

Welcome Letter from the President

Welcome to Pasadena and the 142nd SMPTE Technical Conference and Exhibition. "Content Acquisition, Processing, and Distribution in the Digital Millennium" will take you through a day-long seminar, followed by three days of papers exploring the latest advances in motion imaging technology. SMPTE Conferences offer some of the best programs in the industry; they are attended by industry members from around the world. This is a great opportunity for you to explore the many new possibilities in our field, and it also affords you the chance to network and advance your own career, as well as meet old friends, and make new ones.

The Exhibition offers you an opportunity for one-on-one conversations with industry movers and shakers, as well as key decision makers. Over 75 companies are represented, all showcasing the latest equipment, services, and technology.

In between sessions and the show floor, you may want to experience all that the city of Pasadena has to offer. World-class museums, an abundance of renowned restaurants, boutique shopping, and recreation, are all within walking distance of the Pasadena Center.

And don't forget our social events. The Welcome Reception on Wednesday promises to be an engaging event, offering hors d'oeuvres to go with your networking. Leave your date book open for Friday's Industry Luncheon, where Motion Picture Association Chairman and CEO Jack Valenti will deliver the keynote address. Both the Luncheon and the Reception provide a great opportunity to meet and network with your peers in a relaxed, professionally social atmosphere.

I'm sure you will have an enlightening conference experience, and please remember to fill out the evaluation forms for each session you attend. This ensures you will continue to get the most value in future SMPTE Conferences.

Once again, I offer you a personal welcome to Pasadena, and to the 142nd SMPTE Technical Conference and Exhibition.

Charles H. Jablonski
SMPTE President

At Your Service



Charles H. Jablonski
President



Robert B. Kisor
Editorial Vice-President



Thomas M. Jordan
Conference Vice-President



Darcy Antonellis
Program Co-Chair



Barry Zegel
Program Co-Chair



Suzanne Donino
Seminar Co-Chair



Bob Schwartz
Seminar Co-Chair

142nd Technical Conference and Exhibition October 18-21, 2000 Pasadena Center, Pasadena, CA

Content Acquisition, Processing, and Distribution in the Digital Millennium

The following program is subject to change without notice.

All-Day Seminar

Wednesday, October 18

Digital Archive and Asset Management—Technology and Application

Co-Chair: *Suzanne Donino*, Turner Broadcasting
Co-Chair: *Robert Schwartz*, EMC Corp.

8:30 a.m.
Opening Remarks: *Robert Kisor*

8:45 a.m. #S-1
The Need for Digital Archive and Asset Management, *Gail Gleeson*, Turner Entertainment Networks, Atlanta, GA; and *Wendy Aylsworth*, Warner Bros., Burbank, CA

9:15 a.m. #S-2
Introductory Overview of Architectural Elements, *Duane Shugars*, DSMCI, Beltsville, MD

9:45 a.m. #S-3
Ingest, Data, and Metadata, *Brad Gilmer*, AAF Association, Atlanta, GA

10:10 a.m. #S-4
Logging, Annotation, *Virage, Inc.*, San Mateo, CA

10:35 a.m.
Break

10:50 a.m. #S-5
Media Asset Management Database, *Jim Mains*, EMC Corp., Hopkinton, MA

11:15 a.m. #S-6
Search and Browse Tools, *Avi Bender*, QB, Inc., McLean, VA

11:40 a.m. #S-7
Media Inventory Management, *Anthony Dubois*, IMMAD, Markham, Ont., Canada

12:00 p.m.
Lunch

1:15 p.m. #S-8
Criteria for Adopting a Media Asset Management System, *Janet Gardner*, eMotion Inc., Los Angeles, CA

1:40 p.m. #S-9
The Smithsonian Without Walls Case Study, *Judith Gradwohl*, Smithsonian Institution, Washington, DC

2:05 p.m. #S-10
Paramount's Entertainment Tonight Initiative Case Study

2:30 p.m.
Break

2:45 p.m. #S-11
European Case Study SAT.1 and ProSieben, *Rainer Kellerhals*, Kaiserslautern, Germany

3:10 p.m. #S-12
The Case for Efficient Data Management in Broadcast, *Carole B. Hogan*, Avalon Consulting Group, Denver, CO

3:35 p.m. #S-13
System Security for Cable Operators Entering the Digital Domain, *Julius Adams*, Ifsec, New York, NY

4:05 p.m. #S-14
Rights Management, *Brad Gilmer*, Gilmer & Associates, Atlanta, GA

4:30 p.m.
Panel Discussion and Q & A Session with the Day's Presenters

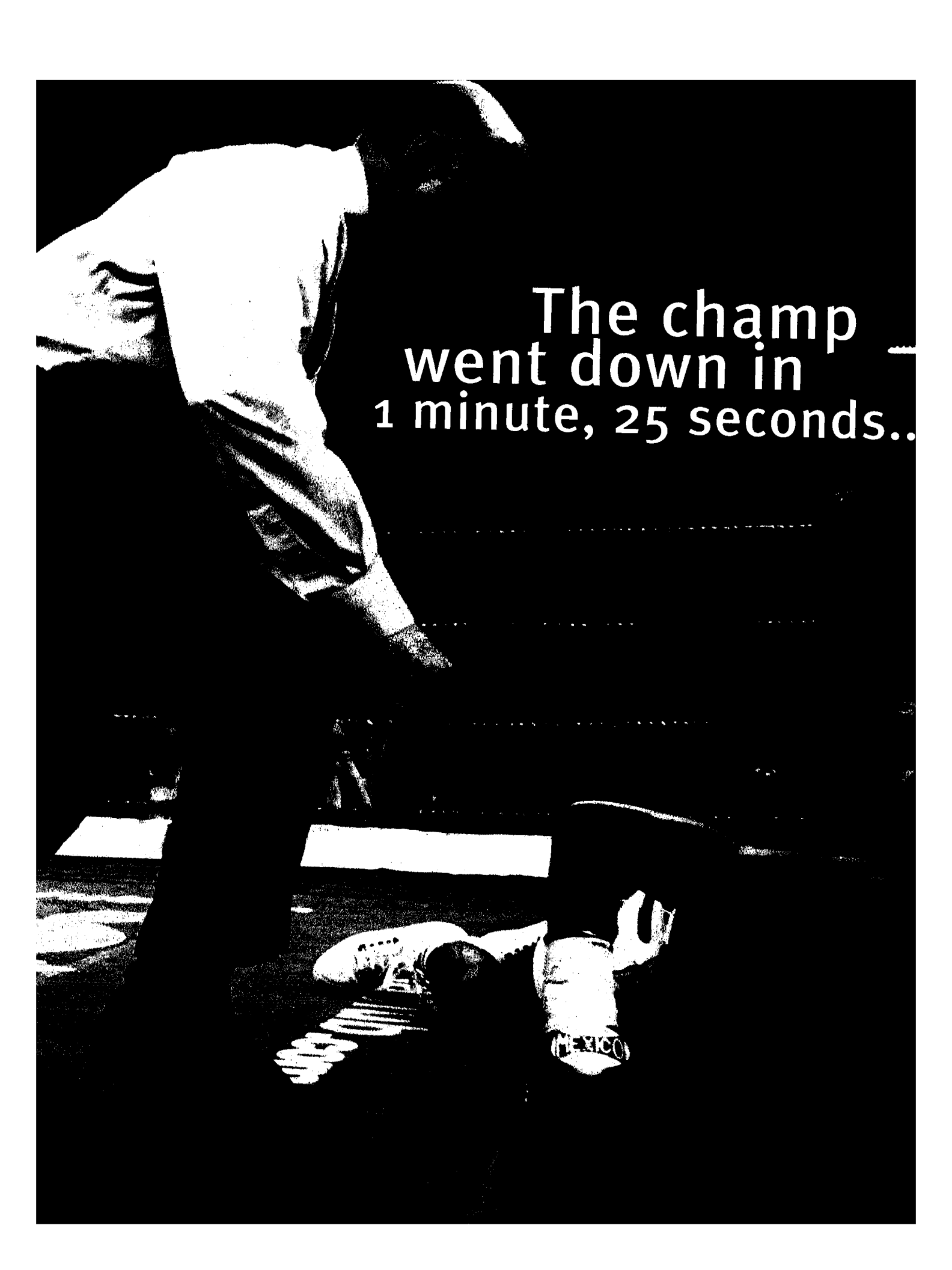
Technical Program

Thursday Morning, October 19

Broadband Distribution for Broadcast and Cable

Co-Chair: *Peter Smith*, NBC
Co-Chair: *Craig Cuttner*, HBO

8:00 a.m. #1
Advanced Television Broadcasting in a Digital Broadband Distribution Environment, *Brian Holmes* and *Ian Oliver*, IBI Group, Toronto, Ont., Canada



The champ
went down in
1 minute, 25 seconds..

8:30 a.m. #2
How ATM Networks Ensure a Transparent Transport of Realtime Professional Broadcast Services, *J. Chatel, D. M. Makoua, B. Guilbaud, P. Gendron, and L. Thebault*, Thomson Broadcast Systems, Rennes, France

9:00 a.m. #3
Cable-Compatible Digital Television Receivers and Receiver-Compatible Digital Cable Television Systems, *Bernard J. Lechner*, Consultant, Princeton, NJ

9:30 a.m. #4
Distribution of Video/Audio/Control and Metadata via a Paradigm IP Network Using QoS, High Bandwidth Efficiency, and Low Latency, *Carsten Baumann*, Leitch Inc., Burbank, CA; and *Yendo Hu*, Path 1 Network Technology, Inc., San Diego, CA

10:00 a.m. #5
Multichannel Serial Digital Video Transmission, Distribution, and Reception, *Raj Chandra, Norm Tarleton, and Michael Johnson*, Honeywell Technology Center, Phoenix, AZ

10:30 a.m. #6
Time Division Multiplexing (TDM) Video and Data Streams into a 1.5 Gbit/sec HDTV Stream, *Keping Chen and Randy Conrod*, Leitch Technology, Inc., Toronto, Ont., Canada

Thursday Morning, October 19

Digital Cinema

Co-Chair: *Curt Behlmer*, Soundelux
Co-Chair: *Robert Rast*, Dolby Labs

8:00 a.m. #7
The Future of the Moving Image, *Gary Demos*, DemoGraFX, Santa Monica, CA

8:30 a.m. #8
4:4:4 Compression of Moving Pictures for Digital Cinema Using the MPEG-2 Toolkit, *Michael W. Bruns and James T. Whittlesey*, Grass Valley Group, Beaverton, OR

9:00 a.m. #9
Balancing Technology in Digital Cinema Systems, *Steven A. Morley*, Qualcomm Inc., San Diego, CA

9:30 a.m.
Digital Cinema Study Group, DC 28 Report

Committee Chairs:

Curt Behlmer, Digital Cinema Steering Group/Systems Liaison, Soundelux Entertainment
Jerry Pierce, SG on Mastering, Universal Studios
Matthew Cowan, SG on Compression, Entertainment Technology
Walter F. Ordway, SG on Conditional Access/Encryption, Consultant

Rick Whittemore, SG on Conditional Access/Encryption, Cinea, LLC
Scott Thomas, SG on Audio, Ednet, Inc.
John Wolski, SG on Theater Systems, Loews Cineplex
Al Barton, SG on Projection, Sony
Dave Lund, SG on Projection, Media Technology Source, Inc.

12:00 - 1:45 p.m.
Fellows Luncheon

Thursday Afternoon, October 19

Webcasting and Enhanced TV—Data Broadcasting and All That's Interactive
(In conjunction with ATVEF)

Co-Chair: *Michael Dolan*, DirecTV
Co-Chair: *Dan Zigmond*, Microsoft/WebTV

2:00 p.m. #10
Interactive Television Content Authoring, *Paul Mitchell*, Microsoft TV Platforms, Redmond, WA

2:30 p.m. #11
An Open Architecture and Realization for the Integration of Broadcast Digital Video and Personalized Online Media, *Norbert Gerfelder*, Computer Graphics Center (ZGDV) Darmstadt, Germany

3:00 p.m. #12
SMPTE 334M Data—There is a Whole Industry Before Emission, *J. F. Carruthers*, Norpak Corp., Kanata, Ont., Canada

3:30 p.m. #13
Data Broadcasting: The Devil is in the Details, *John Abel and Charles Jablonski*, Geocast, Menlo Park, CA

4:00 p.m. #14
Serving Up Data for Enhanced DTV Programs, *Gomer Thomas*, Triveni Digital, Inc., Princeton Junction, NJ

4:30 p.m. #15
Data Broadcasting Solutions for Broadcasters, *Brett Jenkins*, Thomcast Communications, Southwick, MA

5:00 p.m. #16
A Standards-Based Data Broadcasting Network, *Pete Ludé*, iBlast Networks, Inc., Beverly Hills, CA

Thursday Afternoon, October 19

Content Storage and Management: Tape, Disk, Video, Film, and Virtual Environments

Co-Chair: *Andy Watson*, Network Appliance
Co-Chair: *Al Kovalick*, Pinnacle Systems

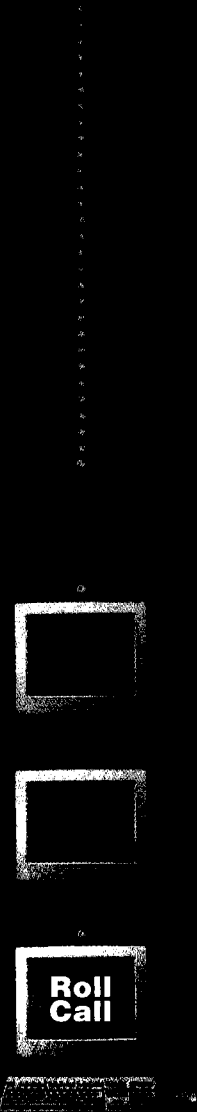
2:00 p.m. #17
Storage Area Networks in Video and Broadcast

...Unfortunately, the signal went down in 1 minute, 23.

Something can go wrong, it will. And at the first possible time. You better plan for it - or hope for the best.

RollCall, the network management system from Snell & Wilcox helps you avoid such disasters. Not only does it provide the most versatile and advanced control capability for broadcast TV stations, RollCall also offers a number of unique functions designed to give you maximum operational confidence.

RollCall dynamically monitors your entire network, irrespective of manufacturer or signal format. If there's a problem or malfunction, it flags it up for instant attention. It can also re-route the signal automatically to keep you on air.



A comprehensive logging facility records every event on the network, however minor, for subsequent analysis. So potential faults can often be diagnosed before they become catastrophic.

Using RollCall, you can even create your own multi-level, schematic view, with live information showing everything that's happening on your network.

With virtually no constraints on physical layer or software platform, RollCall provides all the tools you need to monitor and control your network, no matter how large or complex, from wherever you are in the world.

Environments, *Mitch Seigle*, LSI Logic Storage Systems, Inc., Milpitas, CA

2:30 p.m. #18
The Material Exchange File Format (MXF), *Jim Wilkinson*, Sony BPE, Basingstoke, Hants, U.K.

3:00 p.m. #19
Archival Video Status, *Jim Wheeler*, Tape Archival & Restoration Services, Oceano, CA

3:30 p.m. #20
Mastering and Archiving Uncompressed Digital Video Test Materials, *Charles Fenimore*, NIST, Gaithersburg, MD; and *Arthur Cosgrove*, Eastman Kodak Co., Rochester, NY

4:00 p.m. #21
A Very High Bit Rate Image Data Recorder, *David J. Bancroft*, Philips Broadcast, Film Imaging, Reading, England, U.K.

4:30 p.m. #22
Digital Video Recorders: All-in-One Content Recording, Storage, Playback, and Management System, *Bentley Nelson*, Quantum Corp., Milpitas, CA

6:00 - 8:00 p.m.
Welcome Reception

Friday Morning, October 20

The Digital Station—Content Acquisition and Broadcast

Co-Chair: *Ira Goldstone*, Tribune Broadcasting
Co-Chair: *Russ Myerson*, WB100+

8:00 a.m. #23
Considerations for Moving to a Video Server-Based Facility, *Roger Crooks*, Grass Valley Group, Beaverton, OR

8:30 a.m. #24
The Present and Future of Channel Branding, *Richard Brice*, Oxtel, Inc., Morristown, NJ

9:00 a.m. #25
DTV in a Box, *Jerry Berger* and *Terry Smith*, AgileVision, Princeton, NJ

9:30 a.m. #26
Content Management and Metadata for a Large Multimedia Company, *Al Fong*, Tribune Broadcasting, Los Angeles, CA

10:00 a.m. #27
A Model of ATSC Transmission of Synchronized Broadcast and Internet Content, *Fred Kokaska*, Logic Innovations, San Diego, CA; and *Rick Tingstrom*, Spyglass, Inc., Los Gatos, CA

10:30 a.m.
Panel Discussion

Friday Morning, October 20

Film Format and Acquisition Technologies—What's New and Improved?

Co-Chair: *Alan Masson*, Kodak
Co-Chair: *Nolan Murdock*, Panavision

8:00 a.m. #28
A Multiformat HDTV Camera Head, *Peter G. M. Centen*, *Ton Moelands*, *Jan van Rooy*, and *Mike Stekelenburg*, Philips Digital Video Systems, Breda, The Netherlands

8:30 a.m. #29
Development of a Motion Picture Negative Film for Increased Information Transfer Data and Enlargement of Image Expression Region, *H. Murakami*, *K. Kawai*, *K. Makino*, *Y. Minaki*, and *S. Yamaryo*, Fuji Photo Film Co., Ltd., Kanagawa, Japan

9:00 a.m. #30
Kodak Ektachrome 100D Color Reversal Film, *David Long*, Eastman Kodak Co., Rochester, NY

9:30 a.m. #31
Images and Formats, *David J. Bancroft*, Philips Broadcast, Film Imaging, Reading, England, U.K.

10:00 a.m. #32
An Alternative to Chlorinated Solvents for Deep Film Cleaning in Telecine Suites, Archives, and Film Laboratories, *Jonathan Banks*, Lipsner-Smith, Lincolnwood, IL

10:30 a.m. #33
Scope 1.5X—Squeezing Even Higher Quality from 35mm Prints, *John P. Pytlak*, Eastman Kodak Co., Rochester, NY

11:00 a.m. #34
Assessing the Quality of Motion Picture Cinema Systems, *Christopher L. DuMont*, *Roger A. Morton*, and *Kenneth J. Repich*, Eastman Kodak Co., Rochester, NY

12:00 - 1:45 p.m.
Industry Luncheon
Speaker: *Jack Valenti*, Chairman and CEO, Motion Picture Association of America

Friday Afternoon, October 20

Format Transitions and Conversions: Techniques and Technologies

Co-Chair: *Alan Hart*, Modern VideoFilm
Co-Chair: *Tad Marburg*, Warner Bros.

2:00 p.m. #35
Removal of Spatial and Temporal Alias Artifacts in Format Conversion and Display, *William Glenn*, Florida Atlantic University, Boca Raton, FL



WARNER BROS.

TECHNICAL OPERATIONS

2:30 p.m. #36
Format Conversion Design Challenges for Realtime Software Implementations, *Rick Post*, AgileVision, Princeton, NJ; and *Michael Isnardi*, Sarnoff Corp., Princeton, NJ

3:00 p.m. #37
Trials and Tribulations of Universal Format Conversion, *Jeff Harris*, Panasonic AVC American Labs, Inc., Westampton, NJ

3:30 p.m. #38
Film Sequence Detection and Removal in DTV Format and Standards Conversion, *Scott Ackerman*, TeraNex, Inc., Fair Lawn, NJ

4:00 p.m. #39
Experiments in Multipipe HD—Beyond HDTV, *M. Poimboeuf*, *T. S. Stock*, and *Eric Bloch*, Silicon Graphics, SGI, Mountain View, CA

4:30 p.m. #40
Management of the Aspect Ratio Transition, *Peter Symes*, Grass Valley Group, Nevada City, CA

Friday Afternoon, October 20

Visual Effects and Animation: New Tools and Techniques

(In conjunction with the Visual Effects Society)

Co-Chair: *Ray Feeney*, RFX
Co-Chair: *Jonathan Erland*, Composite Components Co.

2:00 p.m. #41
Cine-Photogrammetry: An Overview of Tracking, Motion Capture, and Spatial Analysis from the Moving Image, *Jonathan Erland*, Composite Components Co., Los Angeles, CA

2:30 p.m. #42
A Monocular Approach to Z Axis Data Acquisition, *Jonathan Erland*, Composite Components Co., Los Angeles, CA

3:00 p.m. #43
Z Axis Data Acquisition of the Planets, *Eric De Jong*, JPL/NASA

3:30 p.m. #44
Achieving Reality Through Image-Based Modeling, Rendering, and Lighting, *Paul Debevec*, USC Institute for Creative Technologies, Marina del Rey, CA

4:00 p.m. #45
Track: Z Axis Data Acquisition from Motion Picture Images, *Douglas Roble*, Digital Domain, Venice, CA

4:30 p.m. #46
From Depth Maps to Stereo, *Phil Harmon*, Dynamic Digital Depth Research, Perth, W. Australia

5:00 p.m. #47
Blue-Screen Matting Using Curved Separating Surfaces, *Yasushi Mishima*, Imagica Corp., Tokyo, Japan

7:00 - 9:00 p.m.
Honors and Awards Reception

Saturday Morning, October 21

Audio Production and Post-Production: The Multichannel Process and Its Challenges

Co-Chair: *Alan Falk*, Chace Productions
Co-Chair: *Chris Jenkins*, Todd AO

8:00 a.m. #48
Diamond Audio-Explained, *Neil Karsh*, Leitch, Inc., Holmdel, NJ

8:30 a.m. #49
Seamless Audio Splicing for ISO/IEC 13818 Transport Streams, *Seyfullah Halit Oguz* and *Sorin Faibish*, Media Servers Group, EMC Corp., Hopkinton, MA

9:00 a.m. #50
Is Your Plant Infrastructure Up to Handling Multichannel Digital Audio, *David L. Bytheway*, Salt Lake City, UT

9:30 a.m. #51
Audio in Broadcast, Satellite, and Cable Television: Issues and Solutions for the Digital Transition via Audio Metadata, *Tom du Breuil*, Motorola Broadband Communications Sector, Horsham, PA; and *Jeffrey Riedmiller*, Dolby Laboratories, Inc., San Francisco, CA

Saturday Morning, October 21

Dailies and Content Review Technologies

Co-Chair: *Chuck Garsha*, Media Systems, Inc.
Co-Chair: *Tom Scott*, EDNet

8:00 a.m. #52
Large-screen Review and Preview Techniques, *Steve Cohen*, Cohen Communications, Culver City, CA

8:30 a.m. #53
Digital Dailies from Canada, *Doug Mielke*, DES, Northridge, CA

9:00 a.m. #54
Review of Dailies: Streaming Video on the LAN, *Charlie Mitchell* and *Norm Haddamen*, Three Point Digital, Burbank, CA

9:30 a.m. #55
Electronic Review and Dailies—A Post House's View, *Leon Silverman*, Laser Pacific, Hollywood, CA



[Powerful
multichannel
strategies inside.]

Inside every SeaChange Broadcast MediaCluster™ server is patented architecture and innovative software that specifically supports the new multichannel business models for broadcast. We'll help you take control of your growing television enterprise and streamline your operation.

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10:00 a.m. #56
Dailies in Hours—Streaming the Intercontinental Creative Process, *Jim Toten*, Tribune Entertainment Co., Hollywood, CA

10:30 a.m.
Panel Discussion
(Following the presentations, Co-Chairs *Chuck Garsha* and *Tom Scott* will lead participants in a panel discussion covering the delivery of dailies, editorial review, preview screenings, and other tasks implemented over LAN, MAN, and WAN connections, and will facilitate questions and answers from the audience.)

Saturday Afternoon, October 21

Metadata Applications and Options for Production and Transmission

Co-Chair: *Merrill Weiss*, Merrill Weiss Group
Co-Chair: *Oliver Morgan*, Avid Technology

2:00 p.m. #57
Metadata Systemization Across the Production/Post-Production Boundary, *Brad Gilmer*, AAF Association, Atlanta, GA, and *Hans Hoffmann*, European Broadcasting Union, Geneva, Switzerland

2:30 p.m. #58
Enhanced PSIP for Enhanced Electronic Program Guides, *Gomer Thomas*, Triveni Digital, Inc., Princeton Junction, NJ

3:00 p.m. #59
Real-World Implementations and Benefits of the SMPTE KLV Metadata Protocol, *Stephen W. Long*, National Imagery and Mapping Agency, Reston, VA; and *Michael F. Vetter*, SAIC, Burlington, MA

3:30 p.m. #60
Intelligent Television Through the Use of Metadata, *David Richardson*, NDS, Jerusalem, Israel

4:00 p.m. #61
Metadata and Tagging: Standards, Systems, and Solutions, *Mark Grossman*, Geocast, Menlo Park, CA

4:30 p.m. #62
A Platform for Constructing Distributed Asset Management Systems, *S. Bilow*, *S. Liebert*, *A. Murching*, and *D. Slack*, Grass Valley Group, Inc., Beaverton, OR

Saturday Afternoon, October 21

24P Production and Post-Production

Co-Chair: *Leon Silverman*, Laser Pacific
Co-Chair: *Marker Karahadian*, Plus 8 Video

2:00 p.m. #63
Tools for 1080p/24 Film-to-Tape Transfer, *David Strachan*, Evertz Microsystems Ltd., Burlington, Ont., Canada

2:30 p.m. #64
Working with 24P in a 60-Field Environment, *Michael Phillips*, Avid Technology, Tewksbury, MA

3:00 p.m. #65
24-Frame and Multiple Frame Rate Post Systems and Equipment Design Considerations, *David Wiswell*, Panasonic Broadcast & Television Systems Co., Los Angeles, CA

3:30 p.m. #66
High Performance Electro-optic Camera Prototype, *S. A. Stough* and *William A. Hill*, Lockheed Martin, San Jose, CA

4:00 p.m. #67
Acquisition in 24P and 35mm Film: A Technical Enquiry, *Laurence J. Thorpe*, Sony Electronics, San Jose, CA

4:30 p.m. #68
A New Platform for Co-operative Content Assembly, *Bob Pank*, Quantel, Newbury, Berkshire, U.K.



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SMPTE to Honor 12 New Fellows at Annual Luncheon

A Fellow of the Society is one who has, by proficiency and contributions, attained an outstanding rank among engineers or executives in the motion picture, television, or related industries.

Twelve SMPTE members will be honored as Fellows at the annual Fellows Luncheon on October 19, 2000 at the Pasadena Center, Pasadena, CA during the 142nd SMPTE Technical Conference and Exhibition.

Craig Cuttner

Craig Cuttner, vice-president of technology, Home Box Office. Cuttner is responsible for all projects in the areas of video and audio distribution systems, and distribution related computer and communications systems. He joined HBO in 1982 as a system engineer and since then has worked on all aspects of manufacturing and roll-out of the DigiCipher digital video compression system, and the VideoCipher scrambling system.

Cuttner serves on several industry committees and has been active in HDTV since the late '80s, contributing to many aspects of HDTV industry-wide.

Angelo D'Alessio

Angelo D'Alessio, general manager, SHS Systems. D'Alessio has been involved in television engineering and sales from his early days at Philips, helping develop their color system. He is also very active in HDTV electronic production and stereo television programs for the medical field in Europe. He was involved in the advancement of television in southern Europe and the advent of HDTV in this area, and was project coordinator for the introduction of color television in Italy and the technical/production of HDTV in southern Europe. D'Alessio was the driving force for the introduction of the Italian SMPTE Section. He has served as an International Governor and is currently the Director of International Sections of SMPTE. He has been honored by the Imagine Electronic, HDTV Vision, the Venice Film Festival, and the Sorrento Film and TV Festival.

Alain Enon

Alain Enon, technical services manager, Europe, Eastman Kodak Industry (Entertainment Imaging). Enon was involved in the development of silver recovery techniques and water recycling techniques for the motion picture industry. He demonstrated from inception to commercialization the concept of the porous percolated pulsated electrode, and demonstrated the benefits of applying the nanofiltration technique to the recycling of the wash waters of the ECN and ECP processes, which is referred to as the "Toulouse Cell." Enon has helped in the testing and commercialization of numerous products over a decade, including all of the current Kodak EXR and Vision line of camera negative films, Eastman color intermediate film, Kodak black-and-white products, and more recently Kodak Vision color print films.

The "Toulouse Cell" was given a scientific and technical award from the Academy of Motion Picture Arts and

Sciences, and Enon's numerous recommendations have been and/or are still being used in laboratories.

Hans Hoffman

Hans Hoffman, senior engineer, technical department, EBU. Hoffman joined the IRT in 1993 and started his work in the field of R&D. Since then, he has been researching serial digital interface and was also responsible for the development of a jitter measurement device for SDI signals. With the increasing impact of bit rate reduction and new computer and IT-based technologies on television production, his main efforts moved into these areas. He is currently investigating packetized interfaces (SDTI, Fibre Channel, ATM, etc.) and transfer protocols in order to find methods for transferring bit rate signals in a studio environment.

Hoffman serves on the SMPTE ITU-R Task Group 11B and was subgroup chairman (Networks and Transfer Protocols) of the joint EBU/SMPTE Task Force for Harmonized Standards for the Exchange of Television Programs as Bit Streams. Since 1998 he has chaired the new SMPTE committee on File Management and Networks.

Robert Kisor

Robert Kisor is vice-president, engineering and technical services at Paramount Pictures. In his ten years at Paramount he has been responsible for planning, designing, and maintaining video production, post-production, and distribution facilities at the studio. Prior to joining Paramount, Kisor spent 17 years in the engineering and development department at CBS.

A member of SMPTE since 1975, Kisor has served as Manager, Section Chair, and Governor of the Hollywood Section. He has been Editorial Vice-President of SMPTE for the past four years.

Bruce F. Miller

Bruce F. Miller, director of engineering, WRC-TV, NBC Subsidiary, Inc. Miller led the industry through the early implementation of electronic newsgathering at CBS and ABC, initially in New York and later in Washington, D.C. As an engineering manager in commercial television networks he used his engineering and management skills to connect technicians with new technologies through training, coordination, and education.

Miller joined the Advanced Television Test Center to successfully manage the day-to-day operations of this multi-industry-sponsored facility during the difficult days of developing test procedures and coordinated the multiple proponents of analog and digital advanced television systems.



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Marconi

New Fellows



Craig Cuttner



Angelo D'Alessio



Robert B. Kisor



Bruce F. Miller



Charles A. Pantuso



Udai P. Singh



Craig C. Todd



David A. Baylor



Lawrence R. Kaplan



Stephen Pumble

When the HDTV Model Station was formed by the broadcast industry to provide a test-bed for and conduct field tests of various manufacturers digital television equipment, Miller was asked to head the organization because of his wide experience with digital television testing and his work with other broadcast organizations. The Model Station, experimental digital broadcast station WHD-TV, which was a two-year project, provided an open forum where member stations and equipment manufacturers worked hand-in-hand to solve emerging technical problems related to the conversion to digital broadcast television.

Miller has been the Washington, D.C. SMPTE Section Chair, Section Manager, and is currently Eastern Region Governor.

Charles A. Pantuso

Charles A. Pantuso, video and broadcast consultant, DTVIR.com. Pantuso is respected worldwide for his vast knowledge of and experience with high-definition video and broadcast systems. He is a pioneer and leader in the use of high-definition and digital video for both sports and broadcast television.

Pantuso has received three high-definition-video-related Emmy Awards for his exceptional achievements: a 1994 Sports Emmy for the '94 Olympic Games, a 1985 Sports Emmy for Outstanding Individual Achievement for ABC's '84 Olympics, and partial recipient of a 1991 Primetime Emmy for his design work with Graham-Patten Systems.

Pantuso's widely acknowledged expertise and pioneering work with high-definition video is particularly important during the current transition to digital video. He has personally designed multiple HD production trucks and facilities and has consulted on numerous other HD efforts.

Pantuso has twice been president of SMPTE's Dallas-Ft. Worth chapter.

Udai P. Singh

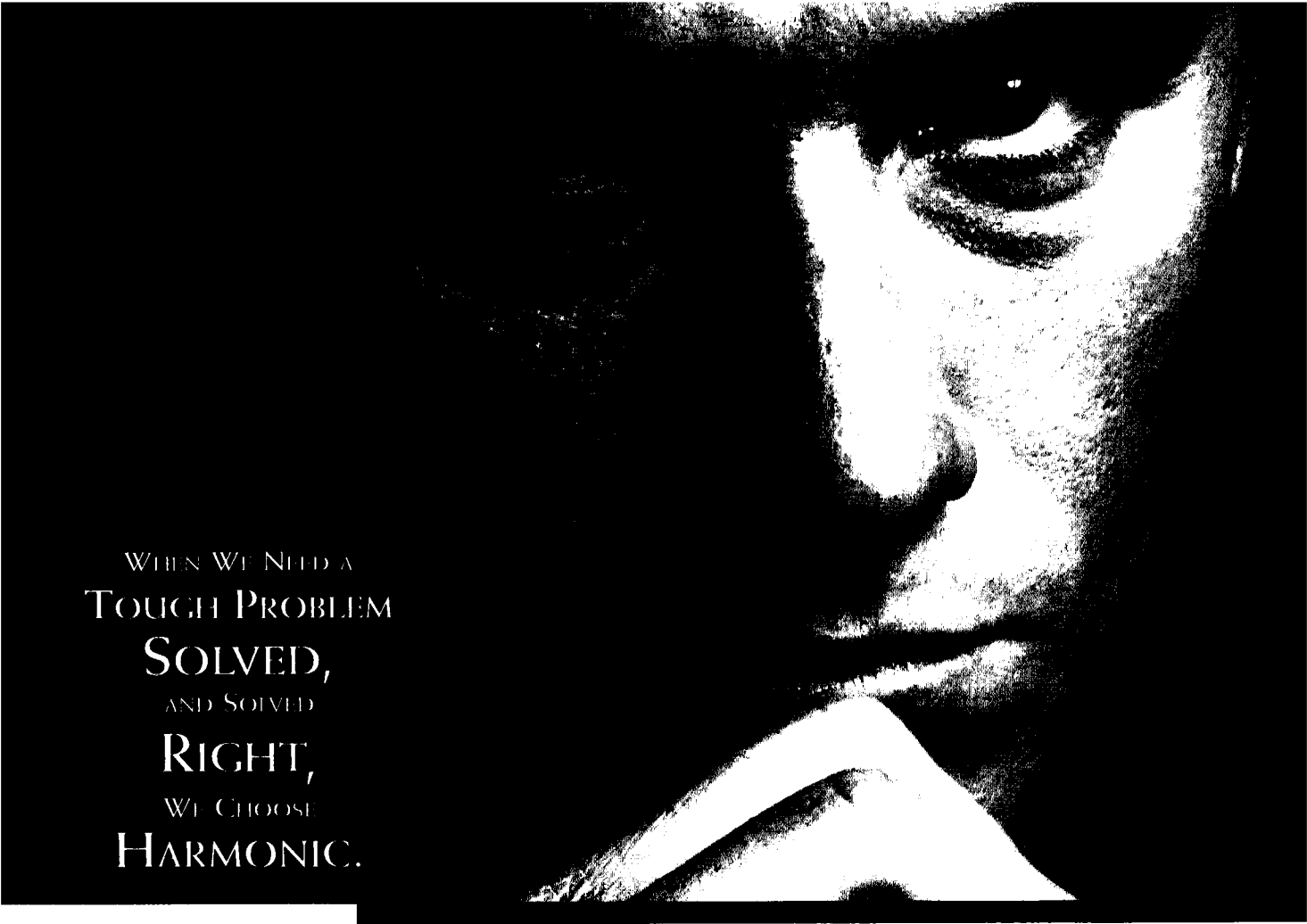
Udai P. Singh, senior vice-president, worldwide engineering, R&D and technical operations, Technicolor. Singh has developed many new ECP products, such as EXR, and has rebuilt products by inventing and applying chloride technology to the motion picture system. He was responsible for inventing and commercializing film for a dye transfer process for Technicolor, and the research and commercialization of non-remjet ester support for ECP products. He also invented Kodak's first 500 speed tungsten balanced Eastman color negative film and has researched and developed all mordants for Kodak instant products.

Singh has been awarded a Technical Oscar and an Emmy for EXR Films and has 35 technical publications and patents in the field of photographic applications.

Craig C. Todd

Craig C. Todd, senior member of technical staff, Dolby Laboratories, Inc. Todd optimized the application of matrix surround sound technology to the Dolby Stereo optical film sound format. The result of this work was the precursor to the Pro Logic decoding circuit. He also developed a system to identify Dolby FM-encoded broadcasts, replacement audio electronics for 1-in. C-format VTRs incorporating Dolby A-type noise reduction, and a digital coding system proposed for the consumer 8mm video format. This work has been fundamental to today's entire film sound industry.

Todd has authored or co-authored 28 technical papers and holds 23 patents.



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David A. Baylor

David A. Baylor, executive vice-president, operations, DirecTV. Baylor oversees engineering, technology, and systems development and integration support for DirecTV operations worldwide.

Prior to joining DirecTV, Baylor was vice-president, broadcast operations at NBC-TV for six years, where he led a staff of 300 and was responsible for technical operations, centralized manpower, systems engineering, and maintenance for the television network. His accomplishments include the enhancement and operation of network television's first and only Ku-band satellite distribution system, and the introduction of robotic videotape operations and digital videotape to NBC network operations.

Baylor has served as president of the Washington Executive Broadcast Engineers Association and was featured in *Broadcasting Magazine's* "Fifth Estater" executive profiles in December 1991. He is the 1997 recipient of the Black Engineer of the Year Award for Career Achievement.

Lawrence R. Kaplan

Lawrence R. Kaplan, president and CEO, Omneon Video Networks. Under Kaplan's leadership, and that of his management partners, Omneon has created an integrated network and storage platform that enables production and distribution of traditional and new media of any type, from streaming video through high definition.

During his tenure at Tektronix and Sony, Kaplan fostered the development of key products, technologies, and systems that have furthered television, workstation, and display systems. He was responsible for launching development programs leading to plasma display technology, test and measurement systems, and equipment.

While at Sony, Kaplan was responsible for the operation of the System Integration and Advanced Development Centers in San Jose. He also sponsored and initiated development of several HDTV projects culminating in HD installations at the NBC Burbank Studios, Madison Square Garden, and remote broadcast vehicles for Northwest Mobile Television.

Stephen Pumple

Stephen Pumple, founder, chairman and CEO, Azcar Technologies Inc. and IMMAD ECVS. Under his leadership the company has become a leading systems integrator in broadcasting and has implemented facilities in Canada, the U.S., Singapore, the Middle East, Europe, and Japan. Included are major facilities for three Olympic events: Calgary, Atlanta, and Nagano. Among the largest of his several technical accomplishments, Pumple designed the initial and subsequent baseband and video facilities for the large DBS operator Echostar. These are particularly recognized for their effective and cost efficient combination of leading edge technologies.

Pumple has been active in SMPTE at both the local and national levels.

SMPTE Announces Eleven To Be Honored at Reception

SMPTE has announced award winners who will be honored for outstanding achievement in the motion imaging industry. The annual Honors and Awards Reception will be held on Friday, October 20, 2000 during the 142nd SMPTE Technical Conference and Exhibition at the Pasadena Center, Pasadena, CA.

Honorary Membership in the Society is granted to an individual who has performed eminent service in the advancement of engineering in motion pictures, television, or in the allied arts and sciences, and whose basic contributions represent a substantial forward step of broad usefulness to these studies. This is the Society's highest award and greatest distinction and includes eventual inscription on the Honor Roll of the Society.

This year's award will be presented to **John L. E. Baldwin**, for his contributions that have spanned a period of 50 years in the fields of standards conversion, videotape technology, and the

application of digital technology to television.

Baldwin is acknowledged worldwide as a pioneer in the development of the first successful nonoptical analog conversion between any pairs of 405, 525, 625, and 819-line television standards. In 1972, an experimental digital converter was developed, demonstrated, and used operationally, converting from 525 to 625-lines. It was later made bidirectional. The basic algorithms that he developed over 25 years ago are still used in today's systems.

Baldwin has made significant original contributions to the development of videotape recording data over the past 40 years. He has been actively involved in the work of SMPTE, EBU, ITU, RTS, and Eureka engineering committees and has written extensively on the subjects of video recording, digital video, and standards conversion.

The Eastman Kodak Gold Medal Award recognizes outstanding contributions which lead to new or unique

educational programs utilizing motion pictures, television, high speed and instrumentation photography or other photography sciences. The award recognizes developments in equipment, systems or instructional applications which result in advancing the educational process at any or all levels.

The 2000 Eastman Kodak Gold Medal Award is granted to **Geoff Boyle** for his contributions to communication and education among cinematographers, through the Cinematography Mailing List (cml), which he founded. Boyle started this e-mail reflector nearly five years ago as a professional alternative to gossipy chat lists and other public forums on the internet.

In the past four years, the group has grown from a handful of members to over 1,300 from all parts of the world. The list has gained significant credibility as a result of Boyle's firm, but consistent management as a noncommercial and thoroughly informative resource for experienced professionals

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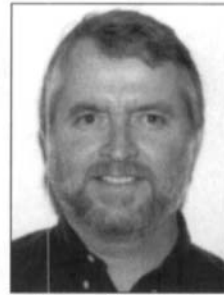
John L. E. Baldwin



Mitchell J. Bogdanowicz



Arjun Ramamurthy



Lemuel L. Davis



Franz Herbert



D. Peter Owen



Mike Pietrowski



Jay H. Ballard



Leonard W. Eden



Geoff Boyle

and beginners alike. He has added significant value to the list by providing and regularly updating a website with cross-indexed references to all topics discussed.

The Technicolor/Herbert T. Kalmus Gold Medal Award honors the recipient by recognizing outstanding contributions in the development of color films, processing, techniques or equipment useful in making color motion pictures for theater or television use.

The 2000 Technicolor/Herbert T. Kalmus Gold Medal Award is presented to **Dr. Mitchell J. Bogdanowicz** for his substantial contributions to the motion picture industry. Bogdanowicz has developed photographic systems modeling techniques that have resulted in the design of new color films; the ability to evaluate the spectral characteristics of printers and telecine equipment; and the design of image modification filters. He is regarded as an expert in color reproduction analysis and photographic systems modeling. He has numerous patents covering areas such as film systems, filtration modification, light sources, and film design.

During the past five years Bogdanowicz has worked with many motion picture laboratories throughout

the world, to measure the spectral characteristics of their film printers, and thus predict and help correct mismatches induced by lamphouse and dichroic filters. He is also the inventor of the Kodak PreView System for previsualization of a motion film image via a digital still camera using tone-scale computer software.

The SMPTE Journal Award is presented to the author(s) of the most outstanding paper originally published in the Journal of the Society during the preceding calendar year. Papers published in the Journal are eligible only if any previous publication was by the Society.

The recipients for the 2000 Journal Award are **Arjun Ramamurthy**, **Lemuel L. Davis**, and **Franz Herbert** for their paper "Achieving Color Match Between Scanner, Monitor, and Film: A Color Management Implementation for Feature Animation," June 1999.

Arjun Ramamurthy developed Machine-Vision for Paint Inspection and 3-D Gauging Systems while working with EOIS Corp. from 1989 to 1993. During his tenure at PhotoResearch, Inc., from 1993 to 1996, his interests were in display imaging, color instrumentation, reproduction, and color imaging.

Ramamurthy is currently manager of software engineering at Warner Bros. Feature Animation, with development interests in color management systems, imaging and color algorithms, and workflow. He is a co-author of IT7.328-1995, and the ANSI standard on Image Evaluation for Projection Systems. Ramamurthy has also published several papers on Machine Vision and Image Processing.

Lemuel L. Davis joined Hughes Aircraft Co. in 1978, where he developed microprocessor-based control systems for realtime applications and automated testing systems. In 1981, he joined the Walt Disney Co., developing systems used for animation production and in 1985, he proposed the Computerized Animation Production System (CAPS) and was technical lead for that project until 1990.

Davis is currently the chief scientist at Warner Bros. Feature Animation. His interests include color management systems, computer-assisted animation, imaging algorithms, and production, management systems. He was the recipient of a technical Academy Award given for CAPS in 1992.

Franz Herbert has developed state-of-the-art software solutions for computer imaging over the past 15 years. His achievements include scanning,



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In August 1994, Herbert founded Color Solutions. The company's main objective is to bring color management tools to the end user. In September 1994, Color Solutions introduced ColorBlind, the first software application that allows end users to profile all their input and output devices. In December 1997, Color Solutions was acquired by Imaging Technologies Corp., a company focusing on digital imaging products. Herbert now heads the research and development group in charge of color technology.

The Presidential Proclamation is awarded to those individuals of established and outstanding status and reputation in the motion picture and television industry worldwide.

This year, the award is given to **Klaus Landsberg (posthumously)** and **D. Peter Owen**.

Klaus Landsberg was involved in the development of television technology from the 1930s until his death in 1956. As general manager of W6XYZ, later KTLA, from 1947 to 1956, he created, produced, and directed over 3,000 television programs, many being the first of their type. Both KTLA and Landsberg received numerous awards for his creative efforts.

Landsberg was instrumental in the advancement of ENG technology. He later focused on advancing technology used to permit live, remote coverage of events, and foster television's future as a newsgathering medium. As early as 1947, Landsberg produced 10 hours-a-day of live broadcasting. In 1951, he produced the first telecast of an A-bomb blast, requiring the creation of a single 140-mile radio link, considered impossible at the time. Landsberg became a SMPTE Fellow in 1952.

D. Peter Owen began his career at EMI as a graduate apprentice working on military projects, but then moved into the television group. After joining ITA Research Laboratories, he worked on early digital television technology, including the DICE standards converter.

Owen joined Quantel in 1973, where he worked on the company's first product, a digital time base corrector. Since then, he has been heavily involved in Quantel's groundbreaking developments across digital effects, graphics, editing, and post production. He also

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led the company's transition into digital film, with the Domino digital film opticals system.

Owen has been involved in many standards groups and representative bodies and has been an active and influential member of the industry's key organizations around the world. He retired recently, but still works as a consultant for Quantel.

The Citation for Outstanding Service to the Society recognizes individuals for dedicated service to the Society over a sustained period of time. Particular emphasis is placed on service performed at the Section level, including but not limited to, services performed at Section meetings, special Section meetings, and national conferences.

This year's Citation for Outstanding Service to the Society is awarded to **Mike Pietrowski, Jay H. Ballard, Dixie L. Parman, and Leonard W. Eden.**

Mike Pietrowski has been a tireless promoter of Student Chapters within the Society. He founded the first high-school level Student Chapter in Mashpee, MA, and has worked very hard in raising the awareness of State School Administrators to the potential of the Society as a reference for the educational community, concerning job opportunities in the motion imaging industry.

Pietrowski is presently involved in the Student Chapter at Stonehill College and has put a lot of time and energy into supporting and encouraging students to become active in SMPTE by attending National Conferences and local meetings. He is director of media/videography at Stonehill College.

Jay H. Ballard joined the Society in 1974. He has been an outstanding supporter of the New York Section and has held office as Section Manager, Section Chair, and Regional Governor. Ballard has played a key role in providing facilities and resources for many local activities. As a member of the Archival Papers and Historical Committee, his contributions include research on numerous historical equipment collections, finding additional collections, and recommending motion picture and television "pioneers" to be contacted and interviewed by the committee for archival purposes. Ballard is currently manager, DTV engineering

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Dixie L. Parman joined SMPTE in 1967 and has been a tireless worker ever since. Known as Miss Dixie in the Nashville Section, she has held the office of Manager and Secretary-Treasurer. Parman's dedication to the Section's continued success and sustained activity has been exemplary. She has been behind the well-established annual tradition of the December meeting held at UMC, where she has contributed more than just facilities and support.

Leonard W. Eden has been an outstanding member of the Detroit Section. He has contributed by serving as Manager, Secretary-Treasurer, and Chairman many times in the past 25 years. Nationally, he also served as Program Chairman for the 10th Winter Television Conference in 1976, as well as General Chairman for the 25th Annual Conference in 1991. Eden has also arranged monthly meetings and participated on many nominating and special committees of the Detroit Section. He works as a consultant for John F.X. Browne & Associates.

142nd SMPTE Technical Conference and Exhibition

October 18-21, 2000

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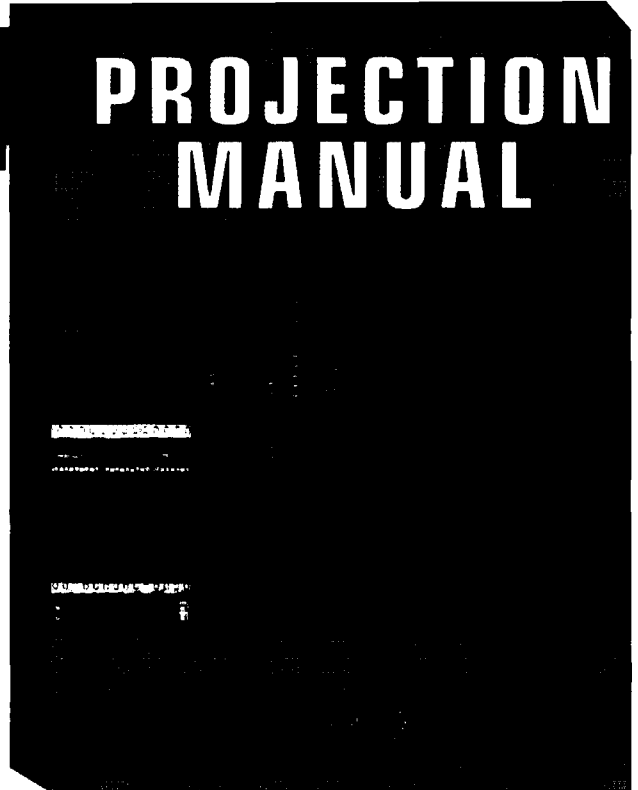
Exhibitor List by Booth Number

Booth(s)	Exhibitor	Booth(s)	Exhibitor
100 102	Wavetek Wandel Goltermann	235	Philips Broadcast
101 103	Video Products Group, Inc.	242 243	BBC
104	Evertz Microsystems Ltd.	244	Avica Technology Corporation
105	William Capon Enterprises	300 302	TANDBERG Television Inc.
107	Logic Innovations	301 303	Miranda Technologies, Inc.
108 110	Dolby Laboratories, Inc.	304 306	Tadiran Scopus, Inc.
111	Telestream	305	WolfVision, Inc.
113	Wohler Technologies	307	RGB Spectrum
116 118 120	Snell & Wilcox	311 313	Quantel
117	LSI Logic Storage Systems, Inc.	316	Quartz Electronics Ltd.
122 124	Digital Audio & Video	317	Thomson Broadcast, Inc.
123	TeraNex	318	Audio Accessories, Inc.
125	Force, Inc.	323	Odetics
126	CommScope Inc.	325	Chyron Corp.
127 129	Columbine JDS	327	Mohawk/CDT
131	Newpoint Technologies, Inc.	329	DNF Controls
132	SyntheSys Research, Inc.	331	Lipsner-Smith Company
133	Rohde & Schwarz, Inc.	333 335	JVC Professional Products Co.
134	Astro Systems, Inc.	337	Leitch, Inc.
137	Panasonic Broadcast	400	Microwave Radio Communications
138	Tiernan Communications	402 404 408	Innovation TK Ltd.
140	Seamount Technology	407	Zack Electronics
142 143	Ross Video Inc.	410	Vela
200 202	Broadcast Store (BCS)	411	Forefront Graphics Corporation
201	Vidbid.net c/o Ace Video	412	Omneon Video Networks
203	SeaChange International	415	K-5600, Inc.
204	Bittree, Inc.	422	Alcatel
205 207	PESA Switching Systems	424 426 428	Grass Valley Group
206	DVS Digital Video, Inc.	425	Belden Electronics Division
210 212	Barco Communication Systems	427	Hotronic Inc.
211	Axon Digital Design B.V.	429	Oxtel, Inc.
217 219	Tektronix, Inc.	430	OmniBus Systems Inc.
222	GEPCO International, Inc.	431	AJA Video
223	ADC	432	IFsec
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Contact: Vicki Popielinski

Booth 329

A leading provider of broadcast hardware, software, and services spanning television and the internet, Chyron has introduced high-performance solutions for the entire broadcast operation including: the Duet video graphics platform; the Chyron Aprisa 250 still and clipstore; the multiformat Freeway routing switcher; and Clari.net, streaming media encoder.

DNF Controls is a leading manufacturer and designer of field proven, award winning control solutions for the television broadcast and post production industries.

Columbine JDS

1999 Broadway
Suite 4000

Booths 127, 129**Dolby Laboratories, Inc.**

100 Potrero Avenue
San Francisco, CA 94103
USA

Tel: 415-558-0200
Fax: 415-645-4000
Email: info@dolby.com
Web: www.dolby.com
Contact: Tom Daily

Booths 108, 110

Dolby Laboratories is the developer of signal processing systems for applications used in motion picture sound, consumer entertainment products and media, broadcasting, and music recording.

DVS Digital Video, Inc.

Booth 206

1756 Flower Street
Glendale, CA 91201
USA

Tel: 818-241-8680
Fax: 818-241-8684
Email: info@digitalvideosystems.com
Web: www.digitalvideosystems.com
Contact: Peter Spoer

Evertz Microsystems Ltd.

Booth 104

3465 Mainway Drive
Burlington, Ontario L7M 1A9
Canada

Tel: 905-335-3700
Fax: 905-335-3573
Email: david@evertz.com
Web: www.evertz.com
Contact: David Strachan

Evertz makes film transfer systems, time code equipment, logo inserters, D to A converters, audio embedders, fiber optics, and closed captioning for 601 and HDTV.

Force, Inc.

Booth 125

825 Park Street
Christiansburg, VA 24073
USA

Tel: 800-732-5252
Fax: 540-381-0392
Email: markting@usit.net
Web: www.forceinc.com
Contact: Rod Ballard

Forefront Graphics Corporation

Booth 411

125 Ashwarren Road
Toronto, Ontario M3J 3K7
Canada

Tel: 800-667-1089 / 416-636-4444
Fax: 416-636-4454
Email: rein@forefront.com
Web: www.forefront.com
Contact: Rein Taul

Forefront Graphics will be exhibiting digital disk recorder, video server, Fibre Channel Storage Area Networking and storage solutions from Drastic Technologies, Eurologic, and Forefront D:V:P.

GEPSCO International, Inc.

Booth 222

1770 Birchwood Avenue
Des Plaines, IL 60018
USA

Tel: 847-795-9555
Fax: 847-795-8770

Email: gepco@gepco.com
Web: www.gepco.com
Contact: Greg Hansen

Gepco International, Inc., is a manufacturer of audio cable, video cable, audio and video cable assemblies, connectors, breakout boxes, panels, and other specialty cable products.

Grass Valley Group

Booths 424, 426, 428

400 Providence Mine Road
Nevada City, CA 95959
USA

Tel: 530-478-3137
Fax: 530-478-4020
Email: raymond.baldock@grassvalleygroup.com
Web: www.grassvalleygroup.com
Contact: Ray Baldock

Hotronic Inc.

Booth 427

1875 So. Winchester Boulevard
Campbell, CA 95008
USA

Tel: 408-378-3883
Fax: 408-378-3888
Email: sales@hotronics.com
Web: www.hotronics.com
Contact: Linda Chang

Hotronic manufactures Broadcast Digital and Analog video/audio products including TBC, Frame Synchronizer, SDI/Analog converter, test signal generator, 8x2 asynchronized router, proc amp, video/audio delay, SDI router, and 10 bit frame synchronizer with audio delay etc.

IFsec

Booth 432

260 Madison Avenue
Third Floor
New York, NY 10016
USA

Tel: 212-481-4100
Fax: 212-685-3405
Email: juliusa@ifsec.com
Web: www.ifsec.com
Contact: Julius Adams

IFsec's Brand Protection Assessment, incorporated with security expertise and industry-based research, helps media and entertainment companies identify threats and provide solutions in handling content and information in the digital age.

Ikegami Electronics

Booths 442, 443

37 Brook Avenue
Maywood, NJ 07607
USA

Tel: 201-368-9171
Fax: 201-569-1626
Email: bestony@ikegami.com
Web: www.ikegami.com
Contact: Robert J. Estony

For SMPTE 2000, Ikegami Electronics will demonstrate a host of

new cameras and monitors for implementing digital television transmission. Ikegami will exhibit switchable (4:3/16:9) digital processing cameras in NTSC, SDTV/HDTV, and HDTV. A line of new multiscan DTV/HDTV monitors will be shown. Upconverters and downconverters will be demonstrated to help broadcasters in transition to HDTV, and a new digital, portable HDTV switcher will be featured.

Innovation TK Ltd. Booths 402, 404, 408

Scott House
Hagsdell Road
Hertford, Herts SG1 388G
United Kingdom
Tel: 44-1992-553-533
Fax: 44-1992-558-979
Email: kate@innovation-tk.com
Web: www.innovation-tk.com
Contact: Delphi Durrant

JVC Professional Products Co. Booths 333, 335

1700 Valley Road
Wayne, NJ 07470
USA
Tel: 973-315-5000
Fax: 973-315-5030
Contact: Richard Meidenbauer

K-5600, Inc. Booth 415

10434 Burbank Boulevard
North Hollywood, FL 91601
USA
Tel: 818-762-5756
Fax: 818-762-6629
Email: gilles@k5600.com
Contact: Gilles Galerne

Leader Instruments Corp. Booths 230, 232

6484 Commerce Drive
Cypress, CA 90630
USA
Tel: 714-527-9300
Fax: 714-527-7490
Email: fisher@leaderusa.com
Web: www.leaderusa.com
Contact: George Gonos

LF 982 Digital Signal Level Meter measures analog/digital modes 8VSB, OFDM, QAM-256. Satellite L-band QPSK, BPSK & 8PSK "Pick Hit" NAB 2000.

Leitch, Inc. Booth 337

920 Corporate Lane
Chesapeake, VA 23320
USA
Tel: 757-548-2300
Fax: 757-548-0247
Web: www.leitch.com
Contact: Tom Jordan

Lipsner-Smith Company

Booth 331

4700 Chase Avenue
Lincolnwood, IL 60646
USA
Tel: 847-677-3000
Fax: 847-677-3010
Email: sales@lipsner.com
Web: www.lipsner.com
Contact: Tom Tisch

Lipsner-Smith is a premier supplier of motion picture film systems. On display is the Emmy technical achievement award winning CF8200 ultrasonic film cleaning machine, designed to use 3M Novec HFE-8200 environmentally safe fluid. Also new from the company is Advisor, which detects film scratches and other damage down to 10 microns. New BHP printers include the versatile Model 6131R wet/dry modular film printer. Additional products from Lipsner-Smith includes Windense film QC system, and Colormaster digital film analyzer.

Logic Innovations

Booth 107

6205 Lusk Boulevard
San Diego, CA 92121
USA
Tel: 858-455-7200
Fax: 858-455-7273
Email: anorman@logici.com
Web: www.logici.com
Contact: Aimee Norman

LSI Logic Storage Systems, Inc.

Booth 117

1551 McCarthy Boulevard
Milpitas, CA 95035
USA
Tel: 888-METASTOR
Fax: 316-636-8000
Email: info@metastor.com
Web: www.metastor.com
Contact: Joanne Runsvick

LSI Logic develops and delivers modular, open storage systems for SAN and NAS environments. Our scalable MetaStor solutions are designed to meet your storage demands.

Marconi Communications

Booths 342, 343

1000 Fore Drive
Warrendale, PA 15086
USA
Tel: 724-742-7514
Fax: 724-742-7777
Contact: Thomas McDonough

Microwave Radio Communications

Booth 400

101 Billerica Avenue
Building 6
Billerica, MA 01862
USA
Tel: 978-671-5700
Fax: 978-671-5903
Email: kcaulfield@mrcbroadcast.com
Web: www.mrcbroadcast.com
Contact: Kathy Caulfield

Miranda Technologies, Inc.**Booths 301, 303**

2323 Halpern
St. Laurent, Quebec H4S 1S3
Canada
Tel: 514-333-1772
Fax: 514-333-9828
Email: mpinsonn@miranda.com
Web: www.miranda.com
Contact: Michel Proulx

Miranda is a leading provider of digital video and audio interfaces, DTV/HDTV converters, advanced display products, video digital signal processing (VDSP) digital television, and HDTV technologies.

Mohawk / CDT**Booth 327**

9 Mohawk Drive
Leominster, MA 01453
USA
Tel: 978-537-9961
Fax: 978-537-4358
Email: info@mohawk-cdt.com
Web: www.mohawk.cdt.com
Contact: Joyce M. Inzerillo

Newpoint Technologies, Inc.**Booth 131**

13 Red Roof Lane
Salem, NH 03079
USA
Tel: 603-898-1110
Fax: 603-898-1113
Email: dao@newpointtech.com
Web: www.newpointtech.com
Contact: Dan Ostrouch

Newpoint provides software and integrated solutions for management of Satellite Communications (monitor and control), Broadcast Facility automation, and Audio/Video Router management.

Odetics**Booth 323**

1515 South Manchester Avenue
Anaheim, CA 92802
USA
Tel: 714-774-2200
Fax: 714-780-7594
Email: broadcast-sales@odetics.com
Web: www.odetics.com/broadcast/
Contact: Michelle Nguyen

Omneon Video Networks**Booth 412**

965 Stewart Drive
Sunnyvale, CA 94086
USA
Tel: 408-585-5000
Fax: 408-585-5090
Email: sales@omneon.com
Web: www.omneon.com
Contact: Edward P. Hobson

OmniBus Systems Inc.**Booth 430**

202 Providence Mine Road
Suite 207
Nevada City, CA 95959
USA
Tel: 530-470-1700
Fax: 530-470-1718
Email: sales@omnibussystems.com
Web: www.omnibussystems.com
Contact: Richard Zahm

The key to OmniBus is that the strategy from inception was to look at the whole; in contrast, other vendors have focused only on specific applications areas such as transmission, newsrooms or editing. The outcome of this approach is a fully integrated, modular system, which can address all –or any part– of a station's control or automation requirements.

Oxtel, Inc.**Booth 429**

35 Airport Road
Suite 250
Morristown, NJ 07960
USA
Tel: 973-683-0800
Fax: 973-683-1157
Email: casey.linnemeyer@oxtel.com
Web: www.oxtel.com
Contact: K. C. Linnemeyer

Please attend Richard Brice's (of Oxtel plc) presentation on "The Present and Future of Channel Branding," scheduled for Friday, October 20, at 8:30 am.

Panasonic Broadcast**Booth 137**

3330 Cahuenga Boulevard West
Los Angeles, CA 90068
USA
Tel: 323-436-3675
Fax: 323-436-3660
Email: creighton@panasonic.com
Web: www.panasonic.com/broadcast
Contact: Lee Creighton

PESA Switching Systems**Booths 205, 207**

35 Pinelawn Road
Suite 99E
Melville, NY 11747
USA
Tel: 631-845-5020
Fax: 631-845-5023
Email: salesinfo@pesa.com
Web: www.pesa.com
Contact: Melody Crowder

Philips Broadcast**Booth 235**

2255 N. Ontario Street
Suite 150
Burbank, CA 91504
USA

Tel: 818-729-7703
Fax: 818-729-7710
Email: info.broadcast@philips.com
Web: www.broadcast.philips.com
Contact: Michael D' Amore

Quantel **Booths 311, 313**

28 Thorndal Circle
Darien, CT 06820
USA
Tel: 203-656-3100
Fax: 203-656-3459
Email: geoff.parker@quantel.com
Web: www.quantel.com
Contact: Geoff Parker

Quartz Electronics Ltd. **Booth 316**

59 Suttons Business Park
Reading, Berks. RG6 1AZ
United Kingdom
Tel: 44-118-935-0200 (UK) / 888-638-8745 (US)
Fax: 44-118-935-0202 (UK)
Email: sales@quartzuk.com
Web: www.quartzuk.com
Contact: Michael Hall

QMC digital master control switcher designed for use in automated and manual presentation systems. SC-1000 system controller is designed to extend central router management.

RGB Spectrum **Booth 307**

950 Marina Village Parkway
Alameda, CA 94501
USA
Tel: 510-814-7000
Fax: 510-814-7026
Email: tony@rgb.com
Web: www.rgb.com
Contact: Ed Hart

Rohde & Schwarz, Inc. **Booth 133**

4425 Nicole Drive
Lanham, MD 20706
USA
Tel: 301-459-8800 x26
Fax: 301-459-2810
Email: rudy.niznansky@rsd.de
Web: www.rohde-schwarz.com
Contact: Rudy Niznansky

Ross Video Inc. **Booths 142, 143**

PO Box 220
8 John Street
Iroquois, Ontario K0E 1K0
Canada
Tel: 613-652-4886
Fax: 613-652-4425
Email: ken@hq.rossvideo.com
Web: www.rossvideo.com
Contact: Ken Gould

SeaChange International **Booth 203**

124 Acton Street
Maynard, MA 01754
USA
Tel: 978-897-0100
Fax: 978-897-0132
Email: info@schange.com
Web: www.seachangeinternational.com
Contact: Craig Taylor

SeaChange International, Inc., is the world leader in digital video systems for television, creating powerful server and software systems that manage, store, and distribute professional quality digital video.

Seamount Technology **Booth 140**

1305 Bonneville Avenue
Suite A
Snohomish, WA 98290
USA
Tel: 360-568-0890
Fax: 360-568-3152
Email: smtech@gte.net
Web: www.seamounttechnology.com
Contact: Michael Shorb

Seamount Technology is a domestic manufacturer of high end audio, video, and data PATCH BAY SYSTEMS, distribution panels, and cable assemblies tailored to your project.

Snell & Wilcox **Booths 116, 118, 120**

2225 Martin Avenue
Suite I
Santa Clara, CA 95050
USA
Tel: 408-260-1000
Fax: 408-260-2800
Email: adolfo.rodrique@worldnet.att.net
Web: www.snellwilcox.com
Contact: Adolfo Rodriguez

Sony Electronics Inc. **Booth 229**

1 Sony Drive
Park Ridge, NJ 07656-8003
USA
Tel: 201-358-4107
Fax: 201-930-4752
Email: jerry.charles@am.sony.com
Web: www.sony.com/professional
Contact: Jim Brinker

SyntheSys Research, Inc. **Booth 132**

3475-D Edison Way
Menlo Park, CA 94025
USA
Tel: 650-364-1853
Fax: 650-364-5716
Email: info@synthesysresearch.com
Web: www.synthesysresearch.com
Contact: Michelle Brown

Tadiran Scopus, Inc.

12265 World Trade Drive
Suite G
San Diego, CA 92128
USA

Tel: 858-618-1600
Fax: 858-618-1615
Email: info@tadiranscopus.com
Web: www.tadiranscopus.com
Contact: Jay Gedanken

Booths 304, 306**Tandberg Television Inc.**

3501 Jamboree Road
Suite 200
Newport Beach, CA 92660
USA

Tel: 949-725-2548
Fax: 949-725-2545
Email: lhobbs@tandbergtv.com
Web: www.tandbergtv.com
Contact: Lisa J. Hobbs

Booths 300, 302**Tektronix, Inc.**

PO Box 500
Howard Vollum Park
Beaverton, OR 97077
USA

Tel: 503-627-7111
Fax: 503-627-3678
Email: eric.hodges@tektronix.com
Web: www.tektronix.com
Contact: Eric Hodges

Booths 217, 219

Tektronix will exhibit a revolutionary lip-sync solution, the AVDC100 audio-to-video delay corrector, and a new family of modular video signal generators, the TG700, for transitional and long-term sync generation and maintenance applications.

Telestream

848 Gold Flat Road
Nevada City, CA 95959
USA

Tel: 530-470-1334
Fax: 530-470-1301
Email: maryjo_addiego@telestream.net
Web: www.telestream.net
Contact: Mike Piper

Booth 111**TeraNex**

7800 Southland Boulevard
Suite 250
Orlando, FL 32809
USA

Tel: 407-517-1463
Fax: 407-517-1101
Email: randy.thomas@teranex.com
Web: www.teranex.com
Contact: Randy Thomas

Booth 123**Thomson Broadcast, Inc.**

49 Smith Street
Englewood, NJ 07631
USA

Tel: 201-569-1650
Fax: 201-569-1511
Email: sales@thomsonbroad.com
Web: www.thomsonbroad.com
Contact: Jaime Manzano

Booth 317**Tiernan Communications**

5751 Copley Drive
San Diego, CA 92130
USA

Tel: 858-587-0252
Fax: 858-587-0257
Email: gmancuso@tiernan.com
Web: www.tiernan.com
Contact: George Mancuso

Booth 138

Tiernan Communications will demonstrate its THE1 Encoder which easily upgrades from 4-channel SD to 8-channel SD or even to HD, all in a compact 4RU chassis, as well as its newest DSNG encoders which feature a rugged chassis, with easy-to-use interface and front panel.

Trompeter Electronics

31186 La Baya Drive
Westlake Village, CA 91362
USA

Tel: 818-707-2020
Fax: 818-706-1040
Email: info@trompeter.com
Web: www.trompeter.com
Contact: Mark Borton

Booth 228

Trompeter Electronics is a leading manufacturer of video patch jacks, panels, and accessories. The J314 series jacks exceed the SMPTE 292 specifications for loss at 2.25 Ghz.

VDP, Inc.

205 W. Boutz Road
Building 3
Las Cruces, NM 88005
USA

Tel: 505-528-5715
Fax: 505-524-9669
Email: sales@vidcad.com
Web: www.vidcad.com
Contact: Walter P. Black

Booth 437

The leading software for automating the design and documentation of television, radio, and telecommunications systems. VidCAD offers scalable solutions for every size organization.

Vela

404 W. Ironwood Drive
Salt Lake City, UT 84115
USA

Booth 410

Tel: 800-231-1349 / 801-464-1600
Fax: 801-464-1699
Email: info@vela.com
Web: www.vela.com
Contact: Greg Schreiner

As a premier MPEG-2 encoding and decoding supplier, Vela also offers RapidAccess, network-centric, video server and Intelligent Distribution Series (IDS) of modular video/audio-processing boards with unique communication capabilities.

Vidbid.net c/o Ace Video

Booth 201

1 West 19th Street
New York, NY 10011
USA
Tel: 212-206-1475
Fax: 212-929-9082
Email: acevideony@aol.com
Web: www.vidbid.net
Contact: Michael Temmer

Video Products Group, Inc.

Booths 101, 103

1380 Flynn Road
Camarillo, CA 93012
USA
Tel: 805-383-5500
Fax: 805-383-5519
Email: info@vpginc.com
Web: www.vpginc.com
Contact: Serey Keo

Videotek, Inc.

Booths 224, 226

243 Shoemaker Road
Pottstown, PA 19464
USA
Tel: 610-327-2292
Fax: 610-327-9295
Email: sales@videotek.com
Web: www.videotek.com
Contact: Don Taylor

U.S. manufacturer of digital/analog, standard, and HD video test and measurement instruments, digital/analog production switchers, digital processing equipment, and digital/analog/MPEG routing and distribution.

Wavetek Wandel Goltermann

Booths 100, 102

5808 Churchman Bypass
Indianapolis, IN 46203
USA
Tel: 317-788-9351
Fax: 317-614-8313
Email: christina.harris@wwgsolutions.com
Web: www.wwgsolutions.com
Contact: Tina Harris

William Capon Enterprises

Booth 105

25139 Avenue Stanford
Valencia, CA 91355
USA
Tel: 661-257-9260
Fax: 661-257-7807
Email: ami@wce-enterprises.com
Web: www.wce-enterprises.com
Contact: William Capon

WCE, a leader in engineering design and systems building for the video and broadcast industries, is a full service consulting firm that also provides custom facility design, equipment procurement, equipment integration, systems building, installation and maintenance. Whether your project is large or small, WCE can provide you with cutting edge technology and the most technical service while staying within the scope and budget of your project.

Wohler Technologies

Booth 113

713 Grandview Drive South
San Francisco, CA 94080
USA
Tel: 650-589-5676
Fax: 650-589-1355
Email: info@wohler.com
Web: www.wohler.com
Contact: Chris Shaw

Wohler is the world leader of rackmount audio monitoring equipment, self-powered speakers, and level meters. New for SMPTE: Dolby Digital and Dolby E monitoring.

WolfVision, Inc.

Booth 305

655 SkyWay
Suite 119
San Carlos, CA 94070
USA
Tel: 650-802-0786
Fax: 650-802-0788
Email: wolfvision.usa@wolfvision.com
Web: www.wolfvision.com
Contact: Bruce Vann

Zack Electronics

Booth 407

1070 Hamilton Road
Duarte, CA 91010
USA
Tel: 626-303-0655
Fax: 626-303-8694
Email: dawad@zackinc.com
Web: www.zackinc.com
Contact: Margie Friedman

Zack is a distributor of wire, cable, connectors, labeling products, installation accessories, and testing products for the motion picture and entertainment industries. Lines include Tektronix, Belden, Kings, Neutrik, Canare, APW/Stantron, and Leader to name a few.