



Society of Motion Picture Engineers, Fall Convention,

### Last-Minute Update

## 134th SMPTE Technical Conference and Equipment Exhibit

Metro Toronto Convention Centre, Canada, November 10 - 13, 1992

The 134th SMPTE Technical Conference and Equipment Exhibit, "Images in Motion — The Second Century," will open on Tuesday, Nov. 10, at the Metro Toronto Convention Centre, Toronto, Ont., Canada, and will conclude on Nov. 13.

As an added educational bonus, two all-day tutorials, "The Post Experience" and "Multimedia World" will precede the conference on Nov. 9.

### Technical Program

The technical program will be divided into three main areas: television, film, and multimedia. During the four-day conference over 115 papers, exploring innovations in motion imaging and examining advances and directions in established motion-picture and television technologies, will be presented.

"This SMPTE gathering will be particularly significant for both its degree of specialization and its degree of integration," said Program Chairman Colin Davis, Kodak Canada, Inc. "Not only will we explore the depths of media and applications development, but we will look at media integration and how they are converging in so many areas."

The conference will offer morning and afternoon sessions, covering a wide array of topics. There will be 16 technical sessions, including Compressed Video Imaging, Film Post-Production and Projection Technologies, Design/Development of CBC's New Toronto

Broadcast Centre, Video Crossroads, Laboratory Technology/Preservation and the Environment, Large-Format Film Technology, Television Digital Systems (Part 1), Film Production and Sound Technologies, Television Digital Systems (Part 2), Production Technology Application, Advanced Television Systems, and Television Recording Technology.

### Special Sessions/Tours

Three technical sessions will take place outside of the Convention Centre. On Wednesday, Nov. 11, presentations will be made at Skydome, where registrants will also observe the largest indoor television screen currently in use, and Cinesphere - Ontario Place, where attendees will view the world's largest film format. On Thursday, the "Film Production and Sound Technologies" session will be held at Film House, one of North America's largest post-production facilities for motion pictures and episodic television.

"These sessions will take attendees away from the large-room feel, and air out the proceedings by interspersing physical application with the traditional theoretical and analytical program," Davis said. "We won't take away from our traditional depth, but we'll add new dimensions this year."

On Thursday, the multimedia portion of the program will feature a special ses-

ion, entitled "Beyond the Desktop," which will include a selection of multimedia-related paper presentations and interactive events that will require some audience participation. The session will be held in conjunction with the Toronto section of the Association of Computing Machinery/Special Interest in Graphics (ACM/SIGGRAPH).

Also on Thursday, the television portion of the program will feature "Digital Television Day." Throughout the day, sessions will be devoted to issues relating to digital television technologies. On Friday morning, the Film Session will offer a panel discussion on the topic of "Electronic Post-Production and Visual Effects." Leading-edge professionals will play a significant role in this event.

In addition, there will be daily tours of CBC's new broadcast center.

### Multimedia Workshop Program

During the four-day conference, hands-on workshops focusing on multimedia will be offered. The sessions will feature demonstrations and close interaction with media integration technology, as opposed to a lecture-type format. One workshop will be offered each day of the conference: Multimedia Production will be held on Tuesday, from 1:30 to 5 p.m.; Multimedia Training and Education Applications will take place on Wednesday, from 8:30 a.m. to 12 p.m.; Multimedia Communications will be on



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Thursday, from 8:30 a.m. to 12 p.m.; and Multimedia Information Access will conclude the workshop program on Friday, from 8:30 a.m. to 12 p.m.

### All-Day Tutorials

#### Multimedia World

Multimedia World will provide both theoretical and hands-on coverage of multimedia tools and applications; discussion will be devoted to display, processing, control, and communications. Information on computer platforms — PCs, Macintoshes, and workstations — will be presented, and forecasts of the technology's future will be offered.

"Film, broadcasting, and computer professionals have all been integrating bits and pieces of various media into their work, but recently there has been a rapid explosion in electronic multimedia and it has become very affordable," said Multimedia World Program Chairman Shaker Sabri, Bell Northern Research. "We have to start looking at multimedia as having potential to dictate the way we will conduct our day-to-day business."

The tutorial will include a summary of the many multimedia standards that exist and are under development, including SMPTE, ISO, and CCITT standards. In addition, the session will address the topics of multimedia production, covering the process of creating electronic multimedia productions and demonstrating techniques for bringing together sound, full-motion video, stills, graphics, and text; teletraining and distance education, focusing on interactive, easily accessible educational materials; productivity and groupware, highlighting work group and networking arrangements; and multimedia applications, covering the process of communicating and conveying information interactively. Presenters at the tutorial will include Sabri; Leonid Strashun, Sony

Broadcast and Communications; John Robinson, University of Waterloo; Phil Smith, IIS Technologies; and Louise Guay, Public Technology.

#### The Post Experience

The Post Experience will provide an overview of modern motion-picture and television post-production. Registrants will learn about sound editing, Foley artistry, automated dialogue replacement (ADR), off- and on-line editing, and special effects and distribution. Topics to be covered will include how each layer of sound effects and ADR is added to a motion-picture or video scene, the different uses of off- and on-line editing, how to mix the high-resolution medium of film origination with video technology to create motion-picture and television special effects, and low-cost sound techniques used in multimillion dollar movies.

"The Post Experience is aimed at people who want to know more about post-production," said Harvey Rogers, YTV, organizer of the tutorial. "As post-production technology becomes more sophisticated, this seminar provides a rare overview of the current technology and methods used by the post-production community."

The educational content of The Post Experience will be presented in a multimedia format. Registrants will be guided through the post-production process by Mr. Q, an electronically animated, wisecracking host, who will introduce each segment. The audience will be taken directly into an editing suite — via a 10-ft video screen — where they will participate in the editing of a scene from YTV's "Maniac Mansion." Emphasis throughout the day will be placed on audience participation. They will select shots from the dailies of "Maniac Mansion" to create a finished scene using off-line editing and sound post-production techniques; the

voices of volunteers will be used in the ADR process.

During the tutorial, attendees will see firsthand how electronic video technology can enhance the capabilities of motion-picture film in a documentary, entitled *The Making of the Kodak Olympic Commercial*. The film, which was put together by Eastman Kodak Co., gives a behind-the-scenes look at the production of the company's commercial, which was created specifically to be aired during the Summer Olympics in Barcelona.

Speakers will include Michael Beard, WMB Productions; Andy Malcolm, Film House; John Gajdecki, Visual Effects; Ellen Heine, AdCom/Epix; Mark Wright, Masters Workshop; David Greene, Magnetic Music; Jeff DeWolfe, International Image; and Bob Predovich, Masters Workshop. Anne Medina, Canadian Academy of Motion Arts, and Ism  Bennie, Paragon International, will be the guest speakers.

Throughout the day, there will be contests and giveaways, including a grand prize for the attendee who wears the most broadcast and film industry logos. The criteria is one logo per company. Any clothing item — jewelry, pins, T-shirts, etc. — is acceptable. There will be three separate drawings of various items to be won by participants; prizes will include promotional items from movies and television programs.

#### Panel Discussion

In addition to the traditional papers presentations and product displays, the conference will offer a two-part panel discussion open to all attendees. "Survival Guide to Digital Broadcasting," will be held from 12:30 to 1:30 p.m. on Wednesday, Nov. 11, and Thursday, Nov. 12. The panel discussion, which is being offered free of charge, is sponsored by Phillips Publishing Co.

**Multimedia World Tutorial**  
**Monday, Nov. 9**  
**Room 105**

**Metro Toronto Convention Centre**

8:00 Registration and Distribution of Course Material  
8:30 Opening Remarks  
Shaker Sabri, Bell Northern Research

**Part One: What is Multimedia?**

8:45 Introduction  
Shaker Sabri, Bell Northern Research  
9:15 Multimedia Fundamentals  
John Robinson, University of Waterloo  
12:00 Lunch

**Part Two: Multimedia Applications and Trends**

1:30 From Multimedia to Virtual Reality  
Louise Guay, Public Technology  
3:00 Multimedia Applications in Training and Education  
Leonid Strashun, Sony Broadcast and Communications  
3:30 Applications in Multimedia Communications  
Phil Smith, IIS Technologies  
4:00 Other Applications for Multimedia  
Shaker Sabri, Bell Northern Research  
4:30 Closing Remarks and Overview of Multimedia Workshops  
5:00 Conclusion

**The Post Experience\***  
**Monday, Nov. 9**  
**Room 107**

**Metro Toronto Convention Centre**

8:30 Introduction  
Harvey Rogers, YTV  
8:40 Opening Film  
*Precious Images*  
8:45 Introduction and Program Review  
Michael Q, YTV Canada  
Mr. Q (an electronic cartoon character), Aniform Canada  
9:05 At the Shoot  
Michael Beard, WMB Productions  
9:25 The Film Transfer  
Michael Beard, WMB Productions  
9:45 The Dailies  
Michael Beard, WMB Productions  
10:10 Break  
10:25 Contest Giveaways  
10:35 The Off-Line  
Ellen Heine, AdCom/Epix  
Michael Beard, WMB Productions  
Michael Q, YTV Canada  
Mr. Q, Aniform Canada  
11:35 The On-Line  
Michael Beard, WMB Productions  
11:45 The Making of the Kodak Olympic Commercial  
11:55 Special Effects  
John Gajdecki, Visual Effects  
12:30 Tape-to-Tape Transfer  
Michael Beard, WMB Productions

## Equipment Exhibit

The equipment exhibit will be open from 10 a.m. to 6 p.m. on Tuesday, Wednesday, and Thursday, and from 10 a.m. to 2 p.m. on Friday. To date, numerous companies from North America and abroad are scheduled to exhibit the industry's newest products and latest innovations. The show floor will feature displays from many longtime exhibitors, as well as such first-time participants as Hewlett-Packard.

Registrants at the all-day tutorials, workshops, or technical sessions will be granted free admission to the exhibit.

**Please note:** No one under the age of 12 will be permitted on the show floor. Children between the ages of 12 and 15 must wear badges and be accompanied at all times by an adult.

## New Technology Room

The highly successful New Technology Room will again be featured at this year's exhibit. A number of companies are taking advantage of this facility, which offers exhibitors a special location to introduce their wares and services to the press and other interested parties. Participants will include Magna-Tech Electronic Co., NVision, Telemetrics Inc.,

FOR•A Corp. of America, Panasonic Corp., Quantel, Jastram, Filmtechnik, and Multidyne Electronics Inc. The New Technology Room will be located on the exhibit floor.

## Creativity Clinics

Creativity Clinics will be a new feature at the SMPTE Equipment Exhibit. During these sessions, well-known industry experts will offer demonstrations on the creative aspects of motion-picture and television production. Creative lighting techniques, underwater motion imaging, audio effects, and aerial filming are among the topics that are expected to be covered.

The lighting clinic will be held twice each day of the conference. Each two-hour clinic will be run by a different specialist. Some of the people conducting the hands-on sessions will be Peter Edwards, a three-time Emmy Award winner and founder of the Canadian chapters of the Society of Television Lighting Directors and the Illumination Engineering Society; and Rene Osahi, a Gemini and Genie Award winner, who has done lighting for a number of feature films and television programs, including "The Wonder Years." The event will be sponsored by the

Canadian Society of Cinematographers, the Society of Television Lighting Designers, and Lightsource, Inc., which is also conducting the sessions.

## HDTV Demonstrations

Throughout the conference there will be all-day HDTV demonstrations. Vision 1250 — a group of European broadcasters, manufacturers, independent video and film producers, and transmission authorities who are committed to the production of HDTV programs — will show the results of film-to-tape transfers and tape-to-film transfers and the latest HDTV productions, including footage from the Summer Olympics. NHK and The 1125/60 Group will also present demonstrations.

## Special Services

For the convenience of conference attendees, the SMPTE has enlisted the assistance of Sack Sitters. For a small fee, the company will offer such services as packaging, shipping, faxing, and photocopying. Sack Sitters will also serve as a message center, an inbound receiving area for deliveries, and a storage area for items such as coats, briefcases, packages, etc.

12:35 Lunch  
 Guest Speaker Anne Medina, Canadian Academy of Motion Arts

1:30 Contest Giveaways  
 1:40 Film Style Sound Presentation  
 1:55 Post Audio Sound Effects  
 Bob Predovich, Masters Workshop  
 Mark Wright, Masters Workshop  
 CFNY Discovery Mobile

2:30 Foley  
 Andy Malcolm, Film House  
 Film: *Track Stars*

3:15 Break  
 3:30 Music  
 David Greene, Magnetic Music

4:00 The Final Mix  
 Michael Beard, WMB Productions  
 Discovery Mobile

4:45 After the Post  
 International Standards, Jeff Dewolde, International Image  
 Program Distribution — How and When, Ismé Bennie, Paragon International  
 Closed Captions — How and When, TBA

5:15 Screen Final and Original Scene  
 Michael Q, YTV Canada  
 Mr. Q, Aniform Canada  
 Michael Beard, WMB Productions

5:30 Closing Remarks  
 \*Schedule is subject to change.

### Schedule of Multimedia Workshops

#### Workshop I: Multimedia Production

Tuesday, Nov. 10 - 1:30 to 5:00  
 Room 104B, Metro Toronto Convention Centre

1:30 to 3:00 Part One: Innovative Multimedia Production Applications  
 Chairperson: Louise Guay, Public Technology

3:00 to 3:30 Break  
 3:30 to 5:00 Part Two: Multimedia Post-Production  
 Chairperson: Karen Mills, White Light Video

#### Workshop II: Multimedia Training and Education Applications

Wednesday, Nov. 11 - 8:30 to 12:00  
 Room 104B, Metro Toronto Convention Centre  
 Chairperson: Leonid Strashun, Sony Broadcast and Communications

#### Workshop III: Multimedia Communications

Thursday, Nov. 12 - 8:30 to 12:00  
 Room 104B, Metro Toronto Convention Centre

Chairpersons: Phil Smith, IIS Technologies  
 Shaker Sabri, Bell Northern Research

#### Workshop IV: Multimedia Information Access

Friday, Nov. 13 - 8:30 to 12:00  
 Room 104B, Metro Toronto Convention Centre

Chairpersons: Stephanie Mahan, Adobe Systems  
 Shaker Sabri, Bell Northern Research

### Consultants Center

A special area in the exhibit hall will be housed by the some of the industry's leading consulting firms. Attendees will be able to obtain information on products and services, and seek advice and solutions regarding technical difficulties.

### Registration Information

Daily on-site registration will be available for the conference beginning Sunday, Nov. 8, at the Metro Toronto Convention Centre, from 1 to 6 p.m. On Monday, the registration desk will be open from 7:30 a.m. to 6 p.m.; on Tuesday, Wednesday, and Thursday, the hours will be from 8 a.m. to 6 p.m. On Friday, the desk will be open from 8 a.m. to 12 p.m.

**Please note:** All registrants who are entering Canada must have either their passport, voter's registration card, or birth certificate. Drivers licenses will not be accepted.

### Shuttle-Bus Service/Travel Information

Complimentary shuttle buses will run between the Convention Centre and the Sheraton and Royal York hotels. L'Hotel is adjacent to the Convention Centre.

Travel arrangements can be made now by calling Media Travel U.S.A. at (800) 283-8747 for discounted fares on air travel, Amtrak transportation, and car rentals. Be sure to mention that you are attending the SMPTE conference to get the best rates.

### Committee Meetings

Most of the SMPTE engineering, administrative, and editorial committee meetings will be held at the Metro Toronto Convention Centre. Committee members will be notified in advance of the time and place of their meetings. A complete schedule will be available in the registration area of the Convention Centre.

The ACVL will hold its meeting on Saturday and Sunday, Nov. 7 and 8, at the Sheraton Hotel.

### Speakers/Special Events

A special feature at the conference will be a keynote address during the Opening Session on Tuesday, Nov. 10, by Patrick Watson, chairman of the board of CBC and a noted Canadian television journalist, filmmaker, and writer. Watson's speech, "The Death Stars are a Godsend," will focus on the global effects of technology in the

broadcast field.

All attendees are invited to attend the Opening Reception, which will be held Tuesday at L'Hotel, from 6 to 8 p.m. The function, which will feature music and refreshments, is offered at no charge.

### Honors and Awards Luncheon

The Honors and Awards Luncheon, to be held Tuesday afternoon at the Convention Centre, will feature guest speaker Dave Broadfoot, a well-known Canadian humorist. Broadfoot, whose humor deals with universal issues, is in constant demand for international conferences of every kind. He has appeared twice before Queen Elizabeth and has performed for former President Ronald Reagan and Prince Philip. Broadfoot is the winner of the Juno Award for comedy recording, 13 Actra Awards for writing and performing comedy in radio and television, and a "Certified Speaking Professional" Award. He is a recipient of the Queen Elizabeth Silver Jubilee Medal, an Honorary Doctorate from Athabasca University, and holds the rank of Honorary Staff Sergeant in the Royal Canadian Mounted Police. He is a veteran of CBC Radio's "Royal Canadian

Air Farce," and an Officer in the Order of Canada.

### **Fellows Luncheon**

The Fellows Luncheon will take place Wednesday, Nov. 11, at L'Hotel. SMPTE Past-President Maurice French will deliver the Fellows Luncheon address. During the luncheon ceremonies, 15 SMPTE members will be elevated to Fellow status.

Attendance at the luncheon is limited to Fellows and Life Fellows. A Fellow of the Society is one who is no less than 30 years of age and has, by proficiency and contributions, attained an outstanding rank among engineers or executives in the motion-picture, television, or related industries.

### **Annual Banquet**

A gala event is planned for the evening of Thursday, Nov. 12, at the elegant Royal York Hotel. Following a reception from 7 to 8 p.m., the banquet will take place in the concert hall, specially transformed for

the occasion. Dancing to the big-band sound of the internationally famous Spitfire Band will be featured. Entertainment will also be included in the evening's program.

This year, the Annual Banquet and Reception will be held the night before the conference ends so that exhibitors will be able to meet with attendees and schedule appointments for the following day.

### **Partners Program**

An exciting Partners Program will take place during the conference, starting with a Welcoming Tea on Monday, Nov. 9, and continuing with interesting daily activities. On Tuesday, participants will tour the recently refurbished Elgin and Winter Garden Theatres before joining other conference attendees at the Honors and Awards Luncheon. A special day is planned for Wednesday, offering partners the opportunity to visit Niagara Falls and the picturesque town of Niagara-On-The-Lake. Lunch will be served at historic

Queenston Heights, on the Niagara escarpment. On Thursday, a drive through the city of Toronto will introduce participants to the unique makeup of the city, and will include a visit to the CN Tower, which offers a breathtaking, panoramic view of Toronto, Toronto Islands, and Lake Ontario. Lunch will be served at the elegant Vaughan Estate on the Don River.

### **Sponsored Activities**

The SMPTE would like to thank the following sponsors for their generous support: Eastman Kodak Co., Dolby Corp., Filmlab Engineering Pty. Ltd., Consolidated Film Labs, NBC, Ampex Canada, Command Post and Transfer, Medallion PFA Film and Video, 3M Corp., Fuji Photo Film Canada Inc., Phillips Business Information Inc., NHK Corp., Vision 1250 Group, The 1125/60 Group, Sony Corp. of Canada, Spot Film and Video Inc., and CBC.

— Carol King

## **Exhibit Directory**

Sustaining  
SMPTÉ  
Member

**Abekas Video Systems, Inc.**, 101 Galveston Dr. Redwood City, CA 94063, (415) 369-5111, Fax: (415) 369-4777

**Booth:** 1125

*Product Description:* A34 integrated production system, A42 digital still store, A51 and A57 digital special effects, A65 and A66 digital disk recorders, A72 digital character generator, A82 digital switcher, and Abekas system products.

*Booth Personnel:* D. Diels, R. Griffin, G. Schutte, S. Lose, A. Heatly, E. Breault, J. Dunstan

**Acura Technology Group, Inc.**, 100 Leck Crescent, Unit 6, Richmond Hill, Ont., Canada L4B 3E6, (416) 886-6960, Fax: (416) 886-6966

**Booth:** 1125

*Product Description:* Abekas Video Systems, Barco Inc., Drake Electronics, Colorgraphics, Faroudja Labs, Snell & Wilcox, Solid State Logic, Meret Optical Communications.

*Booth Personnel:* S. Shen, J. Pelletier, T. Lyon, B. Pelletier, D. Bezenar, D. Harrison, W. Thiessen, S. Broom, G. Lofthouse

**Adcom Electronics Ltd.**, 310 Judson St., Unit 1, Toronto, Ont., Canada M8Z 5T6, (416) 251-3355, Fax: (416) 251-3977

**Booth:** 539

*Booth Personnel:* B. Jackes, E. Labanowicz, D. Hounsell, B. Spiders

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Member

**Agfa Division**, One Ramland Rd., Orangeburg, NY 10962, (914) 365-0190, Fax: (914) 359-3201

**Booth:** 621

*Product Description:* Agfa Forte, a top-of-the-line film recorder for putting computer-generated special effects directly onto motion-picture film.

*Booth Personnel:* C. McMahon

**Alamar**, 489 Division St., Campbell, CA 95008, (408) 866-9373, Fax: (408) 866-4367

**Booth:** 826

*Booth Personnel:* D. Power

**Alexander Batteries**, P.O. Box 1508, Mason City, IA 50401, (515) 423-8955, Fax: (515) 423-1644

**Booth:** 1335

*Product Description:* Replacement batteries and battery maintenance equipment for video industry.

*Booth Personnel:* M. Palardy

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SMPTÉ  
Member

**The Allen Products Co.**, 180 Wampus Lane, Milford, CT 06460, (203) 874-2563, Fax: (203) 877-6346

**Booth:** 1606

*Product Description:* Motion-picture film processors, accessories, and parts.

*Booth Personnel:* R. Bailer, M. Parrella, B. Scholz, M. Leszczynski, J. Walsh

Sustaining  
SMPTÉ  
Member

**AMEK/Tac U.S. Operations**, 10815 Burbank Blvd., N. Hollywood, CA 91601, (818) 508-9788, Fax: (818) 508-8619

**Booth:** 1402

*Product Description:* Hendrix automated in-line multitrack production console; Einstein automated 24-bus production console; BC III radio and TV production, video post-production console.

*Booth Personnel:* G. Green, P. Fleury, P. Dalhaes, B. Bruni, S. Harvey, S. Landin

**AMI Publishing**, P.O. Box 35, 20 Wellington St. E., Aurora, Ont., Canada L4G 3H1, (416) 727-7532, Fax: (416) 853-5096

**Booth:** P12

*Booth Personnel:* S. Rogers

**AMS**

See listing under Siemens Audio Inc.

**Amtel Systems**, 310 Judson St., Unit 6, Toronto, Ont., Canada M8Z 5T6, (416) 251-3355, Fax: (416) 251-2748

**Booth:** 539

*Product Description:* E-Pix non-linear

editing system and other products sold by parent company, Adcom.

*Booth Personnel:* R. Wick, J. Lo, P. Bandas, C. Root, J. McDonald, E. Heine, M. Weinstein, P. McDonnell, G. McKoen, B. James, E. Labanowitz



**Anton/Bauer, Inc.**, One Controls Dr., Shelton, CT 06484, (203) 929-1100, Fax: (203) 929-9935

**Booth:** 715

*Product Description:* Batteries, chargers, lighting, camera accessories.

*Booth Personnel:* M. Malcy



**Association of Cinema & Video Laboratories**, c/o WRS Motion Picture & Video Lab, 1000 Napor Blvd., Pittsburgh, PA 15205, (412) 937-7700

**Booth:** P11

*Booth Personnel:* E. Janow



**AT&T - Network Systems**, 111 Madison Ave., Morristown, NJ 07962-1976, (201) 606-4267, Fax: (201) 631-7507

**Booth:** 1411

*Product Description:* Fiber-optic camera link and audio snake for EFP/ENG applications, fiber-optic connectors, splices, interconnect and cross connect units and fiber-optic closures.

*Booth Personnel:* D. Sterling, D. Mantle, L. Sherrets, C. Landreth, J. Joy, J. Kasmiskie, L. Wiley, D. Goff, J. Garbowski, W. Hensley

**Audio Accessories**, Mill St., Marlow, NH 03456, (603) 446-3335, Fax: (603) 446-7543

**Booth:** 306

*Booth Personnel:* T. Symonds

**Audio Precision**, 5465 S.W. Western Ave., Ste. J, Beaverton, OR 97005, (503) 627-0832, Fax: (503) 641-8906

**Booth:** 1329

*Product Description:* System One family of PC-based audio test sets, with FASTtest/FASTtrig subsecond audio channel testing. Portable One Plus with 12 functions plus sweeps and graphs.

*Booth Personnel:* B. Metzler, B. Snelgrove, A. Hope, F. Pimiskern, R. Lahaie, B. Graham



**Avid Technology, Inc.**, Three Burlington Woods, Burlington, MA 01803, (617) 221-6789, Fax: (617) 221-6799

**Booth:** 629

*Product Description:* Digital, non-linear editing systems.

*Booth Personnel:* L. LeBlanc



**Avitel Electronics Ltd.**, 3678 West 2100 South, Salt Lake City, UT 84120, (801) 977-9553, Fax: (801) 977-9674

**Booth:** 718

*Product Description:* 3200 Series modular terminal equipment: video DAs; audio DAs; time code readers/generators; video switchers. TPR 1040 keycode reader. Serial digital video products. VTR mounting shelves.

*Booth Personnel:* E. Scott, P. Treleven



**Barco, Inc.**, 1000 Cobb Place Blvd., Kennesaw, GA 30144, (404) 590-5900, Fax: (404) 590-8836

**Booth:** 1125

*Product Description:* Full range of grade 1 and grade 2 professional color monitors and video routing switchers.

*Booth Personnel:* D. Desmit, G. Stas



**B.E.E.R., Inc.**, 2794 Circleport Dr., Erlanger, KY 41018, (606) 282-1802, Fax: (606) 282-1804

**Booth:** 628

*Product Description:* Used audio and video equipment.

*Booth Personnel:* P. Beckett, K. Harmon, M. Woodward



**BHP, Inc.**, 1800 Winnemac Ave., Chicago, IL 60640-2662, (312) 989-2140, Fax: (312) 989-2144

**Booth:** 1239

*Product Description:* BHP motion-picture film printers and accessories; Filmlab Colormaster analyzers; Filmlab Excalibur optical time code reader/data processing system; Filmlab film processors.

*Booth Personnel:* J. Ehrenberg, G. Darrell, W. Hrastnik, K. Pahnke, E. Ramirez, N. Varian, B. Hargreaves, J. Schweitzer, C. Geens



**The BroadCast Store, Inc.**, 4525 Valerio St., Burbank, CA 91505, (818) 845-1999, Fax: (818) 845-9483

**Booth:** 1434

*Product Description:* New and used broadcast/industrial audio/video equipment for all post and post-production needs.

*Booth Personnel:* W. Druker, M. Finker, J. LaBarbera



**Broadcast Video Systems Ltd.**, 40 W. Wilmot St., Richmond Hill, Ont., Canada, (416) 764-1584, Fax: (416) 764-7438

**Booth:** 527

*Product Description:* Masterkey Series of downstream linear keyers, comb filter decoder, component transcoders, safe area generators. Boards to plug into Leitch and GVG DA frames including a video proc amp, keyer and 4-input switching matrix.

*Booth Personnel:* B. Verwey, P. Greenhalgh, A. Reynolds

**Broadcaster Magazine**, 1450 Don Mills Rd., Don Mills, Ont., Canada M3B 2X7, (416) 445-6641, Fax: (416) 442-2213

**Booth:** P3

*Booth Personnel:* J. Cook



**BTS, Broadcast Television Systems, Inc.**, 2300 South 2300 West, Salt Lake City, UT 84119, (801) 972-8000, Fax: (801) 972-0837

**Booth:** 1111

*Booth Personnel:* A. Jensen

**Canadian Society of Cinematographers**, 309 Lesmill Rd., Don Mills, Ont., Canada M3B 1V1, (416) 449-2486, Fax: (416) 441-1468

**Booth:** P7

*Booth Personnel:* L. Carlson



**Canon U.S.A., Inc.**, 610 Palisade Ave., Englewood Cliffs, NJ 07632, (201) 816-2900, Fax: (201) 816-0972

**Booth:** 1310

*Product Description:* Broadcast television lenses, pedestals, robotics.

*Booth Personnel:* R. Low, G. Tubbs, M. Momosawa, T. Bender

**Captive Systems**, 1154 Adirondack Dr., Ottawa, Ont., Canada K2C 2V1, (613) 224-2829, Fax: (613) 224-5957

**Booth:** 1531

*Product Description:* Portable time-code-based closed and open captioning system.

*Booth Personnel:* D. Gillgrass, D. Hutchinson, J. Renforth



**Dwight Cavendish Co.**, 6444 N. Ridgeway Ave., Lincolnwood, IL 60645, (708) 673-5454, Fax: (708) 673-1389

**Booth:** 610

*Product Description:* The Copymaster

2500 videocassette duplication system and the debut of the Copymaster PD-40 pancake duplicator.

*Booth Personnel:* M. Ruchrdanz, C. Ruchrdanz, C. Schwark, K. Kjellgren, J. Hollenkamp, J. Steynor, J. Dow, B. LeGrandeur

**Central Dynamics Ltd.**, 147 Hymus Blvd., Pointe-Claire, Que., Canada H9R 1G1, (514) 697-0810, Fax: (514) 697-0224

**Booth:** 521

*Product Description:* Routing switchers, audio-video utilities switchers, video impulse distribution amplifiers.

*Booth Personnel:* P. Censi



**Cinema Products Corp.**, 3211 S. La Cienega Blvd., Los Angeles, CA 90016, (310) 836-7991, Fax: (310) 836-9512

**Booth:** 1221

*Booth Personnel:* M. Klemme



**Cinequip, Inc.**, 10 Banigan Dr., Toronto, Ont., Canada M4H 1E9, (416) 476-7700, Fax: (416) 467-7716

**Communiq, Inc.**, 2235 Kenmore Ave., #112, Buffalo, NY (716) 874-7080, Fax: (716) 874-1690

**Booth:** 1421

*Product Description:* Canon LX100, Dedo lights, Kobold Lights, Lowel lighting, Nalpak, O'Connor fluid heads, Portabrace cases, prompters, Rifa lights, Sennheiser, Spectral meters, Tiffen filters.

*Booth Personnel:* D. Hall, E. Hall, J. Ferguson, T. Crack, E. Wong, M. Zernask, C. Hennigar, P. Calandra

#### **Colorgraphics**

See listing under Acura Technology Group, Inc.

**Comfort Sound Recording Studio, Ltd.**, 26 Soho St., Ste. 390, Toronto, Ont., Canada M5T 1Z7, (416) 543-7992, Fax: (416) 593-7301

**Booth:** 1021

*Product Description:* A 48-ft track audio mobile set up to record sound for television variety specials, live albums, and film.

*Booth Personnel:* D. McClement, J. Erickson

**Comprehensive Video Supply/CV Technologies**, 148 Veterans Dr., Northvale, NJ 07647, (201) 767-7990, Fax: (201) 767-7377

**Booth:** 311

*Product Description:* PC and Mac-based videotape editing systems. Video production software, 1993 Edition of The Comprehensive Catalog. Largest supplier of video/audio accessories worldwide.

*Booth Personnel:* F. Taylor, J. Warner-Royer, P. Distefano



**Computer Prompting & Captioning Corp.**, 3408 Wisconsin Ave. NW, Washington, DC 20016, (202) 966-0980, Fax: (202) 966-0981

**Booth:** 532

*Product Description:* Closed captioning and teleprompting systems running on IBM PC compatibles and laptops. Captioning systems work with SMPTE time code. Teleprompters scroll scripts from any word processor.

*Booth Personnel:* D. Som, S. Hoffman

**delSynchro Ltd.**, 1231 Theoret St., Ile Bizard, Que., Canada H9E 1H7, (514) 626-4067, Fax: (514) 626-4067

**Booth:** 521

*Product Description:* Electronic rhythm-band system for ADR and dubbing in video.

*Booth Personnel:* P. de Lanauze, T. Procop, M. George



**DeSisti Lighting/P.S. Lights Inc.**, 31 Booth Ave., Toronto, Ont., Canada M4M 2M3, (416) 469-2077, Fax: (416) 466-9612

**Booth:** 1325

*Product Description:* Full range of DeSisti professional motion-picture/TV lighting (including single-ended discharge Fresnels, DEB electronic flicker-free ballasts) rigging, and lighting controls.

*Booth Personnel:* J. Kennedy, J. Madlener, M. DeSisti, F. DeSisti, P. Radi, D. Dales

**Digital Evolution Magazine**, 3214 Wharton Way, Mississauga, Ont., Canada L4X 2C1, (416) 624-5025, Fax: (416) 624-3733

**Booth:** P1

*Booth Personnel:* R. Lockhart



**Digital Processing Systems Inc.**, 55 Nugget Ave., Unit #10, Scarborough, Ont., Canada M1S 3L1, (416) 754-8090, Fax: (416) 754-7046

**Booth:** 837

*Booth Personnel:* J. Fazackerley

**Discreet Logic Inc.**, 5505 St. Laurent,

Ste. 4201B, Montreal, Que., Canada M2T 1S6, (514) 272-0525, Fax: (514) 272-0585

**Booth:** 721

*Product Description:* Flame™, a sophisticated on-line digital editing and paint software for users in the video marketplace. Inferno™, on-line digital editing and paint software for the film marketplace.

*Booth Personnel:* P. Cirka



**Dolby Laboratories, Inc.**, 100 Potrero Ave., San Francisco, CA 94103, (415) 558-0200, Fax: (415) 863-1373

**Booth:** 1405

*Product Description:* Dolby stereo SR•D, Dolby cinema processors, Dolby spectral recording (SR), Dolby Surround, Dolby AC-2 digital audio coding.

*Booth Personnel:* B. Mead, N. Byers, I. Allen, B. Jasper

**Dorrrough Electronics**, 5221 Collier Pl., Woodland Hills, CA 91364, (818) 999-1132, Fax: (818) 998-1507

**Booth:** 319

*Product Description:* New Video Level Meter with separate displays of luminance and chrominance.

*Booth Personnel:* M. Dorrough, K. Dorrough

#### **Drake Electronics**

See listing under Acura Technology Group, Inc.

**DSC Laboratories**, 3565 Nashua Dr., Mississauga, Ont., Canada, L4V 1R1, (416) 673-3211, Fax: (416) 673-0929

**Booth:** 304

*Product Description:* Test patterns on slide, film, or other media. Illuminators for test patterns.

*Booth Personnel:* D. Corley



**Dan Dugan Sound Design**, 290 Napoleon St., San Francisco, CA 94124, (415) 821-9776, Fax: (415) 826-7699

**Booth:** 1331

*Product Description:* Model D automatic mixing controller makes transparent cross-fades between mikes to follow unpredictable live action. 8-channel rack unit patches into console insert points.

*Booth Personnel:* D. Dugan

**Dynatech Video Group**, 6400 Enterprise Lane, Madison, WI 53705, (608) 273-5828, Fax: (608) 273-5832

**Booth:** 1121

*Product Description:* Routers, switchers, paint and graphics, CGS, integrated production equipment, color correction.

*Booth Personnel:* P. Rome

**Echolab, Inc.**, 175 Bedford Rd., Burlington, MA 01803, (617) 273-1512

**Booth:** 507

*Product Description:* Production and post-production switchers, Tempest DVE mouse-driven effects.

*Booth Personnel:* T. Whittaker, R. Whittaker

Sustaining  
SMPTÉ  
Member

**Ediflex Systems**, 1225 Grand Central Ave., Glendale, CA 91201, (818) 502-9100, Fax: (818) 502-0052

**Booth:** 417

*Product Description:* Ediflex non-linear editing systems. Optiflex magneto-optical digital sound multitrack sync sound recording system.

*Booth Personnel:* T. Schmitz, H. Dow, S. Goldsmith, M. Priessel, B. Elswick, J. Rothery, P. Warrington

Sustaining  
SMPTÉ  
Member

**Editing Machines Corp.**, 1825 Q St., NW, Washington, DC 20009, (202) 232-4597, Fax: (202) 234-1847

**Booth:** 939

*Booth Personnel:* N. Umberger

**Erikson Pro Audio**, 378 Isabey, St. Laurent, Que., Canada, H4T 1N1, (514) 738-3000, Fax: (514) 737-5069

**Booth:** 405

*Booth Personnel:* B. Russell, B. Hayes

Sustaining  
SMPTÉ  
Member

**Evertz Microsystems Ltd.**, 3465 Mainway, Burlington, Ont., Canada, L7M 1A9, (416) 335-3700, Fax: (416) 335-3573

**Booth:** 1311

*Product Description:* Time code equipment, ATR and VCR interfaces, keycode readers for telecine, logging programs for film/video transfer, clocks, timers, and data displays.

*Booth Personnel:* C. Lancaster, A. Lamshead, G. Wheaton, B. Evans, A. Scott, B. Evans, H. Gibson, D. Evertz, R. Evertz

#### **Faroudja Laboratories**

See listing under Acura Technology Group, Inc.

Sustaining  
SMPTÉ  
Member

**For-A Corp. of America**, 313 Speen St., Natick, MA, 01760, (508) 650-3902, Fax: (508) 651-8729

**Booth:** 716

*Product Description:* UDP-1000 Universal Digital Processor - Beta quality from any tape, noise reduction, CSS-200

Compact Still Store - cartridge storage of 200 compressed TV frames. VPS-510 Video Production System with built-in TBC and effects memory.

*Booth Personnel:* D. Acker, T. Imoto, T. Tsuboi, J. Margardo

**Frezzolini/PEP, Inc.**, 5 Valley St., Hawthorne, NJ 07506, (201) 427-1160, Fax: (201) 427-0934

**Booth:** 503

*Product Description:* Shotlister, the Windows software system for post-production. Jog Box, for Sony DVR-10, DVR-18, and Betacam SP machines. Edit with Audio in Search, Jog and Edit Pre-Roll. The latest Frezzolini/PAG charger line.

*Booth Personnel:* J. Tharpe, S. Bramble, P. Robinson, J. Swant, R. DeBry, J. Shearer, T. Finkbinder, S. Tharpe

Sustaining  
SMPTÉ  
Member

**Fujinon Inc.**, 10 Highpoint Dr., Wayne, NJ 07470, (201) 633-5600, Fax: (201) 633-5216

**Booth:** 705

*Booth Personnel:* K. Motinabe

**Gefen Systems**, 6261 Variel Ave., #C, Woodland Hills, CA 91367, (818) 884-6294, Fax: (818) 884-3108

**Booth:** 1327

*Product Description:* M&E organizer system for sound effects libraries, CDJ Pro broadcasting and background music management system. Touch The Music picture database and music management system. Pioneer CACV 3000 auto changer, NSM 3101-AC CD changer.

*Booth Personnel:* H. Gefen, D. Perkins, J. Perkins, B. Sullivan, M. Yamashita

Sustaining  
SMPTÉ  
Member

**Genum Corp.**, P.O. Box 489, Station A, Burlington, Ont., Canada L7R 3Y3, (416) 632-2996, Fax: (416) 632-2055

**Booth:** 1404

*Product Description:* Genlinx serial digital chipset including encoder, driver, equalizer, reclocker, and decoder. High-performance analog ICs including video multiplexers, fast switches, buffers, mixers, and sync separator.

*Booth Personnel:* E. Fankhauser, P. Moore, B. Nielsen, K. Smith, P. Reiland

Sustaining  
SMPTÉ  
Member

**Gepeco International, Inc.**, 2225 W. Hubbard St., Chicago, IL 60612, (312) 733-9555, Fax: (312) 733-6416

**Booth:** 1517

*Product Description:* Audio and video cable products, breakout boxes, cable reels, cable assemblies, and connectors.

*Booth Personnel:* L. Smith, Sr., L. Smith, Jr., G. Geppert, S. Kusiciel, T. Harrington

Sustaining  
SMPTÉ  
Member

**Grass Valley Group**, 13024 Bitney Springs Rd., Grass Valley, CA 95959, (916) 478-3000, Fax: (916) 478-3187

**Booth:** 631

*Product Description:* New products including Sabre 4100 dynamic editing system, Model 1000 component digital production switcher; PC-based video-Designer™, Presto 200 character generator; and 30K CG with RGB frame grabber.

*Booth Personnel:* B. Natwick

**Hampton Intl. Communications**, 211 E. 43rd St., New York, NY 10017, (212) 682-7320, Fax: (212) 687-4730

**Booth:** P6

*Booth Personnel:* D. Blick

Sustaining  
SMPTÉ  
Member

**Harrison by GLW, Inc.**, 437 Atlas Dr., Nashville, TN 37211, (615) 331-8800, Fax: (615) 331-8883

**Booth:** 1614/1616

*Product Description:* The MPC console for motion-picture sound re-recording, dynamically automated and built with rack-mounted audio components serially linked to control surface.

*Booth Personnel:* M. Burns, T. Miller, G. Thielman

Sustaining  
SMPTÉ  
Member

**Hewlett-Packard Co. (SPD Div.)**, 1501 Page Mill Rd., Palo Alto, CA 94304, (415) 857-2060, Fax: (415) 494-1379

**Booth:** 1319/1321

*Product Description:* Ghost compensation simulator, IQ modulation test equipment, general-purpose test equipment.

*Booth Personnel:* C. Pedersen, A. Kovalick, G. Lowitz, L. Chroust, J. Minck

Sustaining  
SMPTÉ  
Member

**Hitachi Denshi America, Ltd.**, 150 Crossways Park Dr., Woodbury, NY 11797, (516) 921-7200, Fax: (516) 496-3718

**Booth:** 911

*Product Description:* VL-D500, D-2 digital VTR, SK-F3S EFP camera, SK-F300S studio camera, Z-One-A portable camera, FP-C10 portable camera, HR-C10 Hi-8 VTR, HV-C10 CCD camera.

*Booth Personnel:* A. Kobayasi, B. Munzelle, M. Matsuhasi, B. Tanabe, T. Delp, Y. Watanabe, R. Erickson, R. Melton, B. Shisler, J. Skupien, L. Enroth



**Ikegami Electronics (U.S.A), Inc.**, 37 Brook Ave., Maywood, NJ 07607, (201) 368-9171, Fax: (201) 569-1626  
**Booth:** 821

*Product Description:* High-quality color and black-and-white monitors; color cameras for ENG/EFP, studio; HDTV, CCTV, and medical imaging. The newest in the HC, HL, and HK camera series.

*Booth Personnel:* K. Fukuda, M. Osada, T. Calabro, B. Estony, J. Lynch, A. Keil, L. Riddle, J. Chow, R. Winchell, S. Wright, L. Moreth, M. Tsutsui, L. Donovan, K. Goetz, B. Moleczan, M. Narumi, S. Savitt, H. Takahashi, R. Johnson



**Image Video Ltd.**, 705 Progress Ave., Unit #46, Scarborough, Ont., Canada, MIH 2X1, (416) 438-3940, Fax: (416) 438-8465

**Booth:** 505

*Product Description:* High-density analog routing switchers, digital audio switchers, master control systems, digital audio storage/delay systems, custom or standard control systems, and a complete radio/television automation system.

*Booth Personnel:* A. Vanags, J. Barker, D. Russell

**In-Motion Magazine**, 1203 West St., Annapolis, MD 21401, (301) 269-0605

**Booth:** P4

*Booth Personnel:* S. LeHuray

**Innovision Optics**, 1318 Second St., Ste. 31, Santa Monica, CA, 90401, (310) 394-5510, Fax: (310) 395-2941

**Booth:** 307

*Product Description:* Exciting demonstration of tabletop technology. Specialty camera lenses, motion control systems, camera support equipment, fiber-optic lighting for shooting tabletop, miniatures, and products up close.

*Booth Personnel:* M. Centkowski, M. Hayler, K. Kristal, M. Skye, D. Gannon, R. Quintana, V. Brenno



**Iris Technologies, Inc.**, 692 E. Pittsburgh St., Greensburg, PA 15601, (412) 832-9855, Fax: (412) 832-8999

**Booth:** 739

*Product Description:* The Video Commander, a touch screen, programmable routing, switching system.

*Booth Personnel:* J. Salandro, R. Imam, M. Kasun, R. Cimba, L. Salandro, R. Firment, L. Riggle, R. Knupp, J. Connor

**ITVA Canada**, Box 1156, Adelaide St.

Post Office, Toronto, Ont., Canada M5C 2K5, (416) 733-3757, Fax: (416) 733-1741

**Booth:** P8

*Booth Personnel:* T. Gazer



**Jastram Filmtechnik**, Bergmannstr. 68, 1000 Berlin 61, Germany, (030) 6924426, Fax: (030) 6937876

**Booth:** 1333

*Product Description:* Moviecode, computer-controlled film numbering. Timecode numbering, keycode decoding for 70mm and 35mm picture and sound.

*Booth Personnel:* N. Jastram, C. Jastram

**Jensen Transformers, Inc.**, 10735 Burbank Blvd., N. Hollywood, CA 91601, (213) 876-0059, Fax: (818) 763-4574

**Booth:** 1406

*Product Description:* New high-performance record electronics to complement our retrofit playback amplifiers for Magna-Tech transports. Premium quality audio transformers, Jensen Twin Servo@ 990 Microphone preamp.

*Booth Personnel:* B. Whitlock, D. Roche, D. Hill



**JVC Canada Inc.**, 21 Finchdene Sq., Scarborough, Ont., Canada M1X 1A7, (416) 293-1311, Fax: (416) 293-8208

**Booth:** 1602

*Product Description:* Professional S-VHS editing systems. BR-5525U dynamic tracking VCR, professional S-VHS camcorders for ENG, broadcast monitors, studio cameras, wide aspect 16:9 NTSC playback.

*Booth Personnel:* C. Morrison, E. McGivern, J. Roos, R. Greenham, K. Izumiyama



**Leitch Inc.**, 920 Corporate Ln., Chesapeake, VA 23320, (804) 548-2300, Fax: (804) 548-4088

**Booth:** 829

*Product Description:* Serializers, deserializers, dual frame synchronizers, format conversion, Digibus. Serial routers, distribution, monitoring, master SPG (NTSC)/test generators. Analog distribution plus clock systems and timing devices.

*Booth Personnel:* G. Stephens, J. Cirincione, G. Newhook, D. Brown, D. Thompson, S. Moote, D. Jackson, G. Snell



**Lipsner-Smith Co.**, 4700 Chase Ave.,

Lincolnwood, IL 60646, (708) 677-3000, Fax: (708) 677-1311

**Booth:** 1503

*Product Description:* New ultrasonic film cleaning equipment for motion-picture labs and film-to-tape transfer facilities.

*Booth Personnel:* P. McNulty, T. Boyle, R. Short, J. Banks, T. Tisch



**Lorne Lapham Sales & Rentals Inc.**, 3774 Napier St., Burnaby, BC, Canada V5C 3E5, (604) 298-3224, Fax: (604) 298-2023

**Booth:** 1535

*Product Description:* Cartoni tripods, Anton Bauer power products, Chrosziel matte boxes and other production accessories. Cartoni dealerships now being established.

*Booth Personnel:* L. Lapham, P. Wells



**Lowel-Light Mfg. Inc.**, 140 58th St., Brooklyn, NY 11220, (718) 921-0600, Fax: (718) 921-0303

**Booth:** 1416

*Product Description:* Location lighting for professional film, video, and still photographers.

*Booth Personnel:* M. Seligman, D. Youngberg, A. Carter, T. Pearl



**Magna-Tech Electronic Co., Inc.**, 630 Ninth Ave., New York, NY 10036, (212) 586-7240, Fax: (212) 265-3638

**Booth:** 1211

*Product Description:* Magnetic recorders/reproducers, telecine followers, magneto-optical disk recorders/reproducers, high-speed studio projectors, film counters, time code readers/generators, ADR/Foley looping system.

*Booth Personnel:* E. Aguilar, F. Kur



**Management Graphics, Inc.**, 1401 E. 79th St., Minneapolis, MN 55425, (612) 854-1220, Fax: (612) 851-6159

**Booth:** 619

*Product Description:* Award-winning Solitaire image recorders used for special effects, animation, and film production work around the world. They support multiple film formats including 16mm, 35mm, and 65mm.

*Booth Personnel:* M. Smolen, J. Connolly, V. Hallberg, D. Berardi, J. Aneshansley, A. Thumim, S. Adcock

**MDG Inc.**, 5635 Christophe-Colomb, Montreal, Que., Canada H2S 2E8, (514)

272-6040, Fax: (514) 722-3229

**Booth:** 521

*Product Description:* Fog and smoke generators.

*Booth Personnel:* M. Gingras

### **Meret Optical Communications**

See listing under Acura Technology Group, Inc.



**Merlin Engineering Works**, 1888 Embarcadero, Palo Alto, CA 94303, (415) 856-0900, Fax: (415) 858-2302

**Booth:** 604

*Booth Personnel:* J. Streets



**Microtime, Inc.**, 1280 Blue Hills Ave., Bloomfield, CT 06002, (203) 242-4242, Fax: (203) 242-3321

**Booth:** 931

*Product Description:* Impact One, low-cost true 3D; Impact digital composite (D-2/D-3); Shape-Maker, creates custom 3-D shapes; Impact gouraud shading, motion blur, and additional object libraries.

*Booth Personnel:* J. Burger, M. Frange, D. Kinzinger, M. Podesla, L. Weiland, B. Wickland



**Miller Tripods Canada**, 1055 Granville St., Vancouver, BC, Canada V6Z 1L4, (604) 685-5331, Fax: (604) 685-5648

**Booth:** 1415

*Product Description:* Miller fluid heads and tripods for ENG, EFP, Lectrosonics Pro wireless mic systems, Petroff matte box, Cadex battery maintenance systems, ultralight Fresnel lighting kits.

*Booth Personnel:* R. Rajotte, J. Gin, A. Kramer, S. Vivian, B. Jones

**Mirage Systems Corp.**, One Routledge St., Unit 1, Hyde Park, Ont., Canada N0M 1Z0, (519) 641-2911, Fax: (519) 641-7839

**Booth:** 433

*Booth Personnel:* Kevin Taylor

**Miranda Technologies, Inc.**, 5695 St. Francois Rd., St. Laurent, Que., Canada H4S 1W6, (514) 333-1772, Fax: (514) 333-9828

**Booth:** 521

*Product Description:* SER-100 serializers and deserializers, SDM-100 digital-to-analog converter, SDM-200 digital encoder, DAC-100 4:2:2:4, DAC ENC 100 crystal digital NTSC encoder and more.

*Booth Personnel:* C. Tremblay, M. Auclair, E. Lurion, J. D'Anjou, T. Le Dinh, D. Lapiere



**Mole-Richardson Co.**, 937 N. Sycamore Ave., Hollywood, CA 90038-2384, (213) 851-0111, Fax: (213) 851-5593

**Booth:** 1604

*Product Description:* 20,000 W Molequartz "Big Mo"le Solarspot, HMI Molepar, 1200-W and 2500-W Molepar and Fresnel Quartz Solarspots, Quartz Softlites, AC power distribution systems, grip equipment.

*Booth Personnel:* H. Bell, J. Parker, L. Parker

**Montreux Intl. Symposium & Tech. Exhibition**, P.O. Box 97, Rue du Theatre 5, 1820 Montreux, Switzerland, 41 21 963-1212, Fax: 41 21 963-8851

**Booth:** P10



**Multidyne Electronics Inc.**, 244 Bayville Ave., Bayville, NY 11709, (800) 488-8378, Fax: (516) 628-1496

**Booth:** 1428

*Product Description:* TS-12 handheld NTSC test signal generator, TS-12-RM rack-mounted NTSC test signal generator with automatic bypass, VPDA-2 video pulse DA with 2500-ft equalizer for 8281 and RG-59U, VVG-compatible VDA-100 video DA with 4000-ft equalizer for 8281 and RG-59U.

*Booth Personnel:* V. Jachetta, J. Jachetta, C. Basile



**Nady Systems, Inc.**, 6701 Bay St., Emeryville, CA 94608, (510) 652-2411, Fax: (510) 652-5075

**Booth:** 130

*Product Description:* UHF and VHF wireless microphone systems, as well as communications products.

*Booth Personnel:* H. Zimmerman, J. Mericle

**Neotek Corp.**, 1154 W. Belmont Ave., Chicago, IL 60657, (312) 929-6699, Fax: (312) 975-1700

**Booth:** 539

*Product Description:* New Esprit console designed specifically for the demands of on-air broadcasting, production, and remote recording.

*Booth Personnel:* T. Der, T. Lay, C. Connolly, R. Poretti, F. Koka, K. Nelson

### **Neve**

See listing under Siemens Audio Inc.



**NVision, Inc.**, P.O. Box 1658, Nevada City, CA 95959, (916) 265-1000, Fax:

(916) 265-1010

**Booth:** 733

*Product Description:* Digital audio for video products which support the broadcast, post-production, and telecommunication industries.

*Booth Personnel:* B. Dayton, B. Amos, D. Joy, C. Meyer, S. Evans



**O'Connor Engineering Labs**, 100 Kalmus Dr., Costa Mesa, CA 92626, (714) 979-3993, Fax: (714) 957-8138

**Booth:** 1427

*Product Description:* Camera support equipment including fluid heads, tripods, dollies, and accessories.

*Booth Personnel:* C. Clayton, C. O'Connor, T. Brenetsen, J. Johnson, G. Burns



**Odetics Broadcast**, 1515 S. Manchester Ave., Anaheim, CA 92802-2907, (714) 774-2200, Fax: (714) 535-8532

**Booth:** 927

*Product Description:* A new cart machine using the SVHS format, as well as the TCS90 Cart Machine System and Break Tape Manager using the Betacam SP Format.

*Booth Personnel:* D. Lewis, B. Keegan, R. Baldock, B. Lewis



**Optical Disc Corp.**, 12150 Mora Dr., Santa Fe Springs, CA 90670, (310) 946-3050, Fax: (310) 946-6030

**Booth:** 310

*Product Description:* Model 610A/620A videodisc recording systems that record from any composite video input providing cost-effective in-house production of Laser-Disc standard videodiscs for single-copy or low-volume duplication.

*Booth Personnel:* J. Browne, R. Oshiro

**Oxberry, Inc.**, 180 Broad St., Carlstadt, NJ 07072

**Booth:** 619

*Booth Personnel:* J. Aneshansly



**Panasonic Broadcast & Television Systems Co.**, One Panasonic Way, Secaucus, NJ 07094, (201) 348-7000, Fax: (201) 348-7549

**Booth:** 1033

*Product Description:* D-3 1/2-in. composite digital video recorder, composite digital production switcher, digital processing cameras (Model AQ-20D and AQ-11D), multichannel cart system software, and

analog MII component VTRs Enhanced Series.

*Booth Personnel:* T. Moore



**PESA Chyron Group**, 265 Spagnoli Rd., Melville, NY 11747, (516) 845-2046, Fax: (516) 845-3895

**Booth:** 811

*Product Description:* PESA: System 5; D-2/D-3 serial digital router; CG4733 character generator. CHYRON: Infini!, MAX!, CODI, CENTAUR. CMX: Omni 1000, Omni 500, Cinema. AURORA: Liberty, Cornet.

*Booth Personnel:* I. Hersly, T. Beams, D. Spindle, R. Witko, L. Mincer, J. Shike, D. Rarey, B. McAlpine, S. Sloane, M. Edelman



**Peterson International Ent. Ltd.**, 1840 Pickwick Ln., Glenview, IL 60015, (708) 729-1010, Fax: (708) 729-5130

**Booth:** 1532

*Booth Personnel:* W. Pfeifer, M. Herman

**Phillips Business Information, Inc.**, 7811 Montrose Rd., Potomac, MD 20854, (301) 340-2100, Fax: (301) 424-4297

**Booth:** P2

*Product Description:* Satellite News, HDTV Report, Video Marketing News, Video Technology News, Home Media Technology News, Via Satellite Magazine, World Satellite Directory.

*Booth Personnel:* B. Pursell



**Pinnacle Systems, Inc.**, 2380 Walsh Ave., Santa Clara, CA 95051, (408) 970-9787, Fax: (408) 970-9798

**Booth:** 528

*Product Description:* Digital effects, graphics.

*Booth Personnel:* W. Werdmuller, M. Gray, A. Chopra, M. Jiricka



**Pioneer Communications of America, Inc.**, 600 E. Crescent Ave., Upper Saddle River, NJ 07458, (201) 327-6400, Fax: (201) 327-9379

**Booth:** 411

*Product Description:* Rewritable videodisc recorder.

*Booth Personnel:* Y. Ito, A. Parsons, R. Goldfarb, G. Tully, H. Evers



**Plastic Reel Corp. of America**, Brisbin Ave., Lyndhurst, NJ 07071, (201) 933-5100, Fax: (201) 933-9468

**Booth:** 1505

*Product Description:* 8mm-105mm film cores, video spot reels, VHS, 3/4-in. boxes and shippers, editing machine rentals and supplies. Archival containers for film and video. Microfilm reels, audio reels.

*Booth Personnel:* P. Baccarella, M. Lipson, P. Delmada, L. Lees

**Playback Magazine**, 366 Adelaide St., W., Ste. 500, Toronto, Ont., Canada, (416) 408-2300, Fax: (416) 408-0870

**Booth:** P5

*Booth Personnel:* K. Hamill

**Post Magazine**, 25 Willowdale Ave., Port Washington, NY 11050, (516) 767-2500

**Booth:** P13

*Booth Personnel:* Karen Cohen

**Professional Sound Magazine**, 23 Hanover Dr., #7, St. Catharines, Ont., Canada L2W 1A3

**Booth:** P14

*Booth Personnel:* Mark Bertrand

**Pylon Electronics, Inc.**, 2300 Victoria St., Lachine, Que., Canada H8S 1Z3, (514) 637-1186, Fax: (514) 636-1970

**Booth:** 1433

*Product Description:* Heavy-duty carrying cases for standalone and rack-mounted equipment.

*Booth Personnel:* J. Guay, D. Myles

**Q-TV**, 104 E. 25th St., New York, NY 10010, (212) 460-9050

**Booth:** 1427

*Product Description:* Computer prompter equipment for newsrooms, corporate television. On-camera prompting systems from 17-in. on-camera to 9-in. flat panel displays.

*Booth Personnel:* W. O'Connor



**Quantel Corp.**, 85 Old Kings Hwy. N., Darien, CT 06820, (203) 656-3100, Fax: (203) 656-3459

**Booth:** 817

*Booth Personnel:* P. Hansil, G. Grasso, M. Paull, D. Scammell, P. Owen

**Quebec Government Office**, 20 rue Queen Ouest, Toronto, Ont., Canada M5H 3S3, (416) 977-6060, Fax: (416) 596-1407

**Booth:** 521

*Booth Personnel:* S. Pattee

**Quebec Ministry of International Affairs**, 380 St. Antoine St. W., Montreal, Que., Canada H2Y 3X7, (514) 499-2159, Fax: (514) 873-1161

**Booth:** 521

*Booth Personnel:* A. Sirois

**RFX**, 910 Sycamore Ave., Hollywood, CA 90038

**Booth:** 619

*Booth Personnel:* R. Feeney



**Ross Video Ltd.**, P.O. Box 220, 8 John St., Iroquois, Ont., Canada K0E 1K0, (613) 652-4886, Fax: (613) 652-4425

**Booth:** 321

*Product Description:* Video production switchers: \*RVS216A - 16 inputs, true multilevel effects, \*RVS630 - 30 inputs, two 4-bus multilevel effects system, PGM/PST buses, DVE control.

*Booth Personnel:* J. Mills



**RTI-Research Technology Intl.**, 4700 Chase Ave., Lincolnwood, IL 60025, (708) 677-3000, Fax: (708) 677-1311

**Booth:** 1503

*Product Description:* Videotape cleaning, evaluating, and recycling equipment for all professional formats; dropout analyzers for analog and digital formats; high-production videotape degaussers; Lipsner-Smith ultrasonic motion-picture film cleaning equipment.

*Booth Personnel:* P. McNulty, T. Boyle, R. Short, J. Banks, T. Tisch



**Sachtler Corp. of America**, 55 N. Main St., Freeport, NY 11520, (516) 867-4900, Fax: (516) 623-6844

**Booth:** 1217

*Product Description:* Complete line of camera support for ENG, EFP, OB, studio, and broadcast. New line of lights, including tungsten and HMI in Fresnels up to 1.2 kW.

*Booth Personnel:* E. Falkenberg, M. Accardi, G. Kurz, T. Cribby, J. Thornton, P. Guterres

**San Lab Systems, Inc.**, 1000 Timmins Gardens, Pickering, Ont., Canada L1W 2L2, (416) 837-0347, Fax: (416) 831-8971

**Booth:** 1530

*Product Description:* P.T.R. partical transfer rollers designed to clean base and emulsion in all formats of motion-picture film.

*Booth Personnel:* R. Wayne, M. Black

**Scantex Laboratories, Inc.**, 39 Catherine Pl., Dollard des Ormeaux, Que., Canada, H96 1J7, (514) 626-8943, Fax: (514) 626-8943

**Booth:** 521

*Booth Personnel:* Valeriu Muscalu

**ScheduALL by VisuALL, Inc.**, 20377

NE 15th Ct., Miami, FL 33179, (800) 334-5083, Fax: (305) 443-0956

**Booth:** 1519

*Product Description:* Computerized facility scheduling and management system.

*Booth Personnel:* R. Legow, R. Quintero, G. O'Neill, D. Legow

**Shima Seiki U.S.A.,** 22 Abeel Rd., Cranbury, NJ 08512, (609) 655-4788, Fax: (609) 655-3989

**Booth:** 605

*Product Description:* High-resolution image manipulation and compositing system for the motion-picture film industry.

*Booth Personnel:* H. Estakharian, K. Yamamichi, M. Llewellyn, R. Lehigh, M. Beckman, H. Satake, Y. Hamada, K. Kotake

Sustaining  
SMPTÉ  
Member

**Siemens Audio Inc.,** 260 The Esplanade, Toronto, Ont., Canada M5A 1J2, (416) 365-3363, Fax: (416) 365-1044

**Booth:** 1303

*Product Description:* The AMS Logic 1/SPECTRA fully automated digital workstation for film sound and post-production, and the Neve 55 Series on-air console for broadcast and production.

*Booth Personnel:* J. Naccarato, G. Specht, L. Vogl, D. Ordon, G. Gruber, J. Gluck, A. Langley

Sustaining  
SMPTÉ  
Member

**Sigma Electronics, Inc.,** P.O. Box 448, E. Petersburg, PA 17520, (717) 569-2681, Fax: (717) 569-4056

**Booth:** 1520

*Product Description:* Terminal equipment for television systems, distribution, routing, timing, testing, transcode/encoding and decoding.

*Booth Personnel:* M. Lebhar, J. Spittle, J. Izydorczyk

**Skotel Corp.,** 3730 Matte Blvd., Brossard, Que., Canada J4Y 2Z2, (514) 444-2088, Fax: (514) 444-2083

**Booth:** 521

*Product Description:* Film keycode readers. Multistandard film-to-tape time code generators with user bit multiplexing and transfer logging output. Digital (D-1) VITC generators and readers.

*Booth Personnel:* S. Scott, P. Vitulli

**S.M. Technologies Inc.,** 295 Pelletier, Longueuil, Que., Canada J4L1G2, (514) 468-5253, Fax: (514) 448-1964

**Booth:** 521

*Product Description:* Time code equipment.

*Booth Personnel:* S. Marcotte

Sustaining  
SMPTÉ  
Member

**Snell & Wilcox,** 2454 Embarcadero Way, Palo Alto, CA 94303, (415) 856-2930, Fax: (415) 857-1434

**Booth:** 1125

*Product Description:* Full range of standards converters, digital D-1 switcher, test generator, and slow motion equipment.

*Booth Personnel:* P. McGoldrick, M. Waidson, Y. Gaung

Sustaining  
SMPTÉ  
Member

**Solid State Logic,** Begbroke, Oxford, England OX5 1RU, +44 865 842300, Fax: +44 865 842118

**Booth:** 1125

*Product Description:* 4000 series audio console. Screen sound digital audio workstation for film and video, Scenaria digital post-production mixing system.

*Booth Personnel:* M. Hume-Humphreys, P. Plaskitt, C. Carr

**Solutec Ltd.,** 4360 Iberville, Montreal, Que., Canada H2H 2L8, (514) 522-8960, Fax: (514) 598-7808

**Booth:** 521

*Product Description:* Automated broadcasting systems for commercial inserts. Traflink software program to link traffic to automation system.

*Booth Personnel:* G. Fortin, M. Beland

**Sonic Solutions,** 5440 N. Cumberland Ave., Chicago, IL 60656, (312) 399-9305

**Booth:** 539

*Product Description:* Computer-based random access digital editing system for film and video audio post-production.

*Booth Personnel:* K. Paulson, D. Gray, B. Doris, D. Fredericks, R. Poretti, K. Nelson, F. Koka

Sustaining  
SMPTÉ  
Member

**Sony of Canada Ltd.,** 405 Gordon Baker Rd., Willowdale, Ont., Canada M2H 2S6, (416) 499-1414, Fax: (416) 497-1774

**Booth:** 1011

*Product Description:* Demonstration of 2:1 and 4:1 compression technology (compared to the D-1 component digital recording), Flexicart, super motion Betacam, and I6X9 camera technology.

*Booth Personnel:* J. Clamen, L. Lavoie, N. Wong, P. Whittingham, P. Hess, D. Spears, K. Williams, J. Ibbotson, P. Winter, J. Simpson

**Sound Ideas,** 105 W. Beaver Creek Rd., Ste. 4, Richmond Hill, Ont., Canada, L4B 1C6, (416) 886-5000, Fax: (416) 886-6800

**Booth:** 1426

*Product Description:* Sound Ideas sound

effects library, including: the new General Series 6000, and Ambience, Hollywood, Wheels, and Lucasfilm Libraries. Also Sound Ideas production music library.

*Booth Personnel:* B. Nimens, M. Bell, G. Trafford, P. Alexander, M. Evans, C. Good, L. Bingley, D. Overington, D. Lukeziec, P. Hatanaka

Sustaining  
SMPTÉ  
Member

**Steenbeck Inc.,** 9554 Vassar, Chatsworth, CA 91311, (818) 998-4033, Fax: (818) 998-6992

**Booth:** 1227

*Booth Personnel:* D. Mack

Sustaining  
SMPTÉ  
Member

**Studer Revox Canada Ltd.,** 1937 Leslie St., Toronto, Ont., Canada M3B 2M3, (416) 510-1347 Fax: (416) 510-1294

**Booth:** 534

*Product Description:* Digital audio editing systems, CD recorders.

*Booth Personnel:* D. Dysart, P. Constantinou, N. Verrall

**Superedit Ltd.,** 6855 de l'Epee, Montreal, Que., Canada, H3N 2C7, (514) 278-6301, Fax: (514) 278-6099

**Booth:** 521

*Product Description:* Film editing tables.

*Booth Personnel:* P. Kerlik

**Synergistic Technologies, Inc.,** Three Parkway Center, Ste. 102, Pittsburgh, PA 15220, (412) 928-0448, Fax: (412) 928-0451

**Booth:** 302

*Product Description:* Services include design/installation of radio/television, broadcast, audio/video production facilities logistical/technical management of temporary broadcast/post-production systems for international news events; and fly-away satellite uplink services.

*Booth Personnel:* M. Albright, J. Luff, M. Valenti

**The Technology Council of Motion Picture-Television Industry,** 11684 Ventura Blvd., Ste. 243, Studio City, CA 91604,

**Booth:** P9

*Booth Personnel:* J. Hopkinson

Sustaining  
SMPTÉ  
Member

**Tektronix, Inc.,** Howard Vollum Park, P.O. Box 500, MS 58-699, Beaverton, OR 97077, (800) TEK-WIDE, Fax: (503) 627-1137

**Booth:** 905

*Product Description:* Vectorscopes, waveform monitors, signal generators and inserters, synchronizers, automated mea-

surement products, audio and RF products for studio, manufacturing, HDTV, transmission, and digital environments.  
*Booth Personnel:* A. Basso, D. Castles, D. Craig, R. Ferbrache, D. Fibush, L. Harrington, J. Lewis, A. Rodriguez, R. Stevens, B. Thompson

**Telcom Research**, A7-3375 N. Service Rd., Burlington, Ont., Canada L7N 3G2, (416) 336-2450, Fax: (416) 336-1487  
**Booth:** 418

*Product Description:* SMPTE/EBU time code generators, readers, character inserters; longitudinal and vertical interval; PC600 time code reader card; T911 time code processor, reader, generator, character inserter, translator.  
*Booth Personnel:* R. Ting, T. Banting, S. Mercer, F. Banting, B. Danylak



**Telecast Fiber Systems, Inc.**, 12 Military Rd., Worcester, MA 01609, (508) 754-4858, Fax: (508) 752-1520  
**Booth:** 1533

*Product Description:* Fiber-optic transmission systems for broadcast applications, including fiber-optic video/audio snakes for ENG and EFP.  
*Booth Personnel:* R. Cerny, E. Baker



**Telemetrics, Inc.**, 7 Valley St., Prospect Park, NJ 07506, (201) 423-0347, Fax: (201) 423-5635  
**Booth:** 421

*Product Description:* Triax/coax camera CCU for all broadcast/industrial CCD cameras. Robotic, pan/tilt heads, a versatile full size pan/tilt head with integral serial control receiver.  
*Booth Personnel:* A. C. Cuomo, A. E. Cuomo, A. Phelps, H. Soojian, A. Chan, D. Penna, R. Bacchieri, F. Cusano, R. Tamborini, M. Winfield

**Telescript Inc.**, 445 Livingston St., Norwood, NJ 07648, (201) 767-6733, Fax: (201) 784-0323  
**Booth:** 1618

*Product Description:* IBM and compatibles computer prompting program. In-house design and manufacture of software, hardware and all studio prompting equipment products. LAN interfaces. Line 21 interfaces for all encoders.  
*Booth Personnel:* D. Rogich, K. Pizzanelli, H. Frischkorn, N. Frischkorn, B. Swanson, J. Stringer, K. Hyde



**Trompeter Electronics Inc.**, 31186 La Baya Dr., Westlake Village, CA 91362-

4047, (818) 707-2020, Fax: (818) 706-1040

**Booth:** 1507  
*Product Description:* Coax, twinax (MIL-STD 1553B), triax connectors and cable. Coax and twinax patching systems. New twinax normal-through patch jack.  
*Booth Personnel:* D. Coleman, S. Gray, S. Knecht, G. Pomerantz



**TSM (Total Spectrum Mfg. Inc.)**, 709 Executive Blvd., Valley Cottage, NY 10989, (914) 268-0100, Fax: (914) 268-0113

**Booth:** 611  
*Product Description:* Television camera automation systems and robotics.  
*Booth Personnel:* R. Gonnelli, G. Rotondelli



**Ultimatte Corp.**, 20554 Plummer St., Chatsworth, CA 91311, (818) 993-8007, Fax: (818) 993-3762

**Booth:** 539  
*Product Description:* Ultimatte System 6, Ultimatte 45 and 300, bluescreen compositing devices, Ultimatte transcoder, memory head with CGI interface.  
*Booth Personnel:* P. Vlahos, D. Fellinger, L. Sauvg, D. Mowinckel, R. Ungerman



**VGV, Inc.**, 3700 NE 53rd Ave., Gainesville, FL 32609, (904) 372-0270, Fax: (904) 378-5320

**Booth:** 410  
*Product Description:* DX120 single M/E D-2/D-3 video switcher. D2500 D-2/D-3 layering video switcher. DX300 3 M/E D-2/D-3 video switcher.  
*Booth Personnel:* N. White, L. Buickel, C. Higgins, G. Hale, D. Schmidt

**Videomedia, Inc.**, 175 Lewis Rd., San Jose, CA 95111, (408) 227-9977, Fax: (408) 227-6707

**Booth:** 416  
*Product Description:* V-LAN compatible products for animation and video editing; Micron and VLC-32 keyboard editors; OZ edit software for Windows 3.1/Macintosh; new Animax and ALIX animation controllers.  
*Booth Personnel:* I. Weingold



**Videotek, Inc.**, 243 Shoemaker Rd., Pottstown, PA 19464, (215) 327-2292, Fax: (215) 327-9295

**Booth:** 602  
*Product Description:* Test and measure-

ment equipment, production switchers, sync and timing equipment, routing switchers, distribution amplifiers, audio program monitors, demodulators, color monitors.

*Booth Personnel:* P. Steyaert, P. Choi, E. Wahlberg, M. Everett



**Vinten Broadcast Inc.**, 44 Indian Lane E., Towaco, NJ 07082, (201) 263-4000, Fax: (201) 263-8018

**Booth:** 921  
*Product Description:* Full line of camera support equipment from robotic pedestals to standard studio pedestals, as well as lightweight Vision line of tripods.  
*Booth Personnel:* M. Seite, J. Wolfe, R. Polan, G. Sakata, A. Duncan, J. Dawson, R. Carr



**Vistek Electronics Ltd.**, Unit C, Wessex Rd., Bourne End, Bucks, England, SL8 5DT, (44) 628-531221, Fax: (44) 628-30980

**Booth:** 303  
*Product Description:* Vector and Vector VMC (Vector Motion Compensation) standards converters.  
*Booth Personnel:* T. Nowak, R. Robinson, P. Randall, B. Stopford, B. Mason, A. Behr

**Ward-Beck Systems Ltd.**, 841 Progress Ave., Scarborough, Ont., Canada M1H 2X4, (416) 438-6550, Fax: (416) 438-3865

**Booth:** 1527  
*Product Description:* MicroCOM II digitally controlled, programmable communications system, audio distribution amplifiers, television audio consoles, meter panels.  
*Booth Personnel:* E. Johnson, R. Ward, R. Beck, J. Fong



**Wheatstone Corp.**, 6720 VIP Pkwy., Syracuse, NY 13211, (315) 455-7740, Fax: (315) 454-8104

**Booth:** 1317  
*Product Description:* Audio consoles (computer-controlled, master air, stereo production); digital audio hard disk system, audio signal-processing gear, talent/talk system, studio furniture.  
*Booth Personnel:* R. Esparolini, J. Mehne, J. Kelly, D. Panaro, S. Johnson, Y. Sullivan

**William F. White Ltd.**, 36 Parklawn Rd., Toronto, Ont., Canada M8Y 3H8, (416) 252-7171, Fax: (416) 252-6095

**Booth:** 608