

Back Issues of Journal Wanted

The Society's supply of certain back issues of the *Journal* has been depleted. Copies of the following issues will be purchased from members at \$2.50 a copy: January 1969; August 1969; September 1970; November 1972.

It should also be noted that if a member fails to receive a *Journal* or if his *Journal* is received in a badly damaged condition, such will be replaced by copies available from headquarters.

Scholarship Awards

The Scholarship Committee has selected two recipients of the SMPTE Scholarships (for undergraduate students) and six recipients of the Academy-SMPTE Scholarships (for graduate students) for the 1973-74 academic year, it was reported by Herbert E. Farmer, Vice-President for Educational Affairs.

Peter Hertzmann and Jo Kirkenaer, both students at Rochester Institute of Technology, have been awarded SMPTE Scholarships.

Recipients of Academy-SMPTE Scholarships are: James W. Coombs (University of California Los Angeles); Katherine Herman (Boston University); Michael Kaminskas (Lehigh University); Robert Kiss (Rochester Institute of Technology); Thomas Sellers (California State University, Los Angeles) and Robert Valente (University of Southern California).

Mr. Hertzmann, born 11 March 1948 in San Francisco, hopes to work in the field of photographic instrumentation doing applied design when he completes his college training.

Mr. Kirkenaer, born 8 July 1949 in Oslo, Norway, is presently working toward the degree of Bachelor of Science. He hopes to continue with his studies to earn the degree of Master of Science in Photographic Science and Instrumentation and then to return to Norway where he plans to work in industry or in research for the government. In applying for the scholarship he said, "I see this field as being one with enormous possibilities in the near future, especially in my country. Norway is still expanding in the photographic field and there is a big demand for photographic engineers, especially in research and teaching and in information sectors of the photographic industry."

James Coombs, born 25 November 1948 in Cincinnati, received the degree of Master of Arts from Northwestern University in 1972 and hopes to earn the degree of Master of Fine Arts at the University of California Los Angeles and the PhD degree at the University of Southern California. He hopes to continue working on a project which he began in 1972 relating to the documentation of the arts of the Southwestern Indians. He proposed the use of small videotape-equipped vans to travel to the

outlying Indian settlements in Arizona and New Mexico to record the activities of Indian artists. The secrets of their techniques in such crafts as pottery, basket making and weaving may soon become extinct, since many of the artists are very old, unless a recording of their methods is made. Mr. Coombs is also interested in dance therapy; he has made a pilot film showing dance therapy for possible use in relating to autistic children.

Katherine Herman, born 23 June 1950 in New York City, is working toward the degree of Master of Science. She is especially interested in film as a medium to enhance international communications, understanding and cultural exchange.

Michael Kaminskas, born 7 February 1950, is working toward the Master of Science degree. When he receives the MS degree he will then be commissioned as a second lieutenant in the United States Air Force. His course of study emphasizes power system analysis and control theory. He hopes to be assigned to the Systems Command where he would do either research or application engineering.

Robert Kiss, born 5 January 1951 in Elizabeth, N.J., hopes to earn the Master of Science degree in Photographic Science. He is presently engaged in a research program dealing with the esthetics of the three-dimensional images produced by holography and the effects of the many variables of the holographic process on this newly developing esthetic.

Thomas Sellers, born 22 July 1935 in South Carolina, has worked as an electrician and has had some training in air-conditioning engineering. He feels that air conditioning in the motion-picture industry—for example, in laboratories where even temperatures must be maintained—is becoming of increasing importance. He is working toward an advanced degree with the aim of becoming a specialist in this field.

Robert Valente, born 11 June 1949 in Bronx, New York, is working toward the degree of Master of Fine Arts at the University of Southern California. He hopes to equip himself to work in the film industry in a post-production capacity or in the creation of special effects through animation.

The 11th International Congress on High-Speed Photography will be held 15-21 Sept. at Imperial College in London, England, it was announced by the British National Committee for High-Speed Photography and the Assn. for High-Speed Photography, c/o Central Unit for Scientific Photography, Royal Aircraft Establishment, Farnborough, Hants, England. More information will be given in a later notice, the announcement stated.

The Optical Soc. of America will hold its annual meeting 9-12 Oct. in Rochester, N.Y. There will be eight sessions: Color Vision; Optical Design, Fabrication and Testing; Photography and Electrophotography; Integrated Optics; Optical Processing; Scattering Spectroscopy; Tunable Sources; and Liquid Crystals. On 8 October, before the start of the regular OSA sessions there will be a joint symposium conducted by OSA and the Center for Vi-

sual Science on "Psychophysical Studies of Color Vision Mechanisms." Following the symposium a dinner will be held at the University of Rochester where Ralph M. Evans will deliver a lecture on "The Perception of Color." A special event of the meeting will be the Awards Luncheon to be held 10 October when the 1973 Ives Medal will be presented to Rudolf Kingslake, the 1973 Meggers Award to Curtis J. Humphreys and the Distinguished Service Award to Mary E. Warga. Following the luncheon Mr. Kingslake will deliver the Ives Medal Address. Additional information about the OSA meeting is available from Jarus W. Quinn, Executive Director, Optical Soc. of America, 2100 Pennsylvania Ave., N.W., Washington, DC 20037.

The University of Southern California has announced a film seminar to be held 18 Aug. - 5 Sept. with 15 days at the Edinburgh International Film Festival and three days at the Cinemateque in Paris. The seminar is part of USC's 67th annual summer session. The seminar will be conducted by Dr. Russell McGregor of the USC Cinema faculty. Class activities will include film screenings, seminars and film production. Each student may complete an 8mm film during the session. University tuition will be \$328 and enrollment is limited to 16 students. Application deadline is June 15. Further information is available from USC Overseas Cinema Program, Div. of Cinema, University of Southern California, University Park, Los Angeles, 90007.

The 4th Kent/AFI Summer Film Institute will be held 11-26 Aug. at Kent School in Kent, Conn. The Institute, co-sponsored by American Film Institute and Kent School, and made possible by a grant from the National Endowment for the Arts, is designed for educators, on all grade levels, interested in film. Film history and criticism, film production and film study in the school will be covered in more than 180 classroom hours. Further information is available from Tom Andrews, Director, Kent/AFI Summer Film Institute, Kent School, Kent, CT 06757.

The Harrow School of Photography, Northwick Park, Harrow HAI 3TP, England, has announced construction of a new Scientific Applications Laboratory that will be located in a basement to provide vibration-free conditions for advanced holography and other high-precision optical systems. The new laboratory will cover 1400 ft² and will include a large working area with wide access doors for long- and short-term project work and a special optical techniques room with full darkroom and processing facilities for photography, film and television.

Information Film Producers of America has announced a 30 July deadline for applications for the 1973-74 Eugene C. Keefler Memorial Scholarship. Any cinema student enrolled in an accredited degree-granting institution who is majoring in film is eligible to apply for the scholarship provided he has maintained a 2.5 or better grade-point average in all college courses and a 3.0 average or better in all film

courses. Other requirements include submission of a completed film (16mm or 8mm), or a completed filmstrip, or a completed original major research paper dealing with one of the film technologies. Further information is available from Prof. Joseph A. Daccurso, Chairman, Committee on New Filmmakers, c/o 1216 North Orange St., Peoria, IL 61606.

The Cinematheque, an exhibition facility containing three motion-picture theaters, a 500-seat cinema in a dome outside the building and two interior auditoriums (one with 250 seats and the other with 150 seats) and a private screening room will be created in "found space" under the Queensborough Bridge in New York City. The area contains 50,000 ft² that, for 40 years, has been used for storage by the Police and Highway departments.

As reported in the *New York Times* of 13 April 1973 the Board of Estimates approved plans to lease the space to City Center Cinematheque for \$1 a year and plans are underway to convert the under-bridge space into a \$6.5 million film museum and exhibition center.

The Cinematheque will operate in collaboration with La Cinématique Française in Paris. Henri Langlois, of the French Cinématique, will be the artistic director of the New York facility which will draw upon his collection of 60,000 films as well as using films from other sources.

The "found space" under the bridge is a dramatic series of cathedral-like vaults and arched openings that served as an open market in 1910 when the bridge was new. In 1919 the area was glassed in. The architectural firm of I. M. Pei and Partners will convert the space to a new use as a film exhibition area while retaining the dramatic qualities of the original structure.

Formation of the Professional Super-8 Film Institute has been announced by Alan Rogers, formerly Manager of 20th Century-Fox Film Corp. in New York. The Institute, located at Suite 4, 300 W. 55 St., New York, NY 10019, has been created to provide an international information service on all facets of the super-8 film, including what super-8 cameras and accessories are available, what film stocks are available in super 8, what companies offer specialized services such as making super-8 workprints, edge numbers in the workprints and making A & B roll prints, what consultants are specialists in all phases of planning, producing and promoting super-8 films, what publications are devoted to super 8 and other relevant information.

The Institute is a membership organization open to anyone interested in achieving professional results with super-8 equipment and film. Services of the Institute include monthly meetings at which the latest super-8 equipment will be shown and demonstrated and a team of experts will be available to answer questions. The Institute will also operate a Speakers Bureau of experts in the super-8 field and will publish *Newsletter* and *Fact Sheets*. A sample copy of the *Newsletter* and further information about the Institute are

available from Mr. Rogers at the address above.

Noise Control Engineering is a new technical magazine published by the Institute of Noise Control Engineering. The Editor-in-Chief is Lewis S. Goodfriend, P.O. Box 2167, Morristown, NJ 07960. The Institute has also established a new Associate category open to all individuals interested in noise and its control. INCE Associates will receive both *Noise Control Engineering* and the Institute's Newsletter, *Noise/News* for \$30 a year. Information about how to become an INCE Associate is available from Mr. Goodfriend.

Publication of *Noise Control Engineering* is in cooperation with the Acoustical Society of America and was made possible by a grant from the National Science Foundation. Initially, the magazine will be published quarterly.

The ANSI Metric Package—five volumes designed to foster a broad understanding of the metric system and to help determine the impact of metrication on a particular field of interest—has been augmented by the addition of *International Standard ISO 1000: SI Units and Recommendations for the Use of Their Multiples and of Certain Other Units*. Formerly an ISO Recommendation, the document has been revised to incorporate a number of evolutionary changes. The introductory text has been expanded and clarified. Tabulation has been improved and the use of temperature scales has been clarified. *ISO 1000* makes special mention of units outside the SI that have been retained, including the degree, minute and second for plane angles, the tonne for large masses and the bar for pressure.

ISO 1000 is available from American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018, at a price of \$1.50. The other books in the Metric Package are *Orientation for Company Metric Studies* (\$1.00); *Measuring Systems and Standards Organizations* (\$1.25); *Guide to Impact of Metric Use on Standards Development in Companies, Trade Associations, Technical and Professional Societies* (\$1.00); *American National Standard Metric Practice Guide, Z210.1-1971 (ASTM E380-70)* (\$1.50); and *Anti-trust Implications of Metric Conversion* (\$2.00).

The U-Matic Program Catalog, an 86-page listing of ¾-in videocassette programs for sale or rental, is available from C. S. Tepfer Publishing Co., 607 Main St., Ridgefield, CT 06877, at a price of \$3.00. The catalog has a subject index (an alphabetized listing of the topics, subjects, key words and concepts covering the titles in the catalog) and a title index (an alphabetized listing of all titles in the catalog with a brief description of the content of each title plus additional information about its availability and use). Included in the information for each program in the Title Index are the clearances available for the title—Individual (user only), closed-circuit TV or CATV.

The U-Matic color videocassette system designed to put prerecorded programs on any TV screen was announced in 1972 by

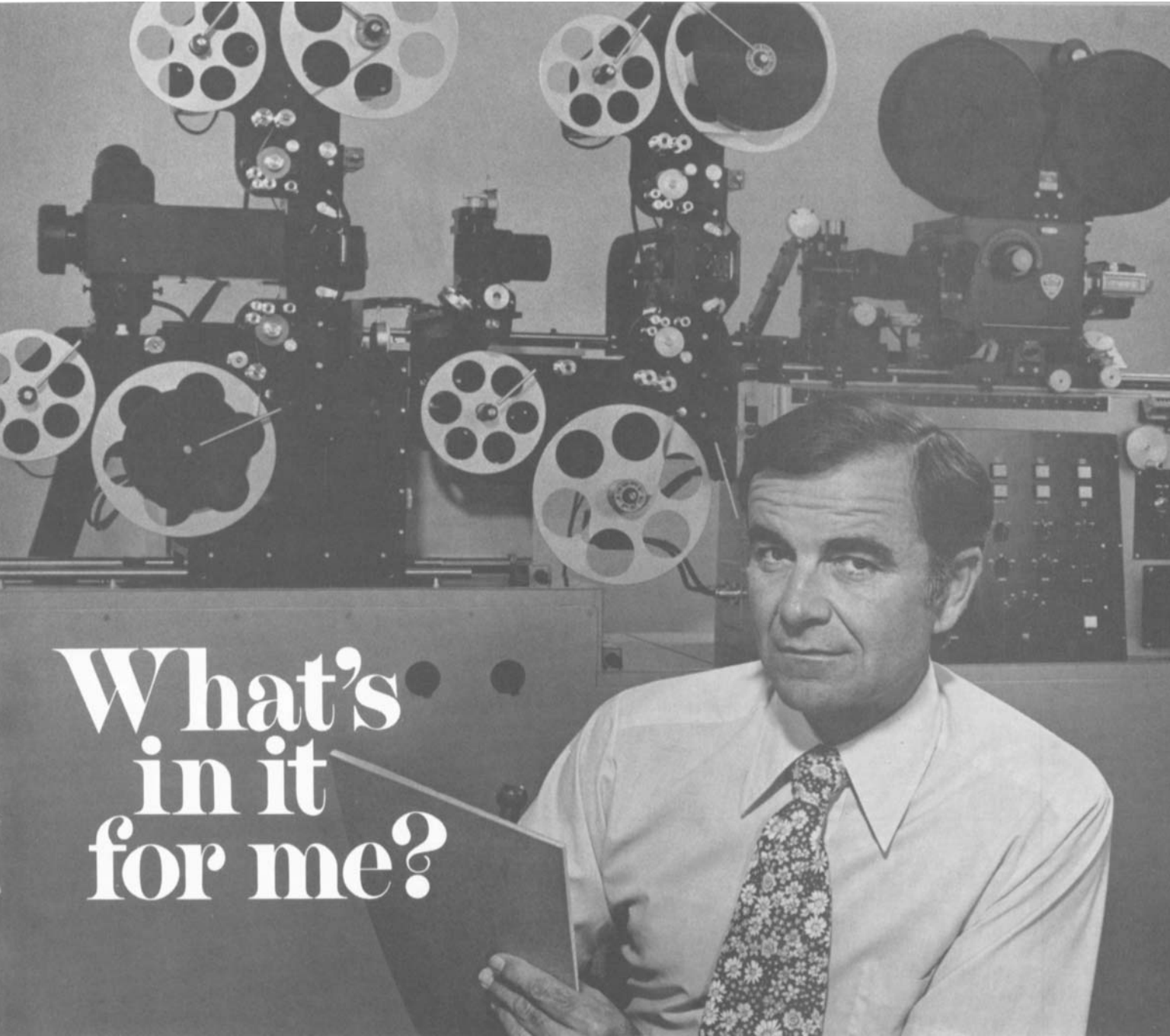
Sony Corp. of America (*Journal*, p. 266, Mar. 1972). The catalog includes a listing of six titles in a series entitled Sony Videocassette Demonstration Program. Each title is priced at \$30. The series is available from Sony Corp. of America, 47-47 Van Dam St., Long Island City, NY 11101. The hundreds of other titles listed in the catalog range through cultural, medical, artistic, scientific and "how-to" informational programs for children and adults.

The American National Standards Institute (ANSI), 1430 Broadway, New York, NY 10018, has announced publication of the 1973 catalog containing more than 4,700 American National Standards and some 3,000 International Standards and Recommendations. The catalog is available from ANSI without charge. It contains 160 pages, has a 23-page index and includes all ANSI standards approved through 31 Oct. 1972 as well as recommendations and standards received during 1972 from the International Organization for Standardization (ISO), the International Electrotechnical Commission (IEC), the International Commission on Rules for the Approval of Electrical Equipment (CEE) and the Pan American Standards Commission (COPANT). This is the first ANSI catalog to list ISO Standards as well as ISO Recommendations. ISO began publishing International Standards in 1972. The standards listed in the ANSI catalog encompass a broad range of topics and disciplines including dimensions, ratings, terminology and symbols and test methods.

Anik II, a Canadian satellite, was launched 19 April. It is used by two RCA companies to provide full-time transcontinental domestic communications satellite service for the United States (*Journal*, p. 424, May 1973). The satellite was launched by NASA for Telesat Canada which operates Canada's domestic satellite system. Although Anik II is primarily for Canadian communications, two of its transponders have been leased by RCA Global Communications, Inc., and RCA Alaska Communications, Inc., to carry communications traffic between the East and West coasts in the United States and between both coasts and Alaska. The RCA companies plan to use Anik II to initiate the United States domestic service in August. The RCA companies plan to use five earth stations to work in conjunction with Anik II which will be placed in stationary orbit over the equator. Initially, stations will be installed in the New York-Washington Corridor, near San Francisco and at Anchorage, Alaska. A fifth station near Los Angeles will be established later.

The Canadian satellite system was described in a group of papers in the February 1972 issue of the *Journal*: R. M. Lester, "Television Distribution by the Canadian Domestic Satellite System"; C. A. Siocos, "Utilization of Domestic Satellites in the Networks of the CBC"; and J. E. D. Ball, "Some Technical Considerations in Providing Television Coverage by Satellite." The March 1972 issue of the *Journal* also contains papers on satellites.

The New Rural Society Project, One Communication Plaza, Stamford, CT



What's in it for me?

Maybe we ought to start out by saying what is *not* in our new Model 2101 Aerial-Image Optical Printer.

To be exact, we left out mechanical gear trains, levers, one horsepower motors, shafts, stop-motion clutches, solenoids, relays, knuckle joints and a lot of other things like that. We thought of it as leaving out trouble. After all, if mechanical drive systems are going to wear, vibrate, backlash, gum up, drag or stick, you know when they are going to do it. Right in the middle of your rush job. When else?

Not any more.

Which brings us back to that original question. What we put in, in place of all that worry, was our space-age drive system called "PhotoTron". It's an all electronic film drive using computer-accurate stepping motors and solid-state electronics on snap-out circuit cards. That's right, *snap-out* circuit cards. They may not exactly eliminate down time, but they should put a pretty big dent in it.

If all that sounds pretty good, listen to this. We made our new printer automatic. Automatic zooms from 4X enlargement to 5X reduction, automatic dissolves, logarithmic or linear for perfect fades or dissolves without overlap, an automatic shutter that can be programmed, at the flip of a switch, over a predetermined fade count, and an automatic skip-frame programmer that gives you unlimited combinations at all speeds and with three heads at once.

Sound pretty impressive?

We like to think so, but there's more. By making the drive system all-electronic, it can be adapted easily to computer control or tape programming. So when you're ready for this, you'll know that your Model 2101 will be too.

Price? Brace yourself. The lowest in the industry for an optical printer with the same features. That's something you don't hear every day. But it's really very simple. By throwing out all that expensive tailor-made hardware and simplifying construction, advantage went up and cost of manufacture went down.

What's in it for you? Plenty.

Write, wire or phone for our full line catalog and our custom engineering capabilities. Research Products, Inc., 6860 Lexington Ave., Hollywood, Calif. 90038; Phone: (213) 461-3733; Cable: "RESEARCH"

Purchase or lease plans available.



RESEARCH PRODUCTS

Research Products are Products of the Future

06904, headed by Peter C. Goldmark, Project Director, has conducted teleconference experiments with organizations 26 miles apart to demonstrate the feasibility of group discussions by electronics between individuals many miles apart without disrupting individual working schedules. The teleconferencing experiment utilizes two-way cable television over a microwave hookup. Groups at each location have a television monitor before them and one or more persons are shown on the screen. The reaction of the conference participants is comparable to being seated around the same table in the same room engaged in a face-to-face meeting. In describing the project, Dr. Goldmark said, "It goes without saying that communications are the pulse beat of the everyday operations of any active agency or business firm. With the cooperation of a number of forward-looking Connecticut organizations, we have been conducting back-to-back studio experiments in personal interaction via telecommunications technology all the way from one-to-one telephone conversations to audio/video group teleconferencing."

Two new full color UHF stations, WNJM-TV, Channel 50, transmitting from Little Falls, N.J., near Montclair, and WNJB-TV, Channel 58, transmitting from Warren Township, near New Brunswick, N.J., began broadcasting on 2 June. The two stations are the last to be placed in operation by the New Jersey Public

Broadcasting Authority. They join WNJT-TV, Channel 52, in Trenton and Channel 23 in Camden-Atlantic City in completing the state network covering all of New Jersey as well as New York and Philadelphia.

A separate announcement from the New Jersey Public Broadcast Authority reported delivery of a 30-ft color television van by RCA Corp. for use as a mobile control room and televising facility for Channels 50 and 58 as well as for Channels 23 and 52. The van was designed especially for the needs of the New Jersey Public TV Network. It is equipped with three TK44 RCA color cameras and the TR-60 videotape recorder.

WSNL-TV Channel 67 UHF, at Melville, N.Y., Long Island's first and (so far) only commercial television station has appointed Savalli/Gates, Inc., 509 Madison Ave., N.Y., as representatives for national time sales. The station is scheduled to begin broadcasting in the fall of 1973. A studio, office and transmitter complex is presently under construction at the intersection of the Long Island Expressway and Veterans Memorial Highway. The station is licensed for 24-hour broadcasting, but initially programming will run 12 hours daily beginning at noon.

Rutherford Photographic, 211 Laird Dr., Toronto 17, Ont., Can., has announced expansion in the specialized field of automated processing. Some of the areas to be

covered are cine processors (especially for TV installations); video color analyzers; fully automated film and paper processing equipment; control instrumentation for black-and-white and color; and pollution control. Services offered with the expansion include consultation; system selection; planning and layout; sales and installation; and maintenance follow-up. Head of the new expansion department is Bob Lee who is also Sales Manager for the entire photographic division.

Schneider Corp. of America, 154 Lodi St., Hackensack, NJ 07601, has announced some changes in distributors in a move to simplify the retail distribution of its various lens lines by avoiding duplication of sales effort by more than one distributor in every major lens market, according to an announcement by Edward A. Wollensak, Vice-President of Marketing. Goerz and Schneider photographic taking and enlarging lenses will be distributed by Burleigh Brooks Optics, Inc., of Hackensack. Previously the two complementary lines of lenses had been handled by separate distributors.

In Canada, the Goerz and Schneider lenses will be handled by Braun Electric Canada, Ltd., of Mississauga, Ont. Isco and Kollmorgen theater projection lenses will be handled in Canada by General Sound and Theatre Equipment Ltd., Toronto, Ont., and in the United States by Schneider Corp. of America which will also handle slide and movie projection lenses.

RCA AL-70 Automatic Looping System.



A system for automatic dialog replacement.

"Auto-Loop" is a precise, economical and accurate method of adding or changing dialog in sync with picture. It is an electronic system for post-sync recording that works automatically, without need for cutting and splicing film loops.

With this system, once the director selects his "take", the OK'd dialog is ready for transfer *immediately* for final mix.

The result: faster, more accurate editing—and a saving of both time and expense.

Get details on this efficient, cost-effective dialog replacement system. Ask for the AL-70 "Auto-Loop" brochure.



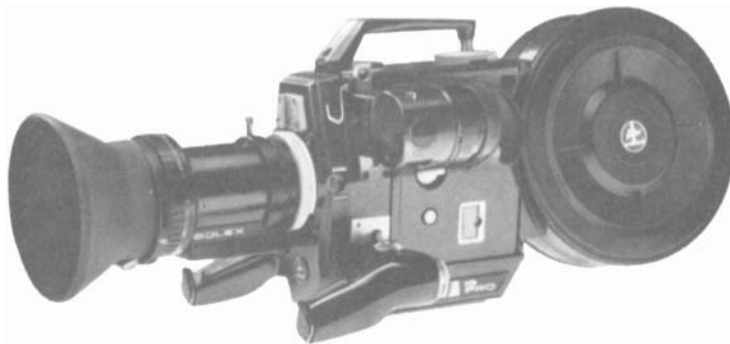
RCA PHOTOPHONE SOUND RECORDING

Domestic
Jack Leahy
2700 W. Olive Avenue
Burbank, CA 91505
Telephone: (213) 849-6741

International
Al Power
Front & Cooper Streets
Camden, NJ 08102
Telephone: (609) 963-8000

RCA

cut along dotted line



How much do you want to know about BOLEX 16 PRO?

I'd like to know more about:

THE MAGAZINE

- Coaxial for 400' reels or cores.
- Compact light and inexpensive
- Sprocketless design for quick loading
- Footage counters for each chamber
- Rear-mounted for optimum mobility

FILM THREADING

- Fully automatically in 3 seconds
- Fully automatic film take-up in 400' magazine
- Signal light tells when camera is ready to shoot
- Light signals when empty
- Built-in cutter for removing partially exposed film

MOTOR DRIVE

- Crystal controlled for sync sound filming
- One electronically controlled motor for all filming needs
- Variable speeds 16 to 50 fps; 16-100 fps models available
- Forward and reverse
- Single frame filming
- Instant start and stop—no blank frames between scenes

SOUND

- Double system at 24 or 25 fps
- Super quiet—no blimp needed
- Wireless synch sound shooting with accuracy ± 1 frame per 1,000 feet
- Automatic slating lamp
- Single system sound model available

FILMING AUTOMATION

- Fully automatic exposure control
- Variable speed power zooming
- Variable speed power focusing
- All controls built into handgrips
- Manual over-rides on all controls
- Remote control possible for all functions

EXPOSURE CONTROL

- Automatic, through-the-lens
- Manual over-ride
- Film speeds of 12 to 1600 ASA
- Meter coupled to camera speed control
- f-number visible in viewfinder
- Audible signal when insufficient light

LENSES

- Wide range of zoom lenses
- Extreme wide angle lens
- Rugged bayonet mount
- Lens controls coupled to servo motor
- Silent operation of powered lens controls
- Shock-absorbing rubber lens shade

VIEWFINDER

- Practically flickerless mirror shutter reflex viewing
- Camera stops without mirror blackout
- Possibility of right or left-eye viewing
- 20X magnification
- Instant change from ground glass to clear glass
- TV and 16mm frame markings
- Can be rotated 45, 90, and 180 degrees
- Indicates f-stops
- Remote viewing possibility

FILM TRANSPORT

- Very low pressure required at pressure plate
- High-precision single tip claw transports and registers film
- Superb picture steadiness better than 0.1%

POWER PACK

- 12V rechargeable battery
- Plug-in electronic modules
- Plug-in crystal synch controls
- Outlets for connecting tape recorder, time lapse units and other accessories
- Choice of powerbelt or powerpack
- Signal light on camera shows condition of battery
- All of the above

BOLEX 16 PRO

If, in addition to information, you'd like a demonstration of the Bolex 16 PRO, write Pailard Incorporated, 1900 Lower Road, Linden, New Jersey 07036. We'll notify you when we'll be in your neighborhood.

NAME _____

AFFILIATION _____

STREET _____

CITY _____ STATE _____ ZIP _____

For countries outside the U.S.A., write Bolex International S.A., 1450 Ste. Croix, Switzerland

cut along dotted line

Auditronics, Inc., 180-B S. Cooper, Memphis, TN 38104, has announced three new appointments. Steve Sage, one of the founders and owners of the six-year-old firm, has been appointed to the newly created position of Vice-President, Manufacturing. Robert Ward has been appointed Vice-President, Marketing, and Bruce Bringle has been appointed Sales Engineer.

PEC Communications, Inc., a newly formed division of Photo Electronics Corp., Fairfield Dr., West Palm Beach, FL 33407, has been assigned the assets and license for Station WEAT-TV (Channel 12) in West Palm Beach, Fla., according to terms of an agreement with Gardens Broadcasting Co., licensee of WEAT-TV-AM-FM. WEAT-TV began operations in 1955 and was purchased by Gardens Broadcasting Co. in 1964. WEAT AM and FM are not included in the agreement with PEC Communications. Announcement of PEC Communication's acquisition of WEAT-TV was made jointly by John D. MacArthur, President of Gardens Broadcasting Co., and Alex W. Dreyfoos, Jr., President of PEC Communications. Mr. Dreyfoos is President and founder of the parent company, Photo Electronics Corp., which, together with Eastman Kodak Co., received an Academy Award in 1971 for the development of the Motion Picture Video Analyzer. In making the announcement, Mr. Dreyfoos said that he intended to apply some of the company's technology

in special purpose color television systems to television broadcasting.

Teletape Corp., 321 W. 44 St., New York, NY 10036, has installed four RCA TK-44B color television cameras and a CDL switcher following an arrangement with Children's Television Workshop for the production of *Sesame Street* and *The Electric Company*. More than 35 persons will be employed full time in the production of the programs.

Metro/Kalvar, Inc., 745 Post Rd., Darien, CT 06820, has announced appointment of Maier-Hancock Industries as a distributor for the Ultrasonic Film Splicer. The splicer (*Journal*, p. 833, October 1972) is designed to fuse all polyester base films without scraping the emulsion.

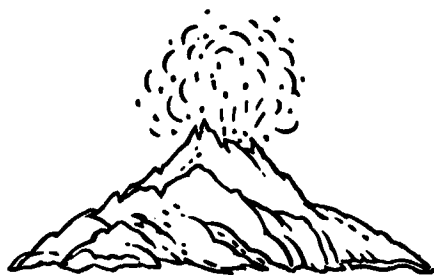
Motion Picture Laboratories, Inc., 781 South Main St., Memphis, TN 38102, has announced that it now offers color video film transfers from 1-in IVC videotapes in addition to transfers from 2-in tape. MPL's recently expanded Film Transfer Dept. includes, in addition to the new IVC equipment, a color telefilm recorder, a monochrome telefilm recorder and videotape machines to handle 2- and ¾-in, U-Matic and ½-in EIAJ formats.

Bell & Howell's Avicom Div. will equip the Olympic Airways new 747 jet aircraft with an entertainment system, including

installation in the upper deck which the carrier is using as a first-class cabin, it was announced by the Bell & Howell Electronics and Instruments Group, 360 Sierra Madre Villa, Pasadena, CA 91109. The upper deck equipment will be in addition to the main deck systems which are similar to those now flying in 75 other Bell & Howell-equipped 747 craft. The new jet will fly Olympic's North Atlantic routes. The equipment will be supplied, serviced and maintained by Avicom which will also provide feature film booking to support the Olympic motion-picture flight schedule.

Robert E. Buescher has been appointed Manager, Eastern Sales, and Robert S. Dickinson has been appointed Manager, Western Sales, for RCA Film Recording Systems, Burbank, Calif., it was announced by John V. Leahy, Manager Film Recording Marketing. The Eastern Sales Office is located at 275 Main St., Mt. Kisco, N.Y., and the Western Sales Office is in the RCA facility at 2700 W. Olive Ave. in Burbank. Mr. Buescher recently rejoined RCA Corp. from Nagra Magnetic Recorders Inc., New York, where he had been National Sales Manager. He was first employed by RCA in 1951 as a film recording field engineer and he left in 1963.

Mr. Dickinson had served as an RCA film recording representative since 1966. He had previously been Marketing Manager for Amega Corp.



Special Effects in Motion Pictures

(Some Methods for
Producing Mechanical
Special Effects)

Frank P. Clark

CONTENTS: The Development of Special Effects

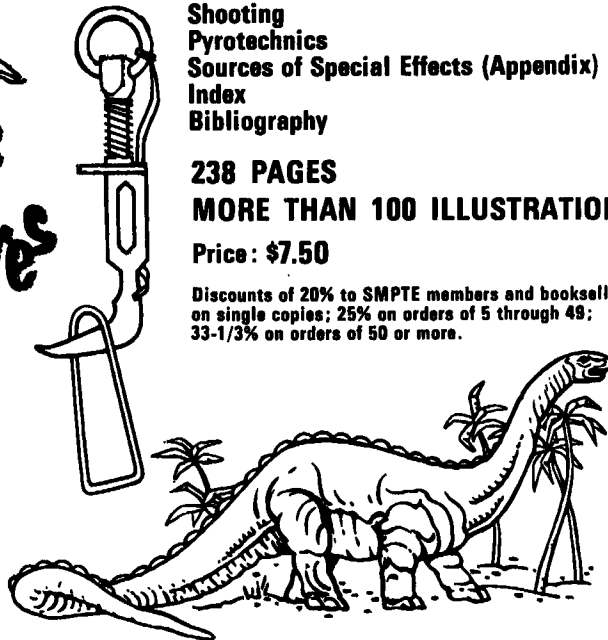
The Application of Special Effects
Atmospheric Effects
Special-Effects Props
Optical Effects
Sound Effects
Miscellaneous Effects
Shooting
Pyrotechnics
Sources of Special Effects (Appendix)
Index
Bibliography

238 PAGES

MORE THAN 100 ILLUSTRATIONS

Price: \$7.50

Discounts of 20% to SMPTE members and booksellers
on single copies; 25% on orders of 5 through 49;
33-1/3% on orders of 50 or more.



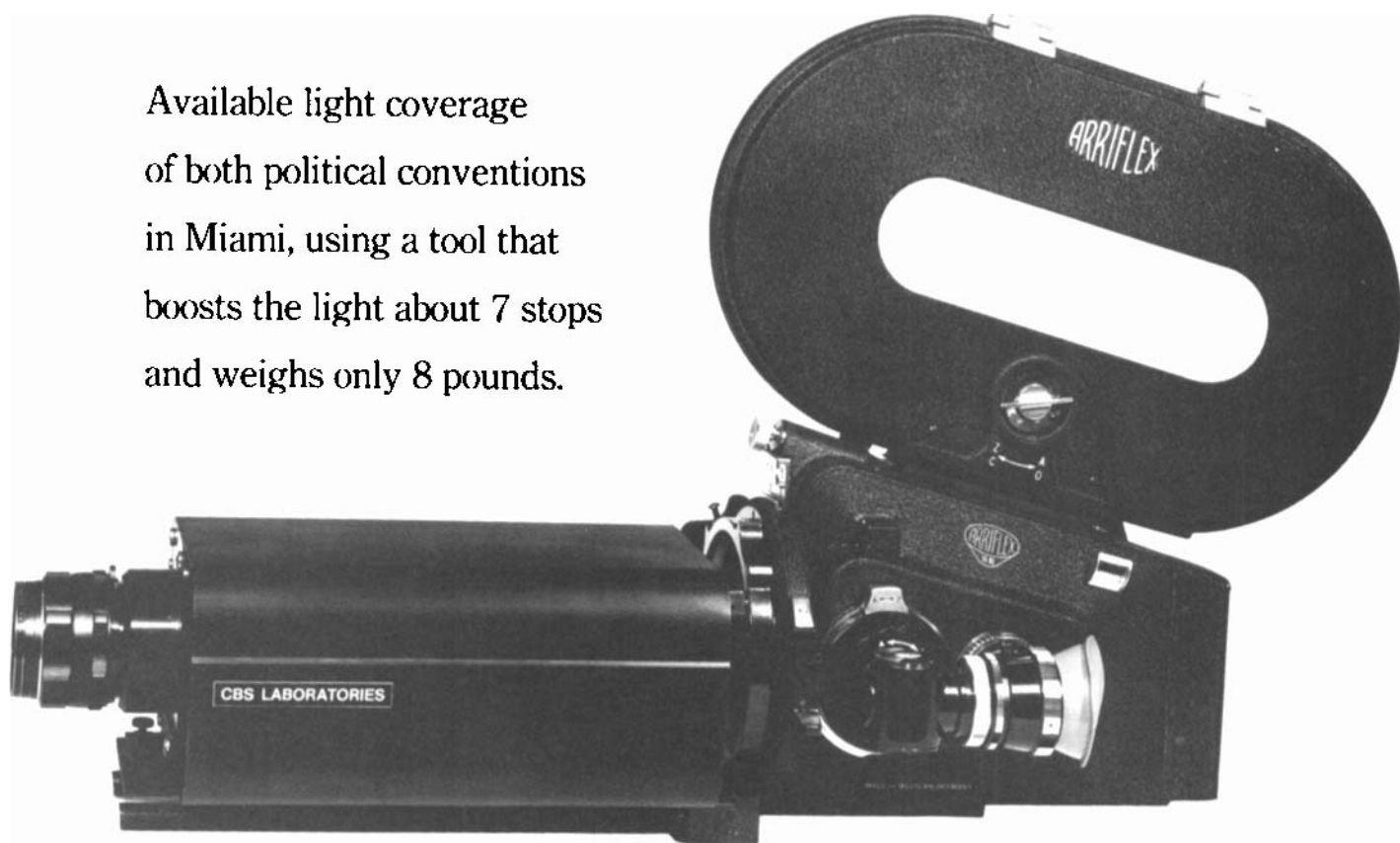
Reviewed by
the SMPTE Advisory
Committee on
Special Effects
Motion Pictures:
Herbert Meyer
Chairman
Russell Brown
Thomas G. Fisher
Jack Froehlich
Max Hankins
Ub Iwerks
Ivan Martin
Bob Matthey
Frederic L. Ponedel
John Roche
J. Edward Stembridge
Edward Stones
Virgil Summers

Order from:

Society of Motion Picture and Television Engineers
862 Scarsdale Ave., Scarsdale, N.Y. 10583

New CBS Labs Color Light Amplifier used by CBS News with Arriflex 16BL camera.

Available light coverage of both political conventions in Miami, using a tool that boosts the light about 7 stops and weighs only 8 pounds.



The Color Light Amplifier gives EF 7242 an effective ASA speed of 12,500, instead of 125. That's with normal processing!

This means that much more news and documentary footage can be shot with available light only. Even at night. That will work wonders for realism and spontaneity, of course. And the Amplifier is a *lot* less cumbersome than the lighting gear you'd need to get the same shot.

CBS chose 16BL

CBS News used a 16BL with a Color Light Amplifier in their coverage of the political conventions. It can be mounted on any camera, of course. But while developing the Amplifier, CBS Laboratories chose to mount it on an Arriflex 16BL.

With APEC Meter

Why the 16BL? Well, one precision instrument deserves another. And the 16BL's built-in APEC meter system measures the light

at the film plane—*after* it has been amplified.

With APEC, you take the reading and set the stop *all in one movement*. And you can see the needle in the viewfinder, even during the shot. Fast, helpful and accurate; like the Color Light Amplifier.

ARRI

ARRIFLEX COMPANY OF AMERICA

FOR FREE BROCHURES ON OUR 16MM AND 35MM CAMERAS, WRITE TO ARRIFLEX COMPANY AT P. O. BOX 1050, WOODSIDE, N.Y. 11377; OR AT 1011 CHESTNUT ST., BURBANK, CALIF. 91502.

available now --



**high precision
Geneva Drive
components & assemblies
in several styles**

for extremely critical indexing. Four-position Geneva Starwheels, one-piece construction of hardened tool steel. Drivers of hardened steel. Both available in several styles. Complete intermittent movement assemblies also available. Send for catalog AB-61.

Geneva specialists since 1908
LaVezzi machine works, inc.

Note New Address!

900 N. Larch Ave. • Elmhurst, Ill. 60126 • (312) 832-8990

Products produced by the Film Recording Systems include the FR-10 and the PM-85 magnetic recording systems, the PM-80A optical film recording system and the AL-70 Auto Loop system for post-sync recording.

John W. Zuidema and Gordon A. Trumbauer have been appointed Senior Technical Associates in the film technical services division of the film manufacturing organization at Kodak Park, Eastman Kodak Co. Mr. Zuidema began his career with Kodak in 1938 in the synthetic chemistry department. In 1951, he moved to the film testing division which is now the film technical services division. In his new post he will be a project consultant and a project leader on various film manufacturing projects. Mr. Trumbauer joined Kodak in 1948 in the industrial engineering division at Kodak Park. He moved to film technical services in 1971. In his new post he will be responsible for coordinating the development of new products, establishing quality control standards and evaluating radiographic films for the film manufacturing organization.

Mort Golden has been appointed Manager, East Coast Sales, for Precision Film Laboratories, it was announced by Burton Stone, President. The firm is an affiliate of DeLuxe General. Mr. Golden was formerly with Cinema Center Films and with American International Pictures.

John Wilkinson and Richard Ur have been appointed Vice-Presidents of Optical Radiation Corp. (ORC), 6352 N. Irwindale Ave., Azusa, CA 91702. Mr. Wilkinson, a co-founder of ORC and Director of Engineering since its inception in 1969, is also Treasurer and a member of the Board of Directors. He is responsible for all aspects of engineering, including product development, special projects and customer relations on new products. He received a Class II Academy Award in 1972 for the ORC system of xenon arc lamphouses for motion-picture projection (*Journal*, p. 630, August 1972). Mr. Ur has been Director of Administration at ORC since joining the company in September 1969 as its first employee. He supervises personnel, purchasing, material distribution, inventory control, contract administration and facilities administration.

Zinkoe Productions Ltd., a film and television dubbing organization, founded by Harry Zinder in cooperation with Scottish Television, has operated internationally as well as in Israel during its first year of existence. Mr. Zinder was formerly with *Time Magazine*. He settled in Israel after World War II where he held various government information posts, including Director of Israel Government Information Services and Director of Israel Broadcasting Service, before organizing Zinko Productions. A computerized looping system is used to cut down time and effort involved in dubbing a film or television show. For Israeli TV audiences, Zinkoe dubbed a French series called *The Magic Roundabout* into Hebrew. It was also responsible for dubbing several instructional films from English to Hebrew and Hebrew

**CRYSTALOK...
Crystal Motor Controller
for Arri 16-BL**



FEATURES:

Crystal sync speed of 24 fps (25 fps for cameras geared for that

speed) and variable speed over a range of 14 to 48 fps. Accuracy in sync mode: ± 15 parts per million over temperature range of 0° to 140°F. Extremely compact, projects only 1 1/2" beyond Universal motor housing when installed. Lightweight — weighs only 14 1/2 oz. complete with bracket and cable. Out-of-sync warning light flashes whenever camera is not running at preset speed both in sync or variable speed mode. The Crystallok crystal controller slips over the end of the Arri 16-BL Universal motor housing and is held in place by three thumb screws. Uses standard Arri 16-BL 12 volt power supply.



For further information write to:

cinema E products
CORPORATION

Technology In The Service Of Creativity

2044 Cotner Avenue, Los Angeles, California 90025
Telephone: (213) 478-0711 ■ Telex: 69-1339 ■ Cable: Cinedecco

Image Devices Incorporated • Image Devices Incorporated • Image

Devices Incorporated

Incorporated • T

Image Dev

Devices

Incorp

Image

De

Inc

Im

D

Inc

Image

Devit

Incorpor

Image Dev

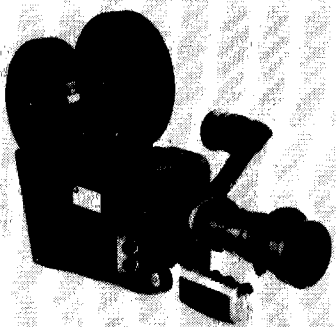
Devices Incorporated

Incorporated • Image D

Image Devices Incorporated • Image Devices Incorporated • Image

Image Devices Incorporated • Image Devices Incorporated • Image

News/Doc cameramen everywhere:



Here's the pace-setting new lightweight versatile complete and splendid practically silent 16mm TV-newsfilm cameraman's camera. Must be experienced to be believed.

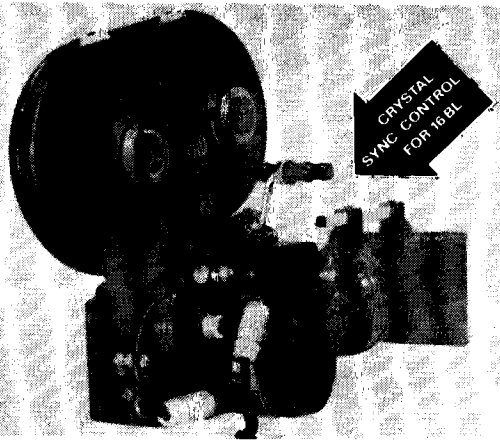
cinema products CP-16 AND CP-16/A

FREEDOM from SYNC CABLES

Jensen 505 Multisync® \$775.

EXCLUSIVE FEATURES:

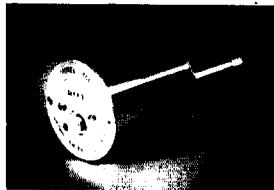
- ★ Pre-wired with external connector for radio slate.
- ★ Automatic out-of-crystal-sync safety camera stop.
- ★ External sync input (slave your BL from any pilot source).
- ★ No camera width increase; camera fits in case with unit attached.
- ★ Accuracy better than 1/6 frame per 400' (± 10 ppm) $-4^{\circ}F$ to $+140^{\circ}F$.
- ★ All controls safely recessed.
- ★ Bypass Button allows for immediate mode change back to camera governor-controlled speed.



OTHER FEATURES: • Snaps right on in seconds; no tools. • Lightest and most compact unit: 12 ozs. and streamlined. • Variable speed range 8-50fps. • Hundreds field-proved in Europe for over two years. • Immediate delivery. • Unconditional 1 year guarantee.



Time Sync Generator fits all recorders Model 550



Crystal Motor for Arri S or M Model 504



Eclair Ciblo Retrofit Model 508

Image Devices Incorporated • Image Devices Incorporated • Image

Image Devices Incorporated • Image Devices Incorporated • Image

IN MIAMI
YOUR CINE
EQUIPMENT RENTAL
SALES & SERVICE SOURCE
FOR
S. E. USA · CARIBBEAN · BAHAMAS

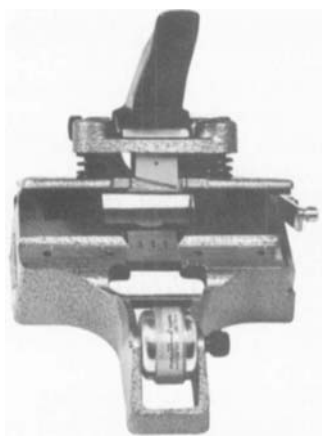
Esoteric Sight & Sound Equipment
Image Devices Incorporated
811 NW 111 STREET · MIAMI, FLORIDA 33100 USA
Telex 51-9348 Cablo IMAGE/MIAMI Phone 305/764-4141



Incorporated • Image Devices Incorporated • Image Devices Incorporated

GUILLOTINE®

a cut above the others



The new Guillotine wrap-around splicer; for fast, silent and optically-clear splices.

The new Guillotine/FR 16mm professional splicer is 75% faster. And provides a noiseless splice, too. There's no "pop" in the magnetic track. Guillotine's famous recessed splicing block is now designed so that after the single-stroke splicing operation, you simply wrap the extra tape around the back. There's just enough tape to reinforce the splice without interrupting the magnetic track.

You get the other Guillotine features also. Drop-in film positioning to assure speed and strength. Repair of broken sprocket holes. And use of our frame-line-to-frame-line tape—the strongest, most optically clear available today.

Try us. Working with the best makes sense. Contact your quality photographic dealer.

Guillotine Splicer Corp., Box 838, 45 Urban Ave., Westbury, N.Y. 11590 (516) 997-5566.
Western Division: 3407 West Olive Ave., Burbank, California 91505 (213) 846-7740.

Binders for SMPTE - sponsored American National Standards and SMPTE Recommended Practices

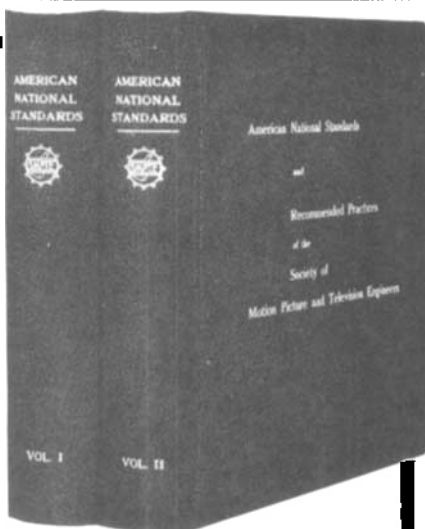
for convenience in assembling and storing your file of Standards and Recommended Practices.

Order these high-quality, durable leatherette ring binders, in sets of two, from SMPTE Headquarters. Price per set including mail charge: \$11.00: North American Continent; \$12.00: Elsewhere.



**Society of Motion Picture
and Television Engineers**

862 Scarsdale Ave., Scarsdale, NY 10583



to English for the Israeli armed forces. A number of feature motion pictures have been dubbed into Hebrew for the Israeli market. On the international scene, Zinkoe dubbed 185 TV episodes of *The Daily Fable*, produced in Dutch by Chanowski Productions Ltd. of Amsterdam for showing on Hong Kong TV. A pilot TV film by Zagreb Films of Yugoslavia was dubbed from Serbo-Croatian to English. A number of TV commercials were dubbed from English into Spanish and French.

Jack Delpit has been appointed Western Regional Sales Manager for Technicolor, Inc.'s Audio-Visual Systems Div., 299 Kalmus Dr., Costa Mesa, CA 92627. He was formerly Western Sales Manager for California Artists. In his new post he is responsible for sales activities throughout nine western states, including Hawaii.

Gary Thomson has been appointed Videotape Chief Engineer for Consolidated Film Industries, 959 Seward St., Hollywood, CA 90038. He was formerly Chief Engineer with the Vidtronics Company.

Robert Kaplan has been appointed Sales Manager for National Cine Equipment, Inc., 4140 Austin Blvd., Island Park, NY 11558, it was announced by Erwin Harwood, President. Mr. Kaplan was formerly East Coast Regional Sales Manager for Cinema Beaulieu.

Robert L. Schwartz has been appointed Sales Representative, Midwest Region, for Kalart Victor Corp., Plainville, CT 06062. His headquarters will be in Chicago. Kalart Victor manufactures audio-visual and educational television products.

Deane S. Thomas, Jr., has been appointed Senior Technical Associate, Photographic Technology Div., Eastman Kodak Co., at Kodak Park in Rochester, N.Y. Mr. Thomas began his Kodak career in 1938 as a research chemist in the Kodak Research Laboratories. In 1948, he transferred to the Photographic Technology Div. as a photographic engineer and in 1959 he was named a supervisor for reversal products and Kodachrome sections in the same division.

John (Jack) Dalton has joined Emil Neroda at The Sound Shop, Inc., 460 W. 54 St., New York, NY 10019, it was announced by Mr. Neroda. In addition to his responsibilities as sound mixer, Mr. Dalton will take an active part in the management of the company, the announcement stated. The Sound Shop operates three studios with complete recording and re-recording services.

Don Stults has been appointed Director of Marketing of the Acme Product Div. of PSC Technology Inc., 1200 Grand Central Ave., Glendale, CA 91201. The division manufactures and markets a full line of Acme Optical Printers, lamphouses, cameras and projectors. Mr. Stultz was formerly a Product Manager of the Stromberg Datagraphix Corp. of San Diego, Calif.

Save money on your
bleach costs.



Save money on Bleach Regeneration System.

Would you believe over a 20% saving on bleach costs? You should, because Hunt has developed the unique, low-cost Hunt Cine Color Bleach Regeneration System. It's reliable, easy to use and completely free of complicated procedures.

The system is based on reuse of your Hunt Cine Color Bleach overflow. By restoring the active bleaching agent. And that means your need for "new" bleach is drastically reduced.

Pollution abatement is another valuable benefit you get from the exclusive Hunt Regeneration System.

Professional laboratories and TV news departments will probably find that the most satisfying part of the Hunt System is its simplicity. All you need is a collection tank for the bleach overflow, the Hunt Cine Color Bleach Test Kit and Bleach Regeneration Chemistry.

This "uncomplicated" low-cost bleach regeneration system is only one reason why you should join the ranks of professionals using Hunt Cine Color Chemistry for processing Ektachrome films.

If you want to do something about lowering your bleach costs, and saving a piece of the environment, you should call a Hunt branch or sales office.



Imaging Specialists in Photographic and Platemaking and Reprographic Chemical Systems
PHILIP A. HUNT CHEMICAL CORPORATION
PALISADES PARK, NEW JERSEY • PHILIP A. HUNT COMPANY (CANADA) LTD. TORONTO