

Addenda for Reports: 112th Conference/High-Speed Photography

For (1) "A Report on the 112th Technical Conference" by Thomas E. King, *Journal*, pp. 101-111, February 1973; and (2) "A Report on the 10th International Congress on High-Speed Photography" by Carlos H. Elmer and L. L. Endelman, *Journal*, pp. 176-187, March 1973; these photographs reached the Society too late for February and March publication. — Ed.



The three photographs above were made in Moscow when D. A. Robertson, as a representative of the Society, made the official presentation of three awards announced at the 112th Conference. (See p. 107 of "A Report on the 112th Conference.") Left: Prof. Boris Konoplev receiving the Special Recognition Award for outstanding contributions to motion-picture technology. Center: Prof. Victor Komar receiving the Special Recognition Award for outstanding contributions to motion-picture technology. Right: Michael Z. Wysotsky, new Fellow of the Society, receiving certificate.



The two photographs above were made in Nice, France, at the 10th International Congress on High-Speed Photography. (See pp. 176 and 178 of the Report.) Left: Dr. M. Ya Schelev, of the Soviet Union, receiving the Hubert Schardin Gold Medal from Dr. Rudi Schall. Right: Dr. Rudi Schall (1) presenting a Special Schardin Medal to John H. Waddell.

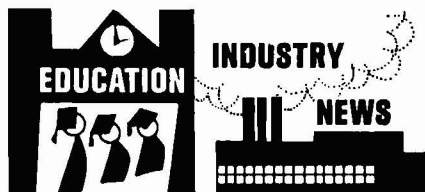


Photo-Instrumentation Film Available From SMPTE

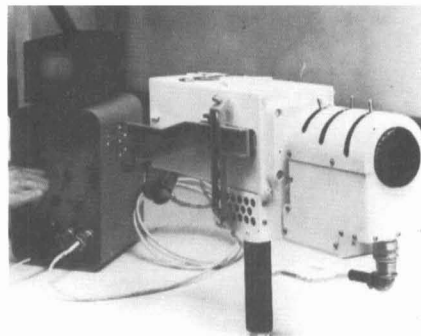
Man's Control Over Time, a 16mm, 500-ft film in sound and color on the history and applications of high-speed photography, is available from SMPTE Headquarters at a rental of \$7.50, plus postage. The film presents basic information on high-speed photography and photo-instrumentation.

Plans for updating and adding to the film have been discussed by the Photo-Instrumentation Committee under the chairmanship of Charles Jantzen. High-speed studies in 16mm of machinery in operation, car crashes, explosions, etc., would make useful additions to the film.

Anyone who can provide such footage or who is interested in updating the film is invited to communicate with SMPTE Headquarters, or with Mr. Jantzen at 190 Alps Rd., Wayne, NJ 07470, or with Mr. A. Earl Quinn, Eastman Kodak Co., Bldg. 35, Kodak Park Works, Rochester, NY 14650.

All You Ever Wanted to Know About Color But Were Afraid to Ask is the subject of a course to be given Wednesday evenings (7:15 to 10:00 P.M.) 19 Sept. to 16 Jan. at the University of Southern California. The course is offered through the cooperation of the Society's Educational Advisory Committee and the USC Division of Cinema. It will cover the many different types of color systems and materials presently available and will discuss the equipment and techniques applicable to each system. The course is non-credit. The enrollment fee is \$90 including the textbook. Further information is available from USC Division of Cinema, University Park, Los Angeles, CA 90007.

Tiny Camera Beams Skylab Pictures to Earth

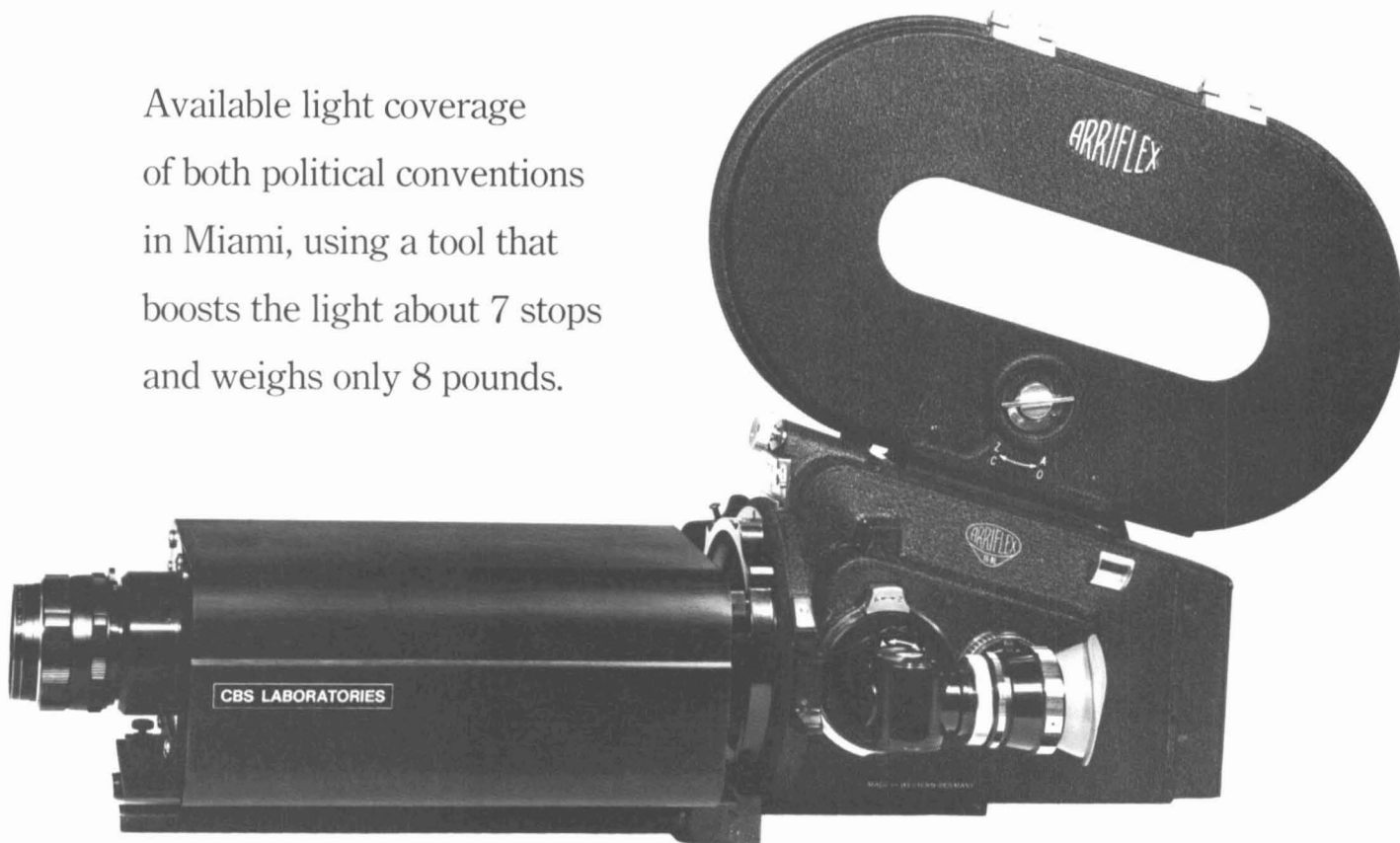


TV camera on board Skylab. The monitor at the left shows the astronauts the pictures being transmitted back to earth. The camera shown here is being tested, prior to launch, in Westinghouse Electric Corp.'s laboratory.

Skylab, the laboratory in space, the "home" of a three-man team where extraordinary scientific experiments are

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being carried on in spite of an initial setback following the launching on 14 May, is now "up there" and information is being beamed to earth by means of a tiny color TV camera.

Following the launching of Skylab, a deployment failure of its solar power wings forced a delay in the astronauts' rendezvous with the space station. However, the astronauts reached Skylab safely, made some repairs, consisting mainly of placing a sky umbrella between Skylab and the sun, and shortly thereafter were able to set up housekeeping in Skylab and begin sending a televised record of their experiences back to earth.

The space station's orbital workshop contains 12,700 ft³. Experiments to be car-

ried on will include studies of the effect of weightlessness on the human body, with the astronauts serving as the "human guinea pigs." One of the experiments will investigate the problem of "weighing" objects—including the human body—where there is no gravity. In such a situation, mass instead of weight is measured by means of a special chair restrained by springs and made to oscillate by a known amount of force. The force, the distance the chair moves and the time it takes to complete a cycle of oscillation are used to calculate the mass of the object in the chair (the astronaut).

The little color TV camera that will link the home TV tube with life aboard Skylab is a product of all that has been learned

about space video during the Apollo missions. The 13-lb 7-oz unit was developed by the same people at Westinghouse Electric Corp. who developed the cameras used on the first moon mission and the first color TV from space. The new camera resembles the earlier cameras, but inside it has been entirely redesigned. The most significant change is the use of some advanced electronic components called multi-hybrid packages containing up to nine layers of microminiature transistors, resistors, amplifiers and capacitors in an epoxy block as solid as wood and not much larger than a book of matches. Use of the multi-hybrid packages enabled the engineers to increase the amount of circuitry in the cameras by 50 per cent with no sacrifice in size.

In addition to providing a wider range of shades and hues, the new circuitry enables the camera to transmit a vertical interval test signal that can be observed on an oscilloscope in Mission Control. The signal helps the controllers determine conditions on the communications network that is used to transmit television from tracking stations around the world back to the Manned Spacecraft Center in Houston. The camera's 30-ft cable can be plugged into any of the six outlets in the space station complex. Three are in the orbital workshop, one in the airlock module, one in the multiple docking adapter and one in the command module.

The remote-controlled lens assembly weighs 3 lb 8 oz and is interchangeable with the smaller lens unit normally used inside Skylab. A universal clamp enables the astronauts to snap the camera into the gridwork that forms the floors and ceilings of the orbital workshop. The lens was made in France by Angenieux for Westinghouse, which specified a lens with fine and delicate optical elements, but rugged enough to withstand the buffeting of lift-off, built to tolerances in ten-thousandths of an inch but designed so that it can expand and contract in the extreme highs (in sunlight) and lows (in shadow) of temperatures in space without hampering its operation. The lens was made to be impervious to the corrosive effects of human-generated humidity in Skylab and built with a better match of materials to operate in the hostile space environment outside the space laboratory. The new lens helps to eliminate the ghostly halo often seen surrounding TV images of astronauts in space.

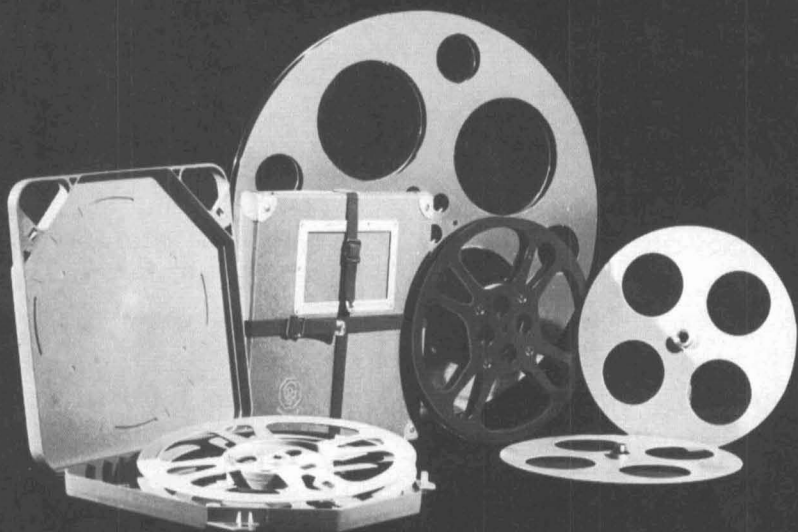
The variable-focus zoom lens on the camera has a focal length ranging from 25mm to 150mm and provides a diagonal field of view from 54° to 9°. Behind the lens a special burnproof electron-bombarded silicon imaging tube converts the visible images into electrical signals and amplifies them many times before re-converting them to even more distinct visible images. The imaging tube was developed in the Westinghouse Electron Tube Div. in Elmira, N.Y. The company also provided portable high-intensity fluorescent lighting units.

The camera uses the field sequential imaging technique, i.e., a spinning wheel with color filters in three colors which passes in front of the imaging tube at 600 r/min. Red, blue and green pictures are produced and transmitted to the ground in sequence where they are reconstituted to

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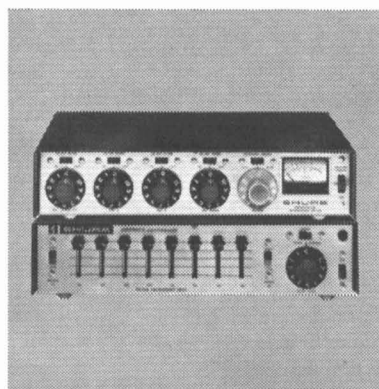
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produce a multi-colored picture on the screen. The camera takes pictures at a rate of 30 frames/s with 525 scan lines per frame. The astronauts have their own videotape recording equipment on board for delayed transmission of TV replays from space.

CINE (Council on International Nontheatrical Events), 1201 Sixteenth St., N.W., Washington, DC 20036, has announced a list of 153 documentary, educational and short subject films chosen to represent the United States in international competition abroad during 1973. The winners were selected from 417 entries. CINE is starting its sixteenth year as the organization which selects official United States entries

for international film and television events abroad. For the last two years, CINE has been screening films twice a year. Entry applications for fall screenings are available from CINE and entries will be accepted until 15 Aug.

CINE also announced that nine United States films have won awards in four recent major international film festivals. Among the nine films, one amateur film, *Wild Water*, produced by Jon Fauer, was awarded a Certificate of Participation at the XXIV Sports Film Festival at Corina, Italy.

Professional films selected by CINE for international competition receive the CINE Golden Eagle certificate; the amateur films receive the CINE Eagle.

A Motion Picture Seminar jointly sponsored by SMPTE, Memphis State University and Motion Picture Laboratories, Inc., 781 S. Main St., Memphis, TN 38101, will be held 21 July at Memphis State University Center. The keynote speaker will be Anthony Frothingham, General Manager, Motion Picture and Education Markets Div., Eastman Kodak Co. Others on the program will be Fred Freed, of NBC, who will speak on "The Evolution of the Television Documentary"; Al Aubiel, of Walt Disney Productions, who will speak on "Filming at Walt Disney World"; and Anton Wilson of Anton/Bauer Co., who will speak on "Crystal Sync."

Mr. Freed, a noted documentarian, has won numerous awards for his films, including seven Emmy Awards, two in 1973 for *The Billion Dollar Weapon* and *The Blue Collar Trap*. Mr. Wilson is a columnist for *American Cinematographer*.

Other events on the program will include a demonstration of the Kodak Super 8 Videoplayer and a demonstration of the new Eastman color negative II film 7247 for the camera and Eastman Ektachrome print film 7390. Demonstrations will be made by the MPL staff. There will also be demonstrations of videotape to film transfers and exhibits of cameras and other equipment.

The 14th National Radio and Electronics Engineering Convention will be held 20-24 Aug. at the Convention Centre in Melbourne, Australia. About 100 papers will be presented covering a wide variety of subjects in the field of electronics. There will be papers describing new work as well as papers on state-of-the-art and tutorial subjects. Electronic equipment from Australian and overseas manufacturers will be displayed in the exhibition covering 30,000 ft². Visits have been arranged to a number of interesting places. Further information is available from the Honorary Secretary, 14th National Radio and Electronics Engineering Convention, c/o Conventions Manager, Ansett Airlines of Australia, Box 727, Melbourne, Victoria, Australia 3001. The Ansett Airlines has been appointed the official domestic airline and travel consultants for the convention. There is an office at 1 Rockefeller Plaza, New York, NY 10022. There are, also, offices in Chicago and Los Angeles.

The Information Film Producers of America will hold its 1973 National Conference 31 Oct. - 4 Nov. in Palm Springs, Calif. The conference will include presentations by professionals from the nontheatrical and audio-visual fields as well as from Hollywood. The traditional Cindy Awards banquet during which outstanding nontheatrical films are honored will be held 3 Nov.

Photokina 1974, described as a World Fair of Photography, will be held 27 Sept. to 3 Oct. 1974 in Cologne, Germany. The format has been changed and in the future Photokina will be "run as a trade show for trade visitors only," the announcement stated. Among special events planned for the 1974 Photokina to "increase its information value for trade visitors," will be discussions on cinema and television tech-

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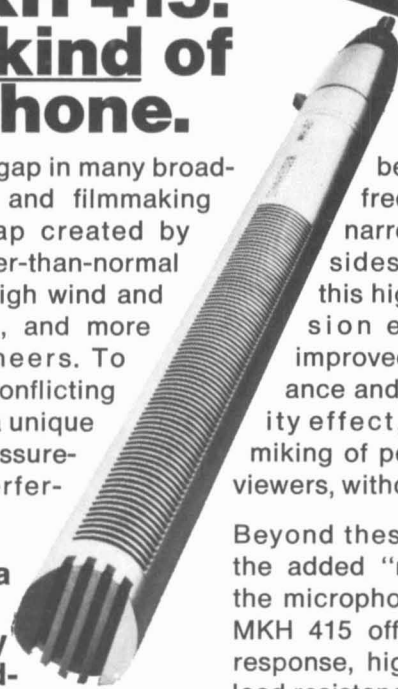
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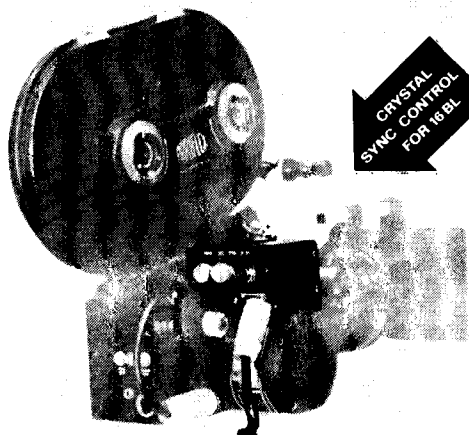
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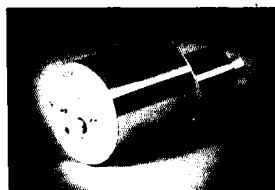
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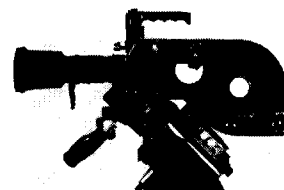
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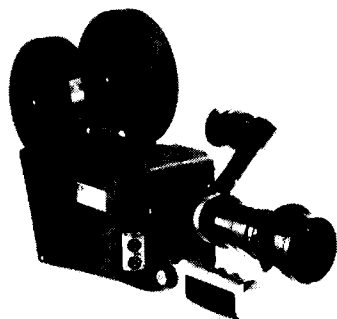


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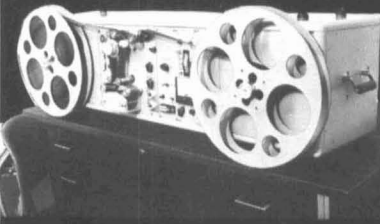


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Universidad Simón Bolívar, in cooperation with the professional electrical engineering society of Venezuela and the local section of the Institute of Electrical and Electronic Engineers, has produced a series of videotaped lectures on television systems measurements. The speaker is Charles Rhodes of Tektronix, Inc., and the producer is Enrique Tejera R., Chief Engineer of the Audio Visual Unit of the University. The tapes were recorded during a three-day visit of Mr. Rhodes to Venezuela. Some five hours of program cover the following subjects: (1) Noise Measurements in Television; (2) Measurements of Linear Distortions—K Factor Measurement, Parts I and II; (3) Measurements of Nonlinear Distortions (Parts I and II); (4) The Return Loss Bridge; and (5) The Vertical Internal Reference Signal. Both the theory and the actual measurements are shown on the tapes. The tapes are in English with a running translation in Spanish on the second audio channel. The tapes are available for use at SMPTE Section meetings, the announcement stated. Requests for the tapes or further information about them should be made to Universidad Simón Bolívar, Prof. Enrique Tejera R., Unidad de Medios Audio-Visuales, Box 5354, Caracas, Venezuela.

Cable Television and Education: A Report From the Field, a 51-page book has been published by National Cable Television Assn., 918 16th St., N.W., Washington, DC 20006. The book, divided into eight chapters plus an Introduction reports on present events and relationships affecting the use of cable TV in education. The Introduction notes that "Wiring a school or campus for cable offers educators certain immediate advantages. Overall television reception is improved . . . Often cable systems are able to carry more than one educational . . . station thereby increasing the educational programming available to both the school and the community."

Examples of students making their own programs for showing on cable TV are included in Chapter 4 on "Do-It-Yourself Television." The report was written by Anne Hanley of the NCTA Public Affairs staff under the auspices of the NCTA Educational Cable Television Committee. The book includes a bibliography of publications on cable TV and education, a glossary of cable TV terms and excerpts from the Federal Communications Commission rules on educational cable channels. Individual copies of the book are available without charge from the publishers at the address above. The publishers note that there will be a charge for orders of more than one copy.

The TV-Film Filebook is a directory providing extensive information on the Canadian television and film industries. Published annually, the 1973 edition is available from the editorial offices at 2533 Ger-

rard St. East, Scarborough, Ont., Canada, at a price of \$3.00 a copy (additional copies are priced at \$2.00). Editor of *Filebook* is Arthur C. Benson.

There are some 30 separate listings in the directory including such useful information as the whereabouts of motion-picture laboratories, including addresses, telephone numbers and brief descriptions of the services offered; television stations; cable TV systems operating in Canada (the information includes the address, name of manager and number of subscribers for each system); unions and guilds; associations and societies; government film offices; and other helpful listings.

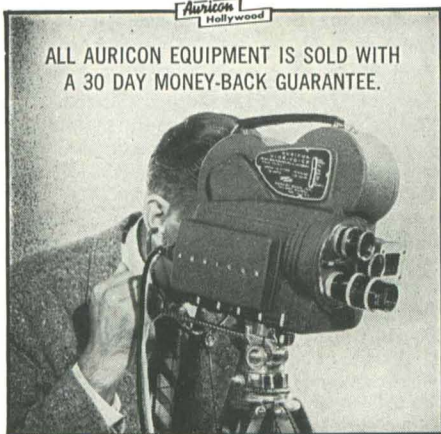
Hope Reports Education and Media 1972, the second volume in the Hope Reports in this year's annual series has been announced by Hope Reports Inc., 58 Carverdale Dr., Rochester, NY 14618. The new report contains a study of parochial and private schools which finds that spending by private schools for audio-visual programs increased 55% during the 1971-72 school year over that reported for the previous year. Audiotape cassettes have become the most popular item of audio-visual equipment used in private schools and the overhead projector is the most used of the projectors. One of the more surprising findings was the amount of student filmmaking going on in private schools. About one out of every 24 pupils made a film during the 1971-72 school year. Parochial schools spend \$3.09 per pupil for audio-visual materials, which is a dollar less than the sum spent by private schools and about \$1.75 less than public schools. In the Catholic schools, the filmstrip projector ranked as the most popular medium, followed by the overhead projector and the record player.

Technology Assessment and Forecast, the initial publication of the U.S. Department of Commerce, Office of Technology Assessment and Forecast, as the result of a new information program established under the office of the Assistant Secretary for Science and Technology. The program's data base draws upon information contained in the U.S. Patent Office's file of more than 11 million U.S. patent documents. Each year about 250,000 documents are added. As new technologies are developed the entire file is scrutinized and new categories, called subclasses, are created to reflect the changes. It is a basic premise of the program that the changing patterns of patent activity within the subclasses, now numbering more than 85,000, can be an accurate indicator of technological activity throughout the world.

The initial 123-page publication contains sample reports on specific areas of technology. A typical report is on Light Sensitive Compositions Containing Silver Compounds. The report notes that "The technological grouping of light sensitive compositions containing a silver compound was considered to be of interest because currently 57% of the patents in this grouping reflect the work of non-domestic inventors and this is anticipated to rise to 75% within the next few years."

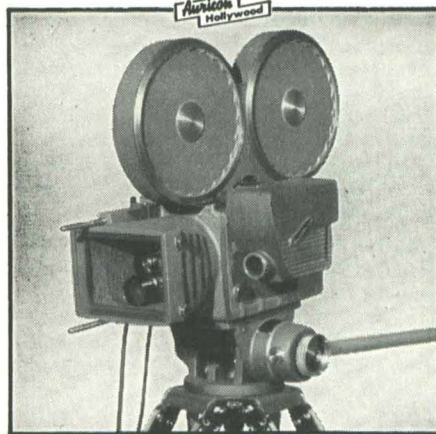
Further information about the publication is available from Alfred C. Marmor, Office of Technology Assessment and Fo-

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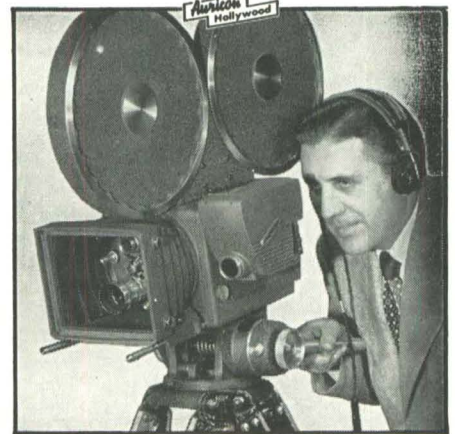


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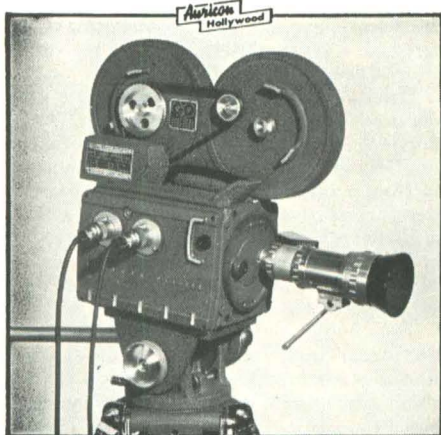
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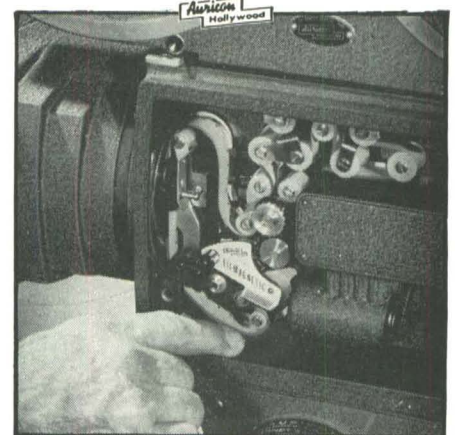
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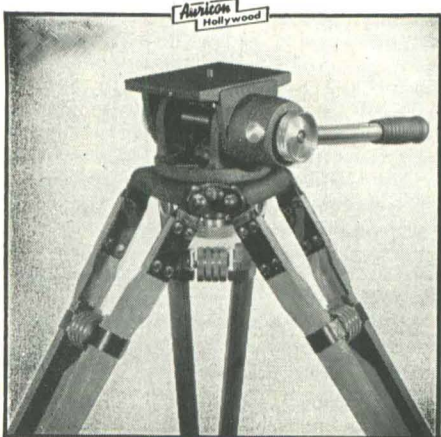
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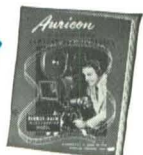


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recast, U.S. Patent Office, Washington, DC 20231.

The Teddy Award for outstanding achievement during the year was awarded to Carbons, Inc., 10 Saddle Rd., Cedar Knolls, NJ 07927, by the Theatre Equipment Assn. The award was presented to Frank Riffle, Carbons, Inc., President, during the second annual TEA conference in Mexico City. The award is presented annually to the TEA manufacturer who exemplifies the "progressive principles of product development and provides the dealers with service and up-to-date technical and sales information . . ."

Videoconference Networks Inc., 277 Park Ave., New York, NY 10017, a service of Direct Video Corp., has been created to design and produce conference television for many different requirements. The organization has pioneered the use of satellites for international business telecasts. Video conferences are private, interactive meetings held in many different locations simultaneously and linked by television circuits. Frequently, theater-size screens are used to give large groups a feeling of closeness and intimacy. Videoconference Networks provides all aspects of private television networks from program production to distribution and presentation.

Jonathan W. Flint has been appointed General Manager of CCI of Philadelphia, 1909 Buttonwood St., Philadelphia, PA

19130. Prior to joining CCI Mr. Flint was a Technical Sales Representative with Williams, Brown & Earle Inc. of Philadelphia and Sales Manager with Riverside Film Laboratories Inc. In his new post he will be responsible for rental, sales and market development for CCI of Philadelphia as well as management of the Buttonwood Film Center at the same address. Film Center facilities include studio, sound, animation, film editing and screening. CCI of Philadelphia both rents and sells professional motion-picture and audio-visual equipments.

James J. Johnson, Vice-President, Marketing, RCA Corp., has been given the responsibility for coordination of RCA's SelectaVision home video player/recorder business. He will supervise the development of the SelectaVision program and will make sure that all SelectaVision activities, both hardware and software, within the corporation are fully coordinated. In addition he will continue as head of RCA Corp.'s Corporate Marketing activities.

Stewart Deitch has been elected Financial Vice-President and Treasurer of Du Art Film Laboratories, Inc., 245 W. 55 St., New York, NY 10019, it was announced by Irwin Young, Chairman of the Board. Mr. Deitch was formerly Comptroller of DeLuxe General Inc.; he had also served as Vice-President of Business Affairs for Radiant Laboratory, Inc., before joining Du Art.

Karl LaRoche, Jr., has been appointed to

the post of Assistant to the President of Continental Film Productions, Chattanooga, Tenn. Mr. LaRoche was formerly with RCA Corp. where he gained an extensive background both in motion-picture production and in the aerospace/missile industry.

Jack P. Hall has been appointed Vice-President of Filmline Corp., 43 Erna St., Milford, CT 06460. He was formerly President of Producers Service Corp. in Glendale, Calif. He had also been West Coast Technical Director and Director of Applications Engineering for DeLuxe General Laboratories in Hollywood. In his new post he will assist in the expansion of Filmline's product lines, re-entry into the photofinishing market and in the move to Filmline's new plant facilities in Milford.

Harry Larson has been appointed Product Manager of the new Product Div. established by DeLuxe General, 1546 North Argyle Ave., Hollywood, CA 90028, it was announced by Robert T. Kreiman, President. Mr. Larson has been with DeLuxe for three years. In his new post he will be responsible for marketing the engineering products developed by the firm's Research and Development Dept., including the System 7 Computerized Process and Printer Control System.

Three other appointments were also announced. Ray Gaul, Vice-President, Production, has been given full responsibility for DeLuxe General's production facilities in Hollywood and New York and he is also Chief Executive Officer of DeLuxe's new affiliate in New York, Precision Film Laboratories. He has been with the firm since 1955 and in charge of production on the West Coast for six years.

Stan Judell has been appointed Vice-President, Administration, with an expansion of responsibilities to include all of the corporation's administrative functions. He has been with the firm since 1957 and served as Vice-President, Business Affairs for four years.

Gerald Cormier has been appointed Corporate Controller. He was formerly Assistant Controller.

Eastman Kodak Co. has announced seven appointments in the business and professional products group of the Kodak Apparatus Div.

Wayne R. Evans from Manager, Product Engineering, to Product Group Manager, Business Products.

Glen Offensend from Program Manager, Special Products, to Program Manager, Business Products.

Stewart F. Lambers from Technical Assistant to Program Manager, Business Products.

Henry F. Betz from Program Manager, Professional and Finishing Products, to Product Group Manager, Professional and Finishing Products.

Homer A. Smith from Senior Supervising Development Engineer to Program Manager, Professional and Finishing Products.

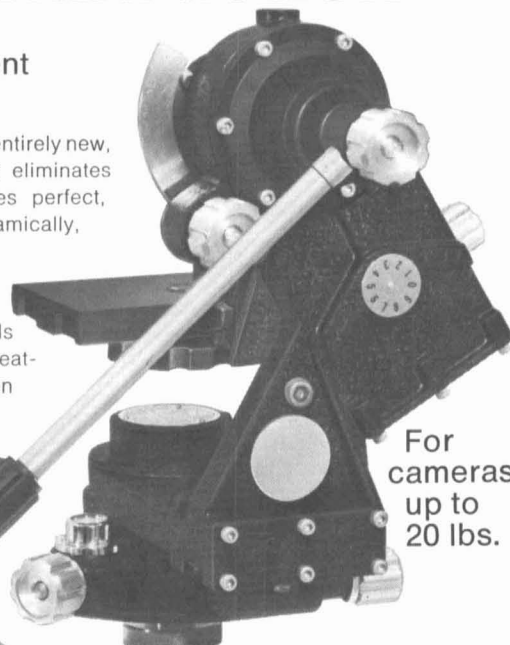
John S. Pollock from Assistant Manager, Special Products, to Product Group Manager, Graphic and Radiographic Products, Business and Professional Products.

George W. Scherer from Technical Assistant to Program Manager, Graphic and Radiographic Products.

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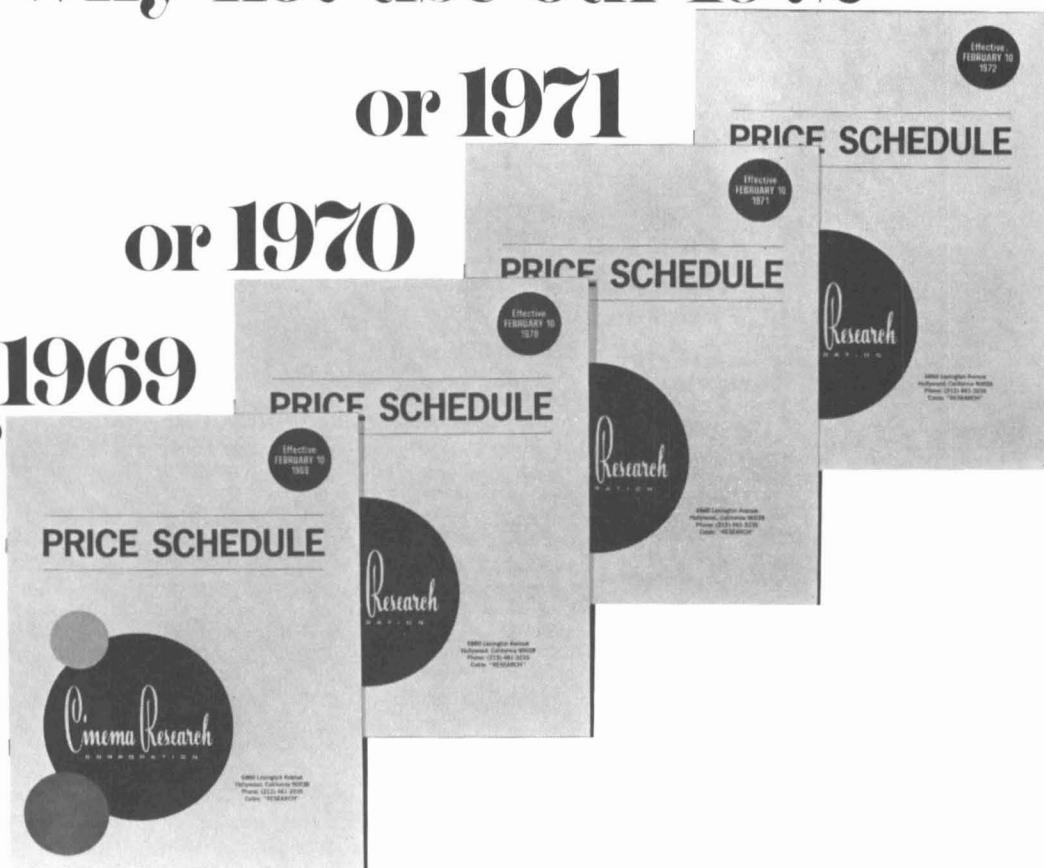
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