# The 23rd Annual SMPTE Television Conference

## February 3–4, 1989, San Francisco, Calif.

The theme of the 1989 Television Conference, to be held Friday, February 3, and Saturday, February 4, 1989, is "Better Video Images." The conference will take place at the St. Francis Hotel in San Francisco, Calif.

The newest developments in HDTV and other advance techniques will be presented. Program Chairman Peter Hammar, Hammar Communications, has scheduled production topics in the mornings and broadcast topics in the afternoons. Current trends will be addressed on Friday with future concepts covered on Saturday. The papers will be divided into four sessions.

- Friday Morning: Better Video Images in Current Production
- Friday Afternoon: Better Video Images in Current Broadcast
- Saturday Morning: Better Video Images in Future Productions
- Saturday Afternoon: Better Video Images in Future Broadcast

### Technical Sessions

***Friday Morning, February 3***
***Session A: Better Video Images in Current Production***

Session Chairman: Sterling Davis

*System-Wide Integration of Analog and Digital Component Video in a Post-Production Environment*, Jim Farney and Bob Frey, Pacific Video Resources, San Francisco, Calif.

*Conversion to MII, A Major Broadcaster's Evaluation*, David Layne, KCNC-TV, Denver, Colo.

*601 — In Use*, A. J. Mitchell, The Moving Picture Co., London, England

*Naturalistic Camera Moves in Image Compositing*, Richard Patterson, Ultimatte Corp., Reseda, Calif.

*Component Digital Switching*, Andy Sheldon, Abekas Video Systems, Inc., Redwood City, Calif.

*Better Video Through Digital Post-Production Techniques*, Thomas Kennedy and Bert Swackhamer, One Pass Inc., San Francisco, Calif.

*The Gemini Process*, Stewart Dickson and Bill Villarreal, The Post Group, Hollywood, Calif.

***Friday Afternoon, February 3***
***Session B: Better Video Images in Current Broadcast***

Session Chairman: Peter J. Ludé

*International Transmission of HDTV Signals*, K. Kubota, Y. Iwadate, K. Seo, and M. Matsumoto, NHK, Tokyo, Japan

*8-City DS3 Digital Video Trail—Progress and Networking Features*, Robert J. Blackburn, Bellcore, Morristown, N.J.

*Surviving in Broadcasting's Standards "Ménage à Trois,"* C. Robert Paulson, Artel Communications Corp., Hudson, Mass.

*Reduction of Multipath Effects and Channel Distortion in Broadcast Television*, Melih Pazarci, IIT-TSC, Chicago, Ill.

*Objective Measurement Methods of Motion Artifacts for 45-Mbit, NTSC, DPCM, Bit-Reduction Video Codecs*, Howard Meiseles, Capital Cities/ABC, Inc., New York, N.Y.

*Progress Report on Improved NTSC*, Yves Faroudja, Faroudja Laboratories, Inc., Sunnyvale, Calif.

*How to Use 4:2:2 in the 16/9 Aspect Ratio*, M. Artigalas and J. L. Grimaldi, Thomson Video Equipement, Cergy St.-Christophe, France

***Saturday Morning, February 4***
***Session A: Better Video Images in Future Productions***

Session Chairman: David J. Bancroft

*Compatible Hierarchy of Studio Standards for HDTV*, Jean Chatel, Thomson Video Equipement, Sevigne, France

*Engineering and Program Production Experience with HDTV*, Norman Green, Independent Television Association, London, England

*Reducing Financial Aliasing in HDTV*, Charles A. Pantuso, Austin, Tex.

*Second-Generation HDTV Camera*, L. Thorpe, Sony Communications Products Co., Teaneck, N.J.

*HDTV Graphic System*, T. Fujimori, Sony Communications Products Co., Teaneck, N.J.

*Future HD Video Production*, Kotaro Wakui, Dentsu, Inc.; and Noboru Yura, Imagica, Tokyo, Japan


*Julius Barnathan, Capital Cities/ABC, Inc., will be the guest speaker at the Get-Together Luncheon on Friday, February 3.*

*NTSC-Compatible Advanced Television Transmission System and Implications for Studio Standards*, S. Merrill Weiss, NBC, Inc., New York, N.Y.

***Saturday Afternoon, February 4***
***Session B: Better Video Images in Future Broadcast***

Session Chairman: Roy Trumbull

*The European Perspective on HDTV*, John R. Forrest and Gary Tonge, Independent Broadcasting Authority, Hampshire, England

*High-Definition Transmission, Signal Processing, and Display*, William E. Glenn and Karen G. Glenn, New York Institute of Technology, Dania, Fla.

*Spectrum-Compatible High-Definition Television*, W. Bretl, R. Citta, Ronald Lee, and P. Fockens, Zenith Electronics Corp., Glenview, Ill.

*High-Definition Television and Today's Broadcasting World*, Yozo Ono, NHK (Japan Broadcasting Corp.), New York, N.Y.

*A Compatible High-Definition Television System Using the Noise-Margin Method of Hiding Enhancement Information*, William F. Schreiber et al., MIT, Cambridge, Mass.

*The Economic Impact of HDTV*,

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MTE

The Sound Heard Round the World®

*vanced Television: Making the Migration Possible*, S. Merrill Weiss, NBC, Inc., New York, N.Y.

### Engineering Committees

Various engineering committees will be meeting in San Francisco during the 23rd Television Conference. Times and dates are not yet finalized. Contact Si Becker at SMPTE Headquarters for more definite schedules.

### Hotel Reservations

Rooms are available at the Westin St. Francis Hotel (conference headquarters). Hotel reservations must be made on the registration card provided.

If you haven't received your registration package yet, please call SMPTE Headquarters for hotel and registration information: (914) 761-1100. Do it now! The cutoff date for the advanced registration rate is **January 3.**

### Special Airline Rates

To assist attendees with their flight plans, American Airlines, in conjunction with the SMPTE, is once again offering discounted airfares to and from San Francisco during the conference. To take advantage of this service, call 800-433-1790 and ask for Star File #S16744.

### Get-Together Luncheon

The Get-Together Luncheon will be held Friday at noon at the St. Francis Hotel. The guest speaker will be Julius Barnathan, president, broadcast operations and engineering, Capital Cities/ABC, Inc. Member and nonmember registration includes lunch.

### Spouses Program

An interesting program of activities is planned for accompanying spouses under the direction of Chairwoman Susan Carlson. Friday's program, on "Cooking San Francisco Style," will feature a leading cooking school owner, author, and instructor who will demonstrate California spa cuisine. Following a tour of the test kitchen and shop, the spouses may enjoy the dishes prepared.

On Saturday, participants in the program will tour some of San Francisco's Victorian houses. Three postcard-quality homes, known as "Painted Ladies," will be visited, complete with tours by the owners giving the history of each house. Luncheon will be served in the dining room of one of the homes visited.

### Friday Evening Reception

The traditional wine and cheese party, hosted by the local SMPTE section, will be held Friday evening, 6:00 p.m., at the Elks Club across the street from the St. Francis Hotel.

### Post-Conference Trolley Tour

***Sunday, February 5 — $35.00***

Conference attendees are invited to an informal tour of San Francisco aboard Car No. 1, the first publicly-owned streetcar in America. This 1912 trolley will travel through San Francisco's historic neighborhoods, stopping at the classic Castro Theater for a concert on their mighty Wurlitzer. There will be wine, cheese, and box lunches on board, and the trip will conclude with a guided tour of the San Francisco Zoo and its world-famous primate center. The trip will take about four hours. Tickets are available from Headquarters.

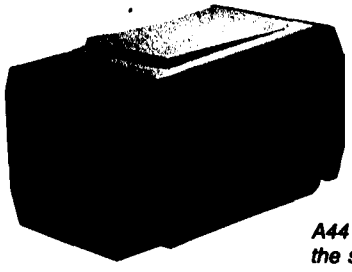
*The Westin St. Francis Hotel, site of the 23rd Annual Television Conference.*

***Before all the chips were down, FUJINON solved the lens problems for CCD cameras.***

# WITH A CCD CAMERA, WHAT YOU GET IS WHAT YOU SEE.

With CCD cameras, everything changes because you can't change anything. CCD chips are bonded to the prisms by the camera manufacturers. All the usual R-G-B channel adjustments for camera/lens set up are eliminated. To compensate for that, lens performance criteria must be far higher. FUJINON did all that, and in the process made up for the fact that there is no industry standardization in the vitally important selection of glass materials used for lenses and prism blocks.

*A18×8.5ERM extra wide and long*



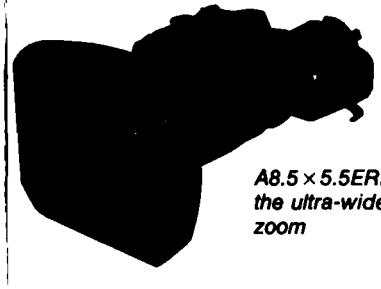
*A44×9.5ESM the super field zoom*

So, FUJINON engineers came up with a new standard.

*A14×9ERM the industry standard*

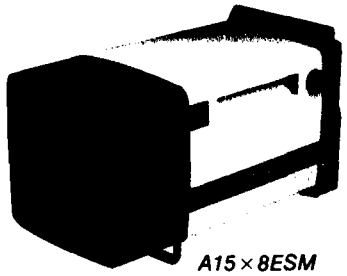
The results:

**Every FUJINON 2/3-inch lens meets the highest CCD performance requirements, offers total interchangeability, brings higher performance to tube cameras, and is compatible with every manufacturer's CCD cameras**



*A8.5×5.5ERM the ultra-wide zoom*

. . . a statement no other lens company can make.



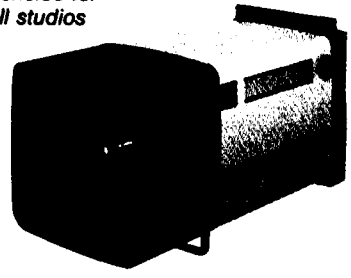
*A15×8ESM lightweight, compact, constant F1.5*

Incidentally, FUJINON also helped camera makers by devising a unique pattern projector. Used with a high resolution monitor, it permits chips to be placed within a 3 micron tolerance that reduces errors to invisibility.

When you have to select lenses for your new CCD cameras, test several FUJINON lenses against the competition. You'll see the difference. And so will your viewers.

To learn more about the 19 lenses that offer you maximum performance and total compatibility, you'll get more information or a demonstration by calling the FUJINON location nearest you.

*A20×7ESM first choice for small studios*



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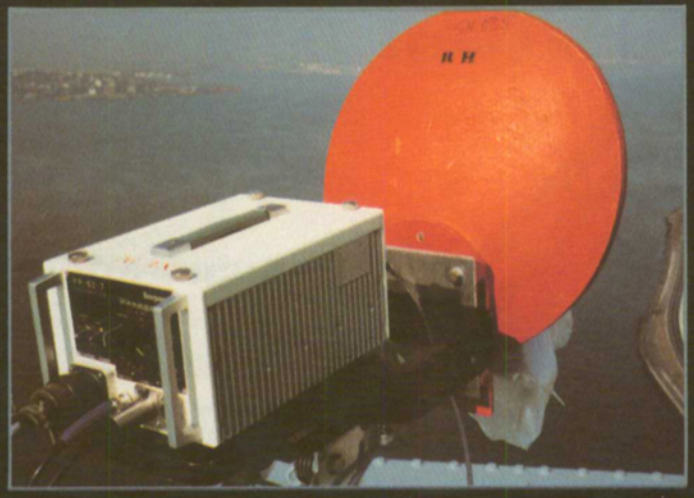
## Ikegami's Mini-Microwave Links Offer Video Coverage Never Before Possible

# PORTABLE MICRO

The PP-70 provides coverage from atop the Gulf & Western Building to a receiver at ground level for window-link transmission.



The PP-80 mounted atop the Verrazano Narrows Bridge provides spectacular coverage at the start of the NYC Marathon.

By miniaturizing sophisticated microwave technology, Ikegami's microwave links allow you to maximize your video coverage by reaching these hard to get to places and sending back those once impossible shots.

Recent uses of the PP-70 and PP-80 models include spectacular bridge-top shots of the start of the N.Y.C. Marathon, breathtaking mountain top shots of a major ski jump event and, up-close action in the pits of the Indianapolis 500.

## SUPERIOR TECHNOLOGY MEANS VIDEO COVERAGE AT ITS BEST.

High performance, state-of-the-art technology, combined with rugged, lightweight design, are just some of the many advantages you'll discover in our mini-microwave links.

When used with the appropriate antenna, the links can transmit up to 50 miles between the event site and an OB van or relay point.

The PP-70, available in 7 or 13 GHz, (soon to be available in 2GHz) features low power consumption, a built-in frequency synthesizer with 14 channels in the 7 GHz Band and 22 channels in the 13 GHz Band, a Double

# WAVE!!!

Superhetrodyne Receiver to minimize adjacent-channel interference, built-in video and audio test signal generators to simplify field operations, audible tone to insure directional alignment, and much more.

The PP-80 available in 2 or 7 GHz incorporates many of the advantages of the widely acclaimed PP-70, and adds such up-to-the-minute technologies as switchable power (low-high), and a remote control terminal for airborne operation.

Both systems are available with a wide range of antennas and accessories.

To find out more, contact Ikegami Headquarters or your nearest Ikegami microwave sales representative.

## SYSTEM FEATURES AT A GLANCE

**POWER OUTPUT**
- PP-70 – 120mW – 13GHz
  1.2W – 7GHz

**SWITCHABLE POWER OUTPUT**
- PP-80 – 2GHz 3/12 watt
  PP-80 – 7GHz 1/6 watt

**PP-70**
- Rugged two-piece design

**PP-80**
- STL applications

**PP-70 & PP-80**
- Quick disconnect antenna
- Plug in card design affords easy change of subcarrier frequencies and easy service
- FCC type acceptance
- Frequency agile
- Built-in LED field strength meter and beeper for easy antenna alignment
- External field strength meter capability
- Off-the-shelf availability
- Wide range of accessories available
- Ideal for IF (70mHz) repeat capability
- Small size, lightweight, make it ideal for mobile van applications
- Ideal for sporting applications

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Beers Associates, 112 Turnpike Road Ste. 302, Westboro, MA 01581, 508-898-3200

R&H Associates, 2060 N.E. Coachman Road, Clearwater, FL 34625, 813-442-7505

Charles Patterson & Associates, 4815 Montclair Avenue, Charlotte, NC 28211, 704-364-5146

ComLogic, Inc., 5240 E. Bromley Drive, Agoura, CA 91301, 818-991-7506

Broadcast Plus, Inc., Central American Terminal, Bowman Field, Louisville, KY 40205, 502-452-2777

Emmons Associates, Inc., 1121 Riverwood Drive, Burnsville, MN 55337, 612-890-8920

Image Marketing, PO Box 68996, Schaumburg, IL 60168, 312-885-4870

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