program which will be available at the Conference and from SMPTE headquarters after Jan. 26.

Adda Corp.

1671 Dell Ave., Campbell, CA 95008

Exhibiting: ESP-System/Digital, computer-controlled, electronic still processor system.

Personnel: William B. Hendershot III, Duane Tuttle.

Ampex Corporation

401 Broadway, M.S. 11-13, Redwood City, CA 94063

Exhibiting: Electronic Still-Store, quadruplex and helical videotape recorders; digital time-base corrector.

Personnel: Richard Sirinsky, Mark Sanders, Arnold Taylor, Paul Hansil, Al Slater, Bill Justus, Howard Lilley.

Arvin/Echo Science Corp.

485 E. Middlefield Rd., Mt. View, CA 94043

Exhibiting: Arvin/Echo Slo-Mo-1 Slow Motion Recorder/Reproducer, and EFS-1A Broadcast Frame-Stor Discassette Recorder/Reproducer.

Personnel: W. Nichols, L. Stratton, P. Crosno, R. Williams, T. Boussina, J. Blackie, T. Grosboll.

Eigen Video

P.O. Box 1027, Grass Valley, CA 95945

Exhibiting: Color Slow-Motion Disc recorder for sports, freeze-frame, and animation.

Personnel: George Foster, Jim Hebb, Arie Landrum.

Lenco, Inc., Electronics Division

300 N. Maryland St., Jackson, MO 63755

Exhibiting: Digital terminal equipment, including "300 System" with video test equipment, video and digital pulse generation,

processing and distribution equipment, B/W monitors, video noise meters.

Personnel: Dick Lawrence, Howard McClure, Lee Caput.

Micro Consultants, Inc.

2483 E. Bayshore Rd., S. 209, Palo Alto, CA 94303

Exhibiting: The DFS-3100 Framestore Synchronizer represents the forefront of technology. We will also display the DFS-1500 Fieldstore Synchronizer and DTC-300 Digital Time Base Corrector.

Personnel: George Grasso, Brian Matley, Herb Quilitzsch, Paul Fletcher.

NEC America, Inc.

130 Martin Lane, Elk Grove Village, IL 60007

Exhibiting: FS-15 Frame Synchronizer.

Personnel: Hugh Gillogly, Dennis Fraser.

Sony Corp. of America

9 West 57th St., New York, NY 10019

Exhibiting: One-inch Helical, Videotape Recorders, in studio and portable configurations, plus related accessory equipment.

TeleMation, Inc.

P.O. Box 15068, Salt Lake City, UT 84115

Exhibiting: Compositor TM Graphics System. This device utilizes a digital mini-computer which processes RS-232 data received from operator keyboards via two-conductor wire; recalls characters, edge, and color information stored on disk memory; and displays same via a character generator.

Personnel: G. Elsaesser, D. Rhodes, A. Schoenberg, G. Bates, L. Ehnstrom, M. Richardson.

Vital Industries, Inc.

3700 NE 53 Ave., Gainesville, FL 32601

Exhibiting: Digital effects and production switches.

Personnel: Eric King, Bob McAll, Gordon Peters, Morrell Beavers.