

# 116th Conference and Equipment Exhibit Four Seasons Sheraton, Toronto, Nov. 10-15



Toronto's Ontario Place with the Cinesphere, the famous triodetic dome theater.

The 116th Conference Technical Papers Program was already coming into shape at the beginning of summer through the efforts of Program Chairman **Maurice French** and his Program Committee. According to French, the Program, as of early July, is almost complete. The Committee is now at the point of evaluating submissions for positions in the sessions.

Following is the list of papers that have been received early on at headquarters and which are tentatively set for presentation at the Conference. The Advance Program, listing sessions, paper titles and authors, will be published in the September *Journal*.

## List of Selected Papers

The Development and Application of Metal-Halide Lamps for Color Filming and Television  
Utilization of High-Speed Photography for Blast Peak Pressure Measurements  
The Design of an Automatic Machine Assignment System  
Investigations of the Applications of Advanced Communications Satellites  
Computer Animation: NRC/NFB Collaboration  
Small Earth Stations for Broadcasting Satellite Systems

NTSC Signal Processing for the Philips Video Disc System (VLP)  
An Educational Technology Program for Canada  
An Automated Network Control Center  
The Use of Metal Halide Lamps on Exteriors  
The Design and Construction of CN Tower  
Image Quality With Reference to the Elimination of Particulate Contamination  
A Network Control System for Television Distribution by Satellite  
An Automatic Control System for the ORTF Microwave Networks  
Multiple-Antenna System — CN Tower  
An Experimental Broadcasting Satellite System Using 12-GHz Band  
Transmission of Two High-Quality (or Several Medium- or Low-Quality) Sound Signals Within the Line Blanking Interval of a Video Signal Especially in FM-TV-Satellite Systems  
Why Film?  
Acceleration Analysis of Crop Cutting by High-Speed Photography  
Digital TV Image Enhancement  
Our Shrinking Film Heritage  
An Automatic Editing System Using a Mini-Computer and Color Negative Film in Telecine  
Television Outside Broadcast Lighting Operations  
Photographic Measurement of Smoke Plume Heights from Industrial Stacks

## Equipment Exhibit

Exhibit space for the 116th Conference Equipment Exhibit went on sale in mid-July, just at the time this report was being written. According to Exhibit Chairman **Robert Dexter**, O.E.C.A., the Four Seasons Sheraton hotel has excellent exhibition facilities, with space for 78 booths.

Dexter said he expects heavy participation from both Canadian and American companies in both the motion-picture and television industries. Before space had been made available, a large number of inquiries had been received by Dexter and at SMPTE headquarters. If this early interest in the Exhibit is sustained, the 116th Exhibit should rank among the most interesting in recent years.

The Exhibit will start on Monday, November 11 at 5:00 p.m. with an Open House sponsored by the exhibitors. The Exhibit will run through Thursday evening, November 14. Admission to the Exhibit will be by the Conference registration badge, or by an exhibit pass which will be available at the Conference registration desk.

A directory of exhibitors, with company names and what will be exhibited, will be published in the September *Journal*.



## Midwest Film/Videotape Conference

The second annual Film/Videotape Conference will be held 20-21 September at the Marriott Hotel in Chicago under the sponsorship of the SMPTE Chicago Section. Among the distinguished guest speakers will be Delbert C. Black, Midwest Regional Director of the American Revolution Bicentennial Administration. He will discuss a number of

audio-visual productions being prepared for the 1976 Bicentennial and will screen one or more of the productions already completed. Other highlights of the program are expected to include a panel discussion on the State of the Art in Film moderated by Herbert Lightman, Editor of *American Cinematographer*, with panel members William Hedden and Kenneth Mason. The State of the Art in Videotape will be discussed by Mortin Dubin, International Director, Video Producers Assn., and Robert Pfannkuch of Bell & Howell. Wilton R. Holm, Vice-President and Executive Director, Research Center, Assn. of Motion Picture and Television Producers, will discuss The State of the Art in Immixture.

The luncheon speaker on 21 September will be Barry Goldwater, Jr., U.S. Representative from California. Following the luncheon Im-

mero Fiorentino will speak on Lighting for Film and Tape.

Further information is available from Byron L. Friend, Telecine Film Studios, Inc., 100 South Northwest Hwy., Park Ridge, IL 60068. Mr. Friend is Secretary/Treasurer of the Chicago Section.

## 11th International Congress on High-Speed Photography, London 1974

More than 100 papers will be presented at the 11th International Congress on High-Speed Photography to be held 15-21 September at the Imperial College, University of London. A few of the papers scheduled and their authors are:

F. Albe, P. Simgielski and H. Fagot

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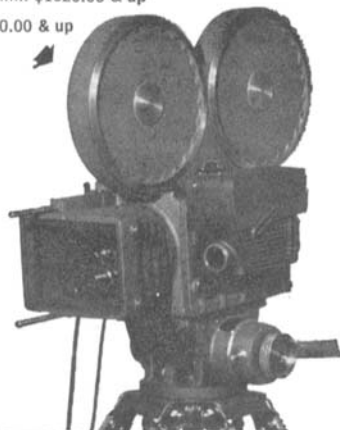


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(France), "Use of Holographic Interferometry for Quantitative Investigations of the Deformation of the Surface of a Material Impacted by a Projectile";

C. Allingham, P. J. Dooley, V. I. Little, S. French and S. Majumdar (United Kingdom), "A Flashtube for Ultraviolet With Less Than 20-Nanosecond Rise Time";

L. I. Andreyeva, M. M. Butslav, B. Z. Gorbunov, S. A. Kaidalov, B. M. Stepanov, A. M. Tolmachev and A. I. Chourbakov (USSR), "A Wide-Range Image Converter Streak Camera for Quantum Electronics Studies";

R. R. Bird, D. J. Bradley and W. Sibbett (United Kingdom), "Picosecond Photography of Properties of Non-Glass Laser Amplifiers for Laser Compression Experiments and Thermonuclear Fusion Studies";

L. N. Bykhovskaya, G. D. Dorfman, L. B. Dunayevskaya, V. S. Feldman, I. M. Gurevitch and L. S. Sokolenko (USSR), "Pulsed-Light Concentration for High-Speed Photographic Investigation of Low-Reflection Objects";

G. Clement, C. Loty and J. P. Roux (France), "The Design of a New Electron Optics for a Picosecond Streak Camera";

G. Eschard (France), "The Microchannel Plates: A Survey of the Possibilities of Channel Multiplier Arrays in Nano and Picosecond Detection and Imaging";

H. Fagot, P. Smigielski and G. Simon (France), "Visualization by High-Speed Holography of the Three-Dimensional Wake of a Projectile Launched at Mach 2";

G. B. Gillman and S. A. Ramsden (United

Kingdom), "Ultra High-Speed Framing Photographs of Laser-Produced Plasmas Using a Picosecond Optical Shutter";

M. Hugenschmidt and K. Vollrath (West Germany), "Optical and Laser-Interferometric Investigation of an Electron-Beam-Controlled CO<sub>2</sub> Laser";

R. Hadland, K. Hellbrough and A. E. Huston (United Kingdom), "Synchroscan: A Technique for the Photography of Repetitive Picosecond Pulses";

C. G. M. van Kessel (West Germany), "Ultrafast Streak and Framing Technique for the Observation of Laser-Driven Shockwaves in Transparent Solid Targets";

M. L. Landry (United States), "Multiple Cavity Laser Holography System";

A. J. Lieber, R. F. Benjamin, H. Dean Suthphin and G. H. McCall (United States of America), "Application of Ultra-Fast High-Resolution Gated-Image Intensifiers to Laser Fusion Studies";

C. E. Miller and H. E. Edgerton (United States), "Luminous Subjects Photographed with Auxiliary Light";

R. Oudin (France), "Numerical Determination of the Mass Attenuation Coefficient of an Object From a Series of Flash X-Ray Photographs";

B. Stenerhag, S. K. Handel and A. Kuthy (Sweden), "Generation of X-Ray Flashes of High Repetition Rate by Means of the Exploding Wire Technique";

H. R. Taylor, T. W. Lee and H. F. Swift (United States), "Moiré Fringe Technique Used to Study Plate Deformation";

T. Uyemura and M. Yonemura (Japan), "Coherence Effects on Holographic Interferometry"; and

R. S. Adrain, E. G. Arthurs, D. J. Bradley, A. G. Roddie and J. R. Taylor (United Kingdom), "Frequency Tunable Vacuum Ultraviolet Picosecond Pulses."

Further information about the Congress is available from Carlos H. Elmer, U.S. Delegate to the International Committee on High-Speed Photographic Congresses, P.O. Box 875, Scottsdale, AZ 85252.

#### International Broadcasting Convention

The 1974 International Broadcasting Convention will be held 23-27 September at Grosvenor House, London W1, sponsored by the SMPTE, Electronic Engineering Assn., Institute of Electrical and Electronic Engineers, Institution of Electrical Engineering, Institution of Electronics and Radio Engineers and the Royal Television Soc. In addition to the technical sessions, the convention will include an exhibit of the latest equipment in the field of broadcast engineering (both sound and vision). The display areas will include systems, studio and origination equipment, recording equipment, signal distribution including wire relay, transmitters and transposers, aerials, receivers and propagation, together with satellites and their associated systems.

A highlight of the convention will be a champagne reception held 23 September at the Banqueting House, Whitehall, an early 17th century building designed by Inigo Jones and noted also for a magnificent ceiling painted by Rubens.

The Sessions and Session Chairmen are:

Sessions 1 and 2, Studio Operation and Quadraphony — Chairman (both sessions), Joseph Flaherty (United States);

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Sessions 3 and 4, Signal Origination — Chairman (both sessions), Prof. Dr. R. Theil (Federal Republic of Germany);

Sessions 5 and 6, Signal Origination — Chairman (both sessions), D. H. Mills (Republic of South Africa);

Session 5A, Specialist Session on Ceefax Oracle — Chairman, K. I. Jones (United Kingdom);

Sessions 7 and 8, Satellites and Distribution — Chairman, (both sessions) L. Golding (United States);

Sessions 9 and 10, Recording, Storage and Replay — Chairman, P. Zaccarian (Italy);

Session 9A, Specialist Session on Service Planning — Chairman, R. A. Dilworth (United Kingdom);

Session 11, Transmitters and Transposers — Chairman, E. Castelli (Italy);

Session 12, Transmitters and Transposers — Chairman, H. Chemin (France);

Sessions 13 and 14, Maintenance Philosophy — (Chairman to be appointed); and

Session 13A, Specialist Session on Quadraphony — Chairman, R. S. Roberts (United Kingdom).

**The Information Film Producers of America**, P.O. Box 1470, Hollywood, CA 90028, will hold its 15th National Conference and Cindy Awards Competition 16-19 October at Vacation Village Hotel, San Diego, Calif. Highlighting the conference will be the presentation of the Eugene C. Keefer Memorial Schol-

arship to a deserving cinema student. The scholarship consists of a cash award plus service grants in the form of equipment rentals, laboratory processing and technical services.

Films competing for Cindy Awards are required to be on 16mm film, sound or silent. Videotape in 3/4-in U-Matic cassettes is eligible and student films may be submitted on super-8. There are 15 categories and awards will be made in each category — Art and Culture; Business/Industry/Organizations; Education; Environment and Ecology; Fund Raising; Health and Medicine; Public Relations; Public Service/Information; Safety; Sales; Science; Sports and Recreation; Travel; Experimental; and Student Films.

Further information about the conference and the Cindy Awards Competition is available from Malcolm M. Snyder, Public Relations Vice-President, c/o Adio Visual Services, Aetna Life & Casualty, 151 Farmington Ave., Hartford, CT 06115.

A course in **Photographic Chemistry** dealing with the chemistry and photographic properties of photographic emulsions and developer solutions will be held evenings at the Rochester Institute of Technology beginning in September, it was announced by Prof. Ronald Francis, Chairman, Photographic Science and Instrumentation Div., Rochester Institute of Technology, Rochester, NY 14623. Topics to be covered include formation and growth of silver halide crystals, chemical and spectral sensitization, addenda and coating, latent image theory, theory and application of conventional and diffusion transfer processing, and comparisons of silver halide and non-silver photographic systems. The course is intended to be at the upper undergraduate or first year graduate level. The laboratory work of the course will supplement the lectures and will deal with the relation of emulsion and developer composition to their properties, emulsion and process solution control, photographic actinometry and sensitometry, and non-conventional processing and materials.

**Sci/Com '74**, a science communication symposium sponsored jointly by the Canadian and American Scientific Film Associations was held 21-24 May in Rochester, N.Y. The speakers included producers of popular television science shows as well as producers of highly technical motion pictures of laboratory research techniques. Thirty-four papers were presented. The Luncheon Speaker was Wesley T. Hanson, Jr., Vice-President and Director of Research of Eastman Kodak Co. He said that Eastman Kodak Co. fully expects that 20% of film manufactured in the future could use emulsions made of non-silver materials with even a higher percentage of photographic paper using no silver. He noted that Kodak's "research and development efforts are in the broad field of electrophotography." He emphasized, however, that there was no expectation of the obsolescence of silver in the photographic process.

Headquarters of the American Science Film Assn. in the United States are at 7720 Wisconsin Ave., Bethesda, MD 20014.

**DuArt Film Laboratories**, 245 W. 55 St., New York, NY 10019, has concluded a series of seminars on the new Eastman 5247 and 7247 and flashing of EF Ektachrome original film. More than 300 filmmakers attended the seminars. Presentations included split screen com-

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parisons of 5247 to 5254 and of 7247 to 7254. Also shown were 16mm, 35mm and blow-ups. Prints made from normal and flashed Ektachrome Type 7242 camera original were compared. A comment by one of the attendees — "Very well done . . . first class all the way." Robert Smith, DuArt Vice-President noted that the seminars required a great deal of work and time to prepare and conduct, he added, "We were very pleased at the many technical questions that were asked, showing that cameramen and other filmmakers are more totally involved today in every aspect of filmmaking than ever before."

**The International System of Units** (Price \$3.00) and the **Metric Practice Guide** (Price

\$4.00) are available from the Canadian Standards Association, 178 Rexdale Blvd., Rexdale, Ont., Can. M9W 1R3. Both Standards were prepared by the Canadian Standards Association with the approval of the Standards Council of Canada. In view of the increasing use of the metric system in science, commerce and industry and the likelihood of imminent conversion, these two Standards are of considerable importance in terms of convenience of use and accuracy of information.

*The International System of Units* (CSA Standard Z234.2-1973) provides definitions and explanations of International Units, including the historical background. Twelve tables show names, symbols and values in easily understood form. The 29-page booklet con-

tains, also, three appendixes and an alphabetic index.

*The Metric Practice Guide* (CSA Standard Z234.1-1973) was prepared as a guide for the application of the International System of Units (SI). Information is included on the SI units, recommended application of multiples and sub-multiples of the units, conversion factors which relate the SI and the yard/pound systems, conversion and rounding of data and dual dimensioning. Definitions of the base units, supplementary units and derived units of the International System of Units are given in an appendix.

**Metric Conversion in Engineering and Manufacturing**, a 136-page report on a meeting co-hosted by The American National Metric Council and the National Bureau of Standards 12-13 December 1973 in Gaithersburg, Md., is available from the American National Metric Council, 1625 Massachusetts Ave., N.W., Washington, DC 20036 at a price of \$10 for single copies (\$7.50 for subscribers to ANMC). The body of the report is an edited transcript of discussions held during the meeting. An extensive appendix includes formal policy statements by 15 leading companies and related conversion materials. Subjects covered or touched upon during the discussions include dual dimensioning, rounding methods, use of the computer, timing, vendor interface and standards.

**The 1973 Survey and Analysis of Educational Media Producers Sales** is available from Educational Media Producers Council of the National Audio-Visual Assn. (NAVA), Fairfax, VA 22030, at a price of \$42 (special prices are available to EMPC members and educational institutions). The survey, conducted for EMPC by an independent market research firm, shows that total sales of non-textbook instructional materials rose to \$227.2 million in 1973, a 2.4% increase over 1972. The information contained in the *Survey* was gathered from more than 200 audio-visual producers.

The single largest percentage gain shown in the survey was made by multi-media print-oriented kits containing some audio-visual components — sales were increased by 31% over 1972 sales. Audio-visual-oriented kits increased sales by 9%. The single largest dollar gain was made by filmstrips with cassettes which increased sales by \$6 million over 1972. For the first time, sales of sound filmstrips (record and cassette) exceeded sales of 16mm color films, rising by 12% to \$49.4 million. Cassettes accounted for 88.5% of all prerecorded tape sales in 1973 and for 50% of sound filmstrip sales.

The *1973 Survey* contains 20 pages, including 13 Tables and is arranged for easy comparison of trends in previous years.

**The Cable Television Technical Advisory Committee** to the FCC (CTAC) has announced publication of its 1973 Annual Report outlining accomplishments of the committee through 1973 and setting goals for 1974. A copy of the report is available upon request to the CTAC Office, 1629 K St., N.W., Washington, DC 20006. The current priorities of the CTAC include, among others, cable television receiver performance specifications, including close coordination with the EIA Cable Television System Committee study and recommendations for a "cable coordinated receiver"; and review of methods and measure-

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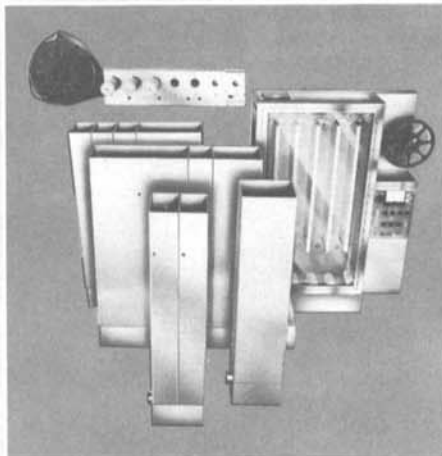
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ments for cable system signal leakage (unwanted radiation from cable systems) and field testing of alternate methods that may provide additional protection in this area. Chairman of the CTAC Executive Committee is Hubert J. Schlafly; the Executive Secretary is Armig G. Kandoian.

**Location San Francisco**, a 24-page directory for film producers, is available from the Film

Coordinator, San Francisco Convention and Visitors Bureau, 1390 Market St., San Francisco, CA 94102. The directory lists names and addresses of production facilities (including equipment rental companies, screening services, sound recording studios, and other facilities), talent agencies, guilds and unions, historical sites and other items of general interest as well as information specifically for film producers.

## New Members

The following members have been added to the Society's rolls since the March 1974 *Directory For Members*. Also listed are those regretfully reported as deceased since then. The designations of grade are the same as those used in the *Directory*. An up-to-date list of the *Sustaining Members* appears on the outside back cover of each month's *Journal*. The members listed below complete the Society's roll as of June 12.

The *Directory For Members* shows the geographic membership distribution within each Section.

Honorary(H)	Life Fellow(LF)	Life Member(LM)	Fellow(F)
Active(M)	Associate(A)	Student(S)	

*Deceased:*

Oscar Chamberlin Burritt(M)	Daniel F. Haworth(M)
Philip Martin, Jr.(M)	Hugh C. Oppenheimer(A)
Leonard Tillman(M)	

**ATLANTA SECTION**

**Comstock, David G.**, Field Engr., Communications Prod. Div., Tektronix, Inc. Mail: 2031 Glenbrook Dr., Tucker, GA 30384 (A)  
**Hudgins, Donald H.**, Vice Pres. Prod., Cinetron Computer Systems, 6700 Northeast Expressway, Norcross, GA 30071 (M)  
**Marcot, Guy C.**, Vice Pres., Commercial Dev., Orrox Corp. Mail: 700 N. 9 St., Opelika, AL 36801 (M)  
**McClain, Birdle F.**, Self Empl., B. F. McClain Productions, P.O. Box 2547, Asheville, NC 28801 (A)  
**Nottingham, Eugene P.**, Vice Pres., Cinetron Computer Systems, Inc. Mail: 934 St. Charles Ave., Atlanta, GA 30306 (M)  
**Oberlies, Robert H.**, Engrg. Section Head, Sperry Rand Corp. Mail: 6103 Rickwood Dr., Huntsville, AL 35810 (M)  
**Vaughn, Charles**, Pres., Cinetron Computer Systems, Inc. Mail: 2665 Regency Dr., E., Tucker, GA 30084 (M)

**AUSTRALIA SECTION**

**Allen, Ernest**, Supvr., Maintenance, Amalgamated Television Services. Mail: 37 Yalding Ave., North Rocks, Sydney 2151, Australia (A)  
**Guinan, John A.**, Medical Practitioner-A-V Committee, Self Empl. Mail: 8 E. Parade, Eastwood 2122, Australia (A)  
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