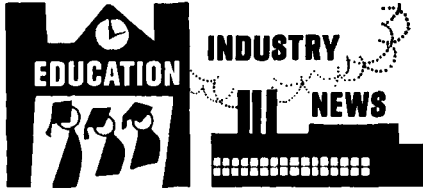


the Star Theater in Westbrook. As he tells above, in 1918 he joined the staff of the DeLuxe Strand Theater in Portland (as Head Usher). In 1921, following his appearance at the Strand as a saxophonist, he entered the University of Maine (remember the Maine Stein Song?) and the next year transferred to Yale. The rest, as they say, is history.



Frederick M. Remley, Jr., is the SMPTE appointee to the post of Chairman of the American National Standards Committee C98 on Combined Visual-Aural Magnetic

### SMPTE Exhibit Award



Wilton R. Holm, SMPTE Executive Vice-President, presents the SMPTE Exhibit Award plaque to Patrick Byrne of Kliegl Bros. Western Corp.

Recording for Television. The Committee operates under the American National Standards Institute. Mr. Remley succeeds Frank N. Gillette who held the post for more than eight years.

Mr. Remley is Technical Director of Broadcasting Service at the University of Michigan which includes radio stations WUOM and WVGR as well as the Television Center. For the last four years, he has been Chairman of the Society's Video-Tape Recording Committee, the preparatory group for American National C98 Standards. His work in the field of standardization is internationally recognized and he

Kliegl Bros. Western Corp., 4726 Melrose Ave., Los Angeles, CA 90029, is the recipient of the SMPTE 106th Conference Exhibit Award. The award-winning display of TV lighting equipments included a new 10-in Fresnel and focusing scoop, the Lilliput Twin using 5000-K daylight lamps, a multiscene control console and several other units. The Kliegl Bros. display competed with a field of more than 50 exhibitors. Displays were judged by a special committee on the basis of effectiveness, originality and overall interest.

SMPTE Executive Vice-President Wilton R. Holm presented the award, consisting of an engraved plaque, to Patrick Byrne as the representative of Kliegl Bros. Presentation ceremonies took place in Mr. Holm's office at the Association of Motion Picture and Television Producers where he is Executive Director of the AMPTP Research Center.

has been a United States delegate to CCIR (International Radio Consultative Committee) meetings held in Vienna in 1965 and in Oslo in 1966. At present he is Chairman of the United States Preparatory Committee of CCIR, Subgroup X-A on Television Standards

He is a Fellow of the Society. From 1963 through 1967 he was Manager of the Detroit Section and he was Topic Chairman of the Color Television Broadcasting Conference held in Detroit in January 1967.

At the University of Michigan he contributed to the design and construction of

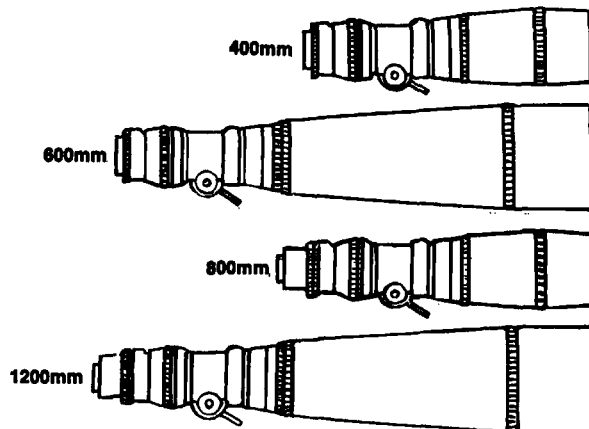
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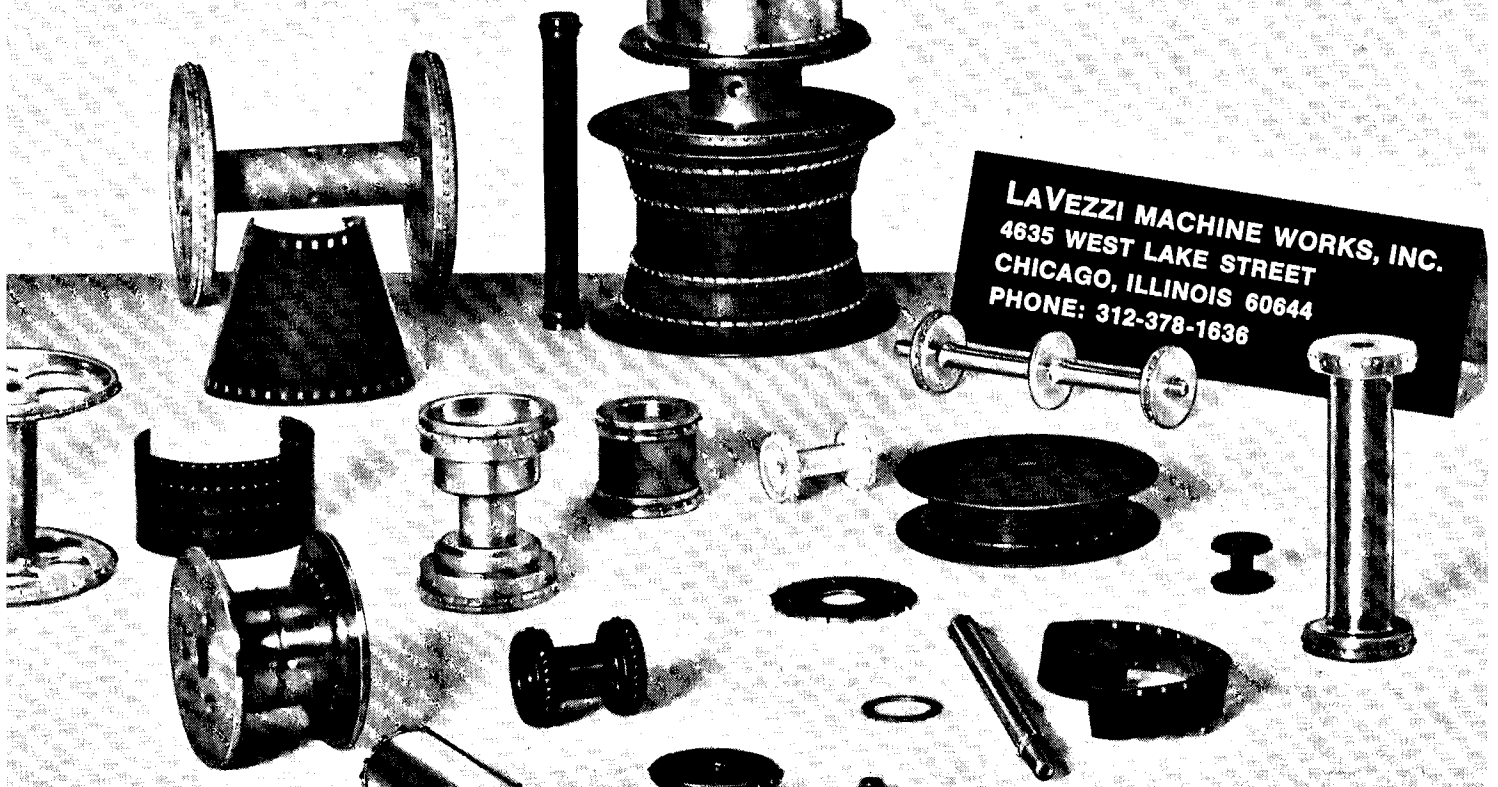
# SPROCKETS?

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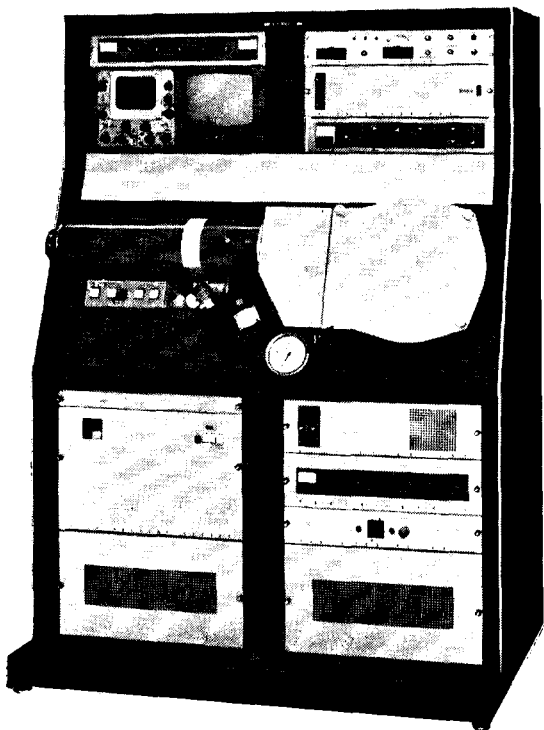
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Here's why:

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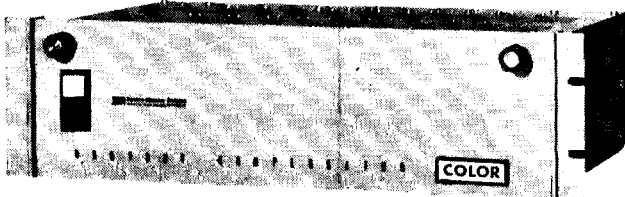
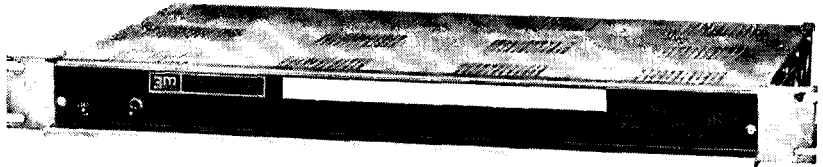
Most advanced tape to film transfer system in the world.



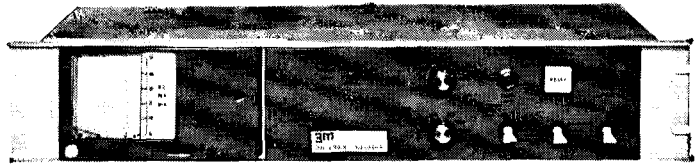
**Color Video Encoder** has (2) one-of-a-kind unique features. First, the color bar generator is completely digital. You get a signal that's accurate. It needs no adjustments. And it's easier to use and maintain. Second, input clamping of video signals eliminates low frequency hum, noise and other unwanted effects on the matrix. Works with smaller, less expensive cameras as well as large ones. The SMPTE color test will give you the proof. It meets all FCC and EIA specs. And features special monochrome switching.

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the Television Center and the medical color television facility.

The C98 Committee of which Mr. Remley is now Chairman is sponsored by the SMPTE and has the responsibility for the development of American National Standards in the field of magnetic video-tape recording.

**Multiple image entertainment**, a new multimedia concept, which involves the use of motion picture and slide projection on a 180° screen to provide the audience with a "multi-vision" experience has been announced by Bing Crosby and David M. Sacks who head a new firm called Electrovision Productions, Inc. The firm is presently forming a network of small (300 seats or less) theaters in major cities throughout the world. The theaters will be especially equipped to show the new computerized slide, film and sound features. The "multi-vision" productions will run about 30 minutes. The Electrovision presentations will be created by Leslie Buckland's Caribiner Productions. The first Electrovision production will be shown some time this spring in San Francisco.

**The first public demonstrations of color EVR** will be held March 24 at the Hotel Pierre in New York, it was announced by Robert E. Brockway, President, CBS Electronic Video Recording. A press showing will be held in the morning and demonstrations will be conducted from 4:30 to 8:00 PM for an invited audience of representatives of industry, education and entertainment. Among those expected to participate are Dr. Peter C. Goldmark, President and Director of Research, CBS Labora-

tories Division, Dr. Frank Stanton, President of CBS, Elmer H. Wavering, President of Motorola Inc., first North American licensee to manufacture the EVR player; Ralph O. Briscoe, President of CBS/Comtec Group; and Mr. Brockway. The EVR system was conceived and developed at CBS Laboratories under the direction of Dr. Goldmark. Both CBS Laboratories and CBS Electronic Video Recording are divisions of the CBS/Comtec Group.

**Production '70**, a workshop in television techniques (*Journal*, p. 135 Feb. 1970) was shown on video tape on March 4 at Reeves Lincoln Square Television Studios prior to a national roadshow. The roadshow version of *Production '70* has been edited to 7½ hours. The workshop includes demonstrations of some of the latest techniques in television production of commercials and programs including lighting, set design, cost control, video-tape editing and color. A similar roadshow toured the country last year following *Production '69*. Further information about the regional roadshows is available from the Director of Workshops, Reeves Production Services, 101 W. 67th St., New York, NY 10023.

**An Animation Workshop** will be held Aug. 24 - Sept. 4 on the campus of Ohio State University, Columbus, OH. The workshop will be sponsored by the University Film Assn. in conjunction with Ohio State University and will follow the annual UFA Conference that will be held the week of August 16, The Animation Workshop will be conducted by Dr. Roy Madsen, Executive Director of Film, San Diego

State University, who will be assisted by Francis Lee, a professional cinematographer, and by a professional animator. The workshop will cover storyboards, soundtracks, shooting scripts, art and cinematography for animation. Further information is available from: Animation Workshop, Dept. of Photography and Cinema, Ohio State University, Haskett Hall, 156 W. 19th Ave., Columbus, OH 43210.

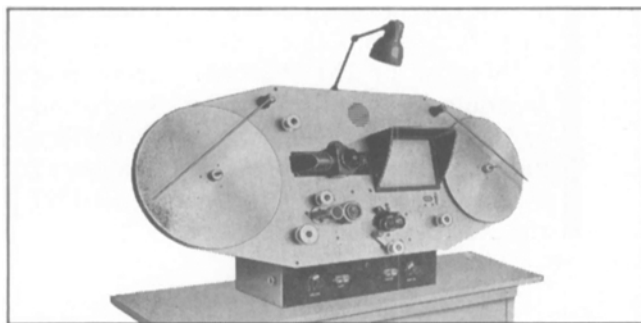
**The Colloquium on Image Amplification** will be one of the highlights of the 23rd Annual Conference of the Society of Photographic Scientists and Engineers to be held May 18-22 in New York, (*Journal*, p. 892, Oct. 1969). Scientists from five European countries, Japan and the United States will participate in the Colloquium. Papers Chairman for the five-day conference is Dr. W. E. Lee of Kodak Research Laboratories. Session Chairmen are Dr. T. H. James, Dr. Charles Bishop and Dr. John Marchant, all of Kodak; and Dr. J. E. LuValle, SCM Corp., Palo Alto, CA. SPSE headquarters are at 1330 Massachusetts Ave., N.W., Washington, DC 20005.

**Forthcoming seminars** announced by the Society of Photographic Scientists and Engineers, 1330 Massachusetts Ave., N.W., Washington, DC 20005, include a tutorial seminar on Applications of Photopolymerization to be held April 2-3 at Cherry Hill Inn, Cherry Hill, NJ, and a tutorial seminar on Low Light Level Imaging Systems to be held March 19-20 in La Guardia, L.I., NY. The SPSE Boston Chapter will hold a seminar on Computer

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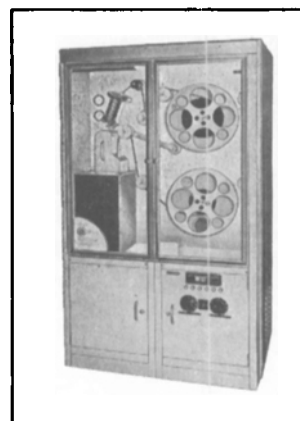
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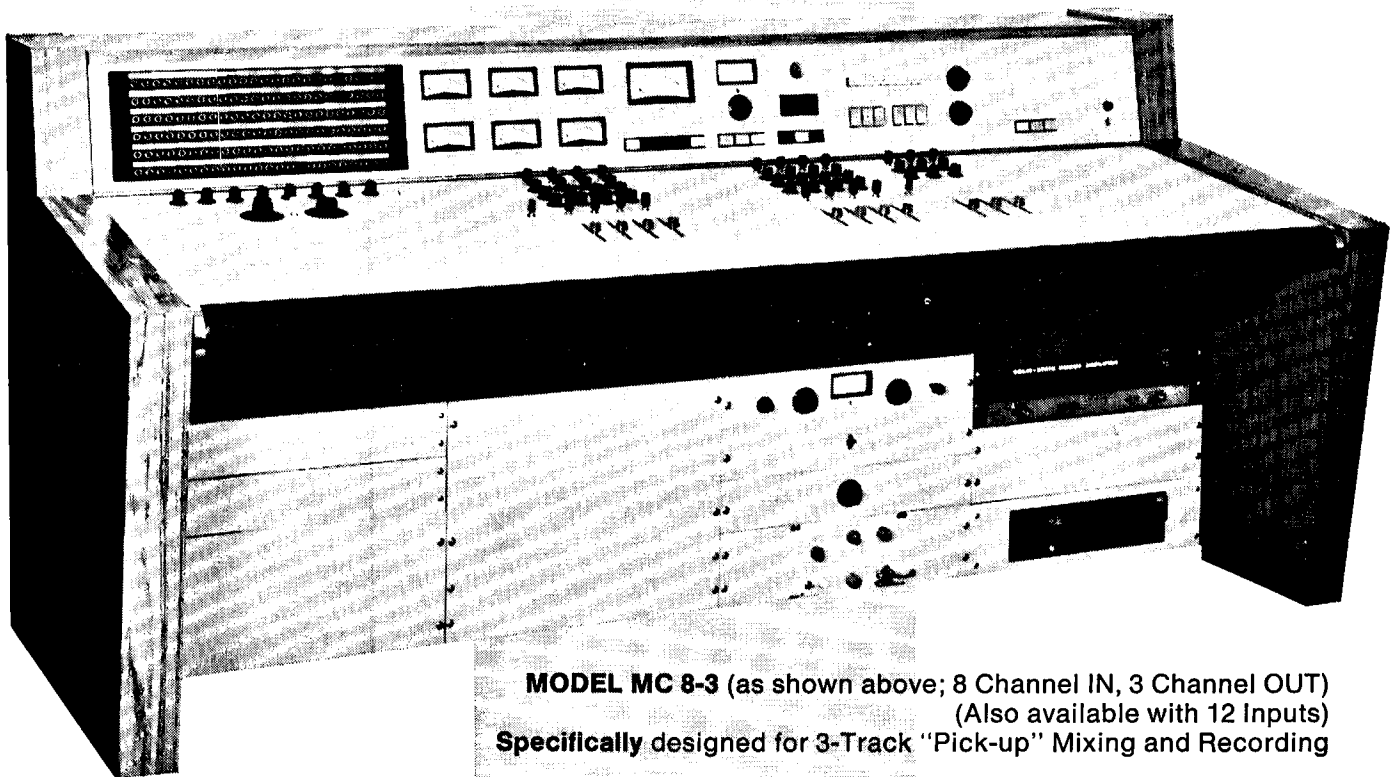
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Graphics July 10-11 at the Marriott Motor Hotel in Newton, MA. Two symposiums have been announced, the Spring Symposium on Electronic Sensing to be held April 13-15 in Palo Alto, CA, and a Symposium on Color Photography to be held October 21-24 in Washington, DC.

**The American Society for Engineering Education**, One Dupont Circle, Washington, DC 20036, will hold a conference in June on incorporating humanities and social sciences into engineering education under a grant from the National Science Foundation. The conference will be directed by Dr. Henry Knepler of the Illinois Institute of Technology. Emmett W. Lally will act as assistant director. The conference is a follow-up to a study on liberal learning for the engineer which was sponsored by the Carnegie Corp. of New York.

**The Third Scanning Electron Microscope (SEM) Symposium** will be held April 28-30 at Illinois Institute of Technology. The symposium will be sponsored by IIT Research Institute. Sessions on SEM techniques and instrumentation will be held as well as sessions on SEM applications in the fields of electronics, inorganic materials, organic materials, biology and medicine. Some 65 papers will be presented by scientists from 10 countries other than the United States. In the general category of instrumentation and techniques, topics will include time-resolution scanning microscopy, microcircuit failures, channeling patterns, resinography, magnetic domains and stereo-photography.

**The Fifth Festival of Technical Films** will be held in Budapest in April. Prizes will be awarded the best films in categories including Research, Documentary, Informatory, Product-Propaganda, Educational and Popular-Scientific. Films will be reviewed by an international jury April 9-18 and an International Round Table Conference on "The Role of Scientific and Technical Films in the Industrial and Scientific Progress" will be held April 15-16. Further information is available from The Organizing Committee, Vth Festival of Technical Films, Szabadság tér 17.I. em 145, Budapest, V, Hungary.

**Israel's film industry** is "experiencing an all-round boom," according to the *Film Centre Information Bulletin*, a publication of State of Israel, Ministry of Commerce and Industry, Palace Bldg, P.O.B. 299, Gershon Agron St., Jerusalem. The first issue appeared in December 1969. Besides noting that existing studies are being expanded the *Bulletin* reports that construction of new studios is under way and color developing and printing facilities are being expanded at Israel Motion Picture Studios at Herzliyah and Berkey-Pathe-Humphries at Givatayim. The *Bulletin* also reports on government incentives and financing and notes that the government now offers war risk insurance against damage caused by war operations and other hostile acts. Feature films in production are listed as well as Israeli films which received awards at national film festivals.

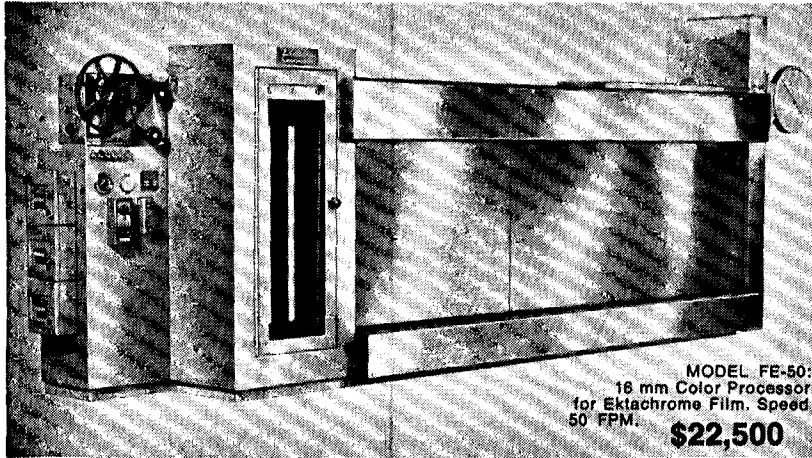
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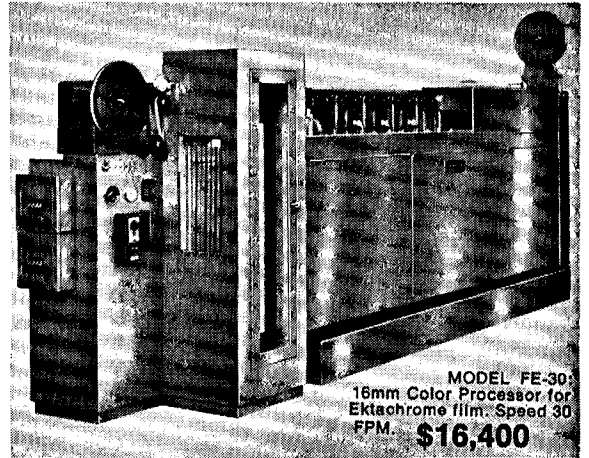
The Filmline Models FE-30 and FE-50 are fast, foolproof, troublefree and long-lasting. They turn out consistently superior work. The design is backed by Filmline's reputation as the world's leading manufacturer of film processors for the motion picture laboratory industry.

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16mm Color Processor for  
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- **"FILMLINE OVERDRIVE FILM TRANSPORT SYSTEM"**  
This marvel of engineering completely eliminates film breakage, pulled perforations, scratches and operator error. The film can be deliberately stalled in the machine without film breakage or significant change of film footage in solutions. The heart of any film processor is the drive system. No other film drive system such as sprocket drive, bottom drive or simple clutch drives with floating lower assemblies can give you the performance capability of the unique Filmline Overdrive Film Transport System.
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TV Stations: WAPI-TV, WHP-TV, WMAL-TV, WXYZ-TV, WWL-TV, WMAR-TV, WJXT-TV, KETV-TV, WTOP-TV, WEAT-TV, WCKT-TV, WAVE-TV, WAVY-TV, KTVI-TV, WCPQ-TV, KTAR-TV, WSYR-TV.



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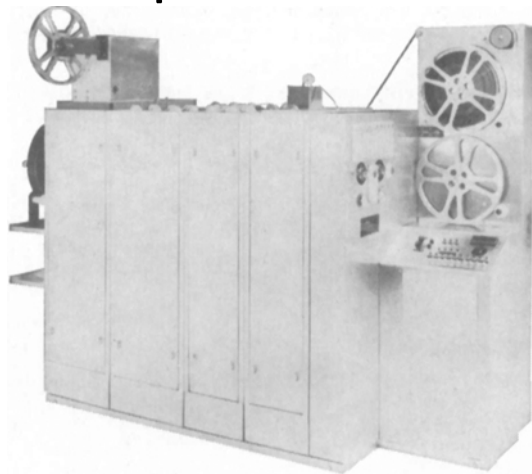
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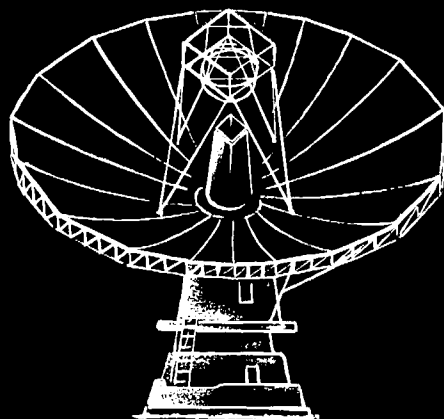
**Abstracts of Photographic Science and Engineering Literature (APSE)** is now published (beginning with the January 1970 issue) for the Society of Photographic Scientists and Engineers by the Rochester Institute of Technology's Graphic Arts Research Center (GARC). *APSE* has previously been published for SPSE by Engineering Index, Inc., New York. *APSE* has been providing abstracts of more than 3,000 significant articles and patents each year covering the major developments in the photographic field.

**The First Northeast Conference on the Individualization of Instruction** sponsored by the Northeast Association for the Individualization of Instruction and the New York State Department of Education was held in January at the Milton L. Olive Elementary School in Wyandanch, NY. Purpose of the Conference was to familiarize educators with the various inventions for the individualization of instruction and to provide a working knowledge of such inventions, including computer-assisted instruction, individual study units, Unipacs, learning activity packages and differentiated staffing. Workshop sessions were held to give educators an opportunity to use various educational devices as they would be used in classroom situations. A number of educational films were shown. Conference leaders included professors of education and administrators from various schools, colleges and universities. Further information is available from Northeast Association for the Individualization of Instruction, Wyandanch Public Schools, Straight Path Road, Wyandanch, NY 11798.

**PLAN**, Westinghouse Learning Corp.'s new system of individualized education presently in use in 63 schools in nine states, was demonstrated at the 1970 National Laboratory for the Advancement of Education held in January in Washington, DC. A group of 30 first-graders and their teachers from the Woodland Avenue Elementary School, Hicksville, NY, participated in classroom demonstrations.

**MFC Film Production, Inc.**, of Houston, TX, has announced construction of a motion-picture production center and sound stage at 5915 Star Lane in Houston. The production center will house offices, conference-viewing room and editing rooms. The audio facility will contain a new interlock projection system. The sound stage will be equipped to handle all film production requirements and will be available to all producers. Two mobile film units with cameras, lights, sound and self-contained generator will also be available. The building covers 5,000 ft<sup>2</sup>.

**Bolex International S.A.** of Ste-Croix, Switzerland, is a new organization created by the Eumig Group, of Vienna, Austria, and Paillard S.A. to promote and distribute internationally all Bolex products. All existing Bolex distribution outlets will be utilized. In the United States, the distributor of Bolex products is Paillard Inc., 1900 Lower Road, Linden, NJ 07036. It was noted in the announcement that the legal and financial independence of the two com-



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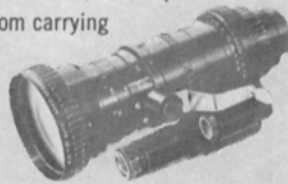
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panies is not affected by the agreement. It was also announced that the development departments of Eumig and the Paillard S.A. Designing Department in Yverdon, Switz., will be coordinated for the research and development of new motion-picture equipment.

**National Television Systems, Inc.**, of Los Angeles, has officially become Rank Precision Industries, Inc., it was announced by G. Dato, Marketing Manager of Rank Precision's Broadcast Division. The change in name results from the consolidation of the Rank Organisation's North American activities (*Journal*, p. 135, Feb. 1970). The California group will continue at 4351 Tujunga Ave. in Los Angeles. It is essentially a sales and service organization operating in the area of television and motion-picture lenses sold under the Rank Taylor Hobson, Speed Panchro, Monital and Varotol names.

**The National Association of Photographic Manufacturers** has agreed to assume the responsibility of assignor of Film Identification Notch Code Combinations for super 8 film, according to a recent announcement. All records have been transferred from the American National Standards Institute, Inc. (ANSI) to the National Association of Photographic Manufacturers, Inc. (NAPM). Requests for Film Identification Notch Combinations should be addressed to: Manager, Technical Services, National Association of Photographic Manufacturers, Inc., Harrison, NY 10528.

**Opticon Systems**, 3757 Hayvenhurst Ave., Encino, CA, is a new consulting firm which has been established to provide optical design and analysis services and to provide assistance in utilizing computers to solve optical problems. President and Senior Consultant of the new firm is Allen Mann. He was formerly Manager of Lens Design at Electro-Optical Systems, Inc., a Xerox Company.

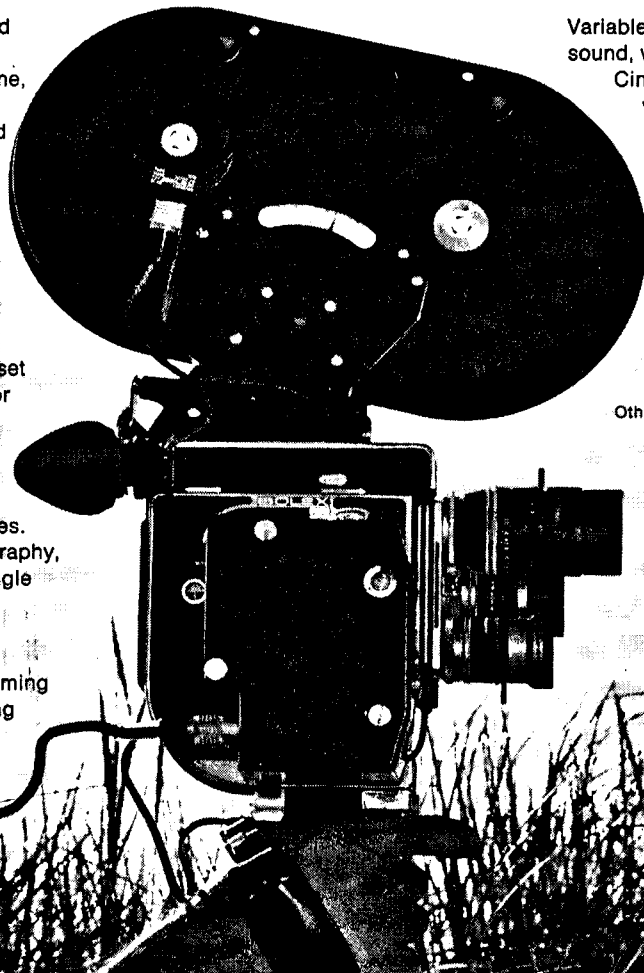
**Byron Motion Pictures**, 65 K St., N.E., Washington, DC 20002, has added several new facilities as part of an extensive expansion program, it was announced by Byron Roudabush, President. The firm can now produce magnetic super 8 color prints by reduction from standard 16mm internegative and 16mm magnetic sound film and all 35mm color services are now available, including filmstrip and slide production. Newly installed equipment includes the Ampex VR 2000 2-in tape recorder, the Ampex VR 7800-16 1-in helical scan tape recorder and the Palmer 16mm color kine recorder. Expansion plans also include the building of a complete video-tape facility on newly-purchased land adjacent to the present plant. Production facilities will include several sound stages and one large Hollywood-type sound stage.

**Calvin Communications, Inc.**, has announced the purchase of the Pershing Building at 215 West Pershing Rd., Kansas City, MO, to provide corporate headquarters. The firm now operates in Kansas City, MO, Independence, MO, Philadelphia, PA, and Louisville, KY. Calvin's



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\*Kern Switar lenses were selected to film the moon landing.

motion-picture laboratories and sound stages will remain at the present location at 1105 Truman Rd. It is a coincidence that Calvin Communications was "born" in the Pershing Building in 1931 when Forrest Calvin rented a room in that building and founded the Calvin Company.

**All Information Systems** is the new name of the firm formerly known as FMA, Inc. The firm, a division of Cutler-Hammer, is located at 5730 Arbor Vitae St., Los Angeles, CA 90045. The newly named organization will continue to develop and build equipments for document storage and retrieval systems, image analyses, photo processing systems, automatic densitometry

and high-speed contact printers, and remote data collection systems.

**A new Kodak Color Processor** has been installed at Data Corp.'s Industrial Products Division, 7500 Old Xenia Pike, Dayton, OH 45432, it was recently announced. The newly installed processor can process color film 70mm, 5-in and 9.5-in wide in any length and it keeps chemical formulas consistent during development automatically. Previous installations include the LogEtronic Mark II Color Contact Printer.

**S.O.S. Photo-Cine-Optics, Inc.**, has moved to new quarters at 40 Kero Road, Carl-

stadt, NJ 07072. The new facility covers 40,000 ft<sup>2</sup> and is designed as a modern and complete center for motion-picture and television equipments.

**Lasermetrics** is the new name of the firm formerly known as Crystalab Products Corp. The firm is located at 19 Legion Place, Rochelle Park, NJ 07662. The firm's products include Q-switches, low voltage light modulators, electronic instrumentation and basic crystals for a full range of laser applications.

**Motorola Inc.**, 4501 W. Augusta Blvd., Chicago, IL 60651, has announced the creation and a new unit called Education and Training Products. Main concern of the unit will be the marketing of Electronic Video Recording (EVR). In addition to manufacturing and marketing EVR, Motorola will distribute program materials in the EVR format.

**Hollywood Film Co.**, 956 N. Seward St., Hollywood, CA 90028, has been appointed West Coast representative for the sale of motion-picture products manufactured by Fuji Photo Film U.S.A., Inc., according to a recent announcement. An expansion of the warehousing capacity of Hollywood Film Co. was recently announced by Harry Teitelbaum, President. According to Mr. Teitelbaum this expansion will provide the necessary greater and more efficient service to the motion-picture industry on the West Coast.

**Chris McGuire, Inc.**, has announced construction of new headquarters at 12384 S.W. 82nd Ave., Miami, Fl. It was also announced that 15 Chris McGuire Cinemas now under construction are among 60 expected to be in operation by the end of 1970, including 29 that are already in operation.

**RCA Corp.** is studying a computer-based system that could identify an individual by his "voiceprint" as reliably as by his fingerprints, according to a recent announcement. The program is sponsored by the U.S. Army Electronics Command, Ft. Monmouth, NJ. Speech recognition systems employ computer circuitry and are based on phonemes (the smallest units of speech). About 40 phonemes comprise the English language. Energy levels for each spoken phoneme vary from speaker to speaker and this variation is the basis for the possible use of speech recognition in identity authentication. In a possible system, a special circuit card could be prepared for each person for whom authentication would be required. To verify identity, a person's voice could be fed into the system to be compared electronically against the card in a manner similar to that of comparison of fingerprints.

Earlier, a system of classification of voices by means of spectrograms called voiceprints was developed at Bell Telephone Laboratories (*Journal*, p. 604, August 1962).

**Radiochromic Dyes Used to Look at Radiation Beams** is a discussion in the October 1969 *Technical News*, a bulletin issued by the National Bureau of Standards,

# The new Norelco FP-16 16mm Projector that...

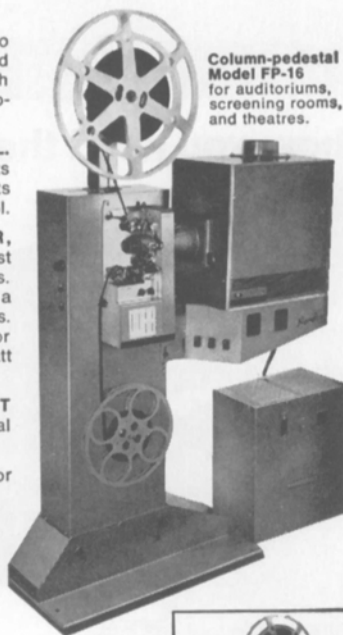
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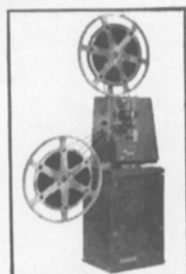
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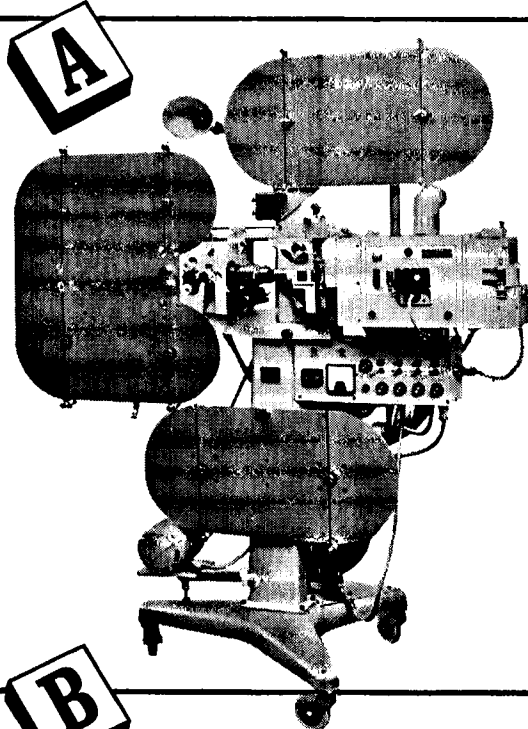
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35mm to Super 8mm  
16mm to Regular 8mm  
16mm to Super 8mm

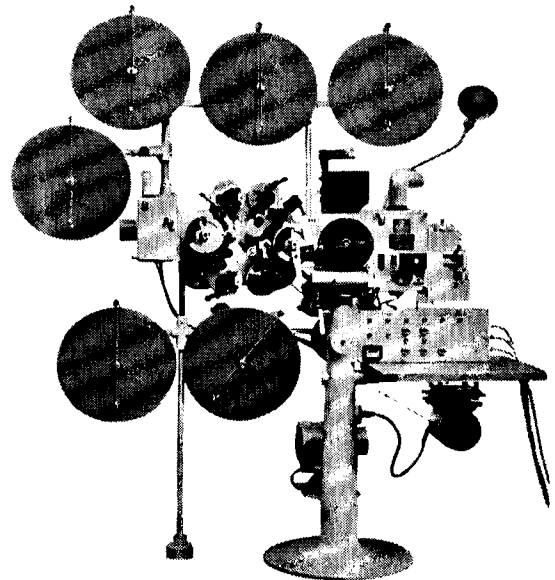
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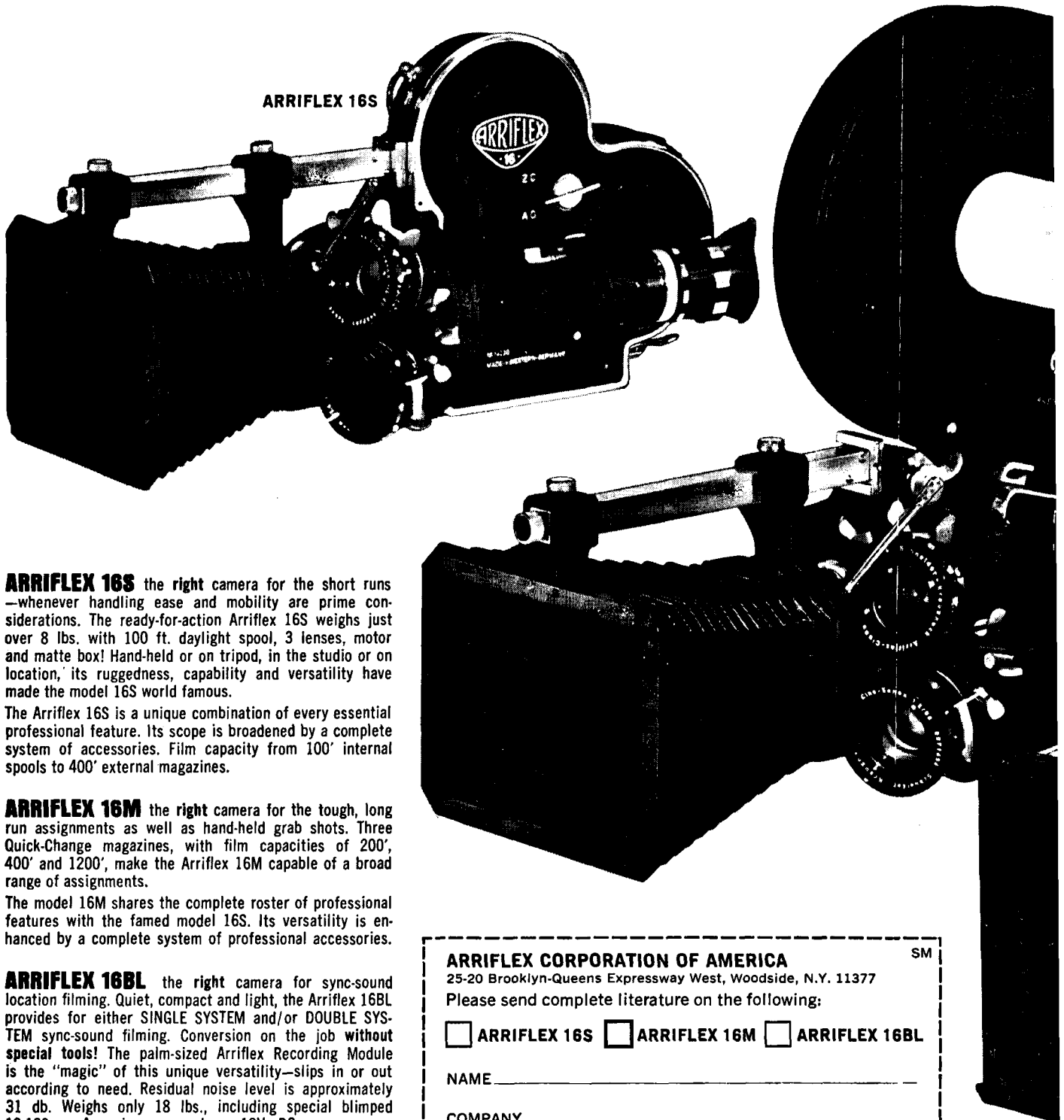
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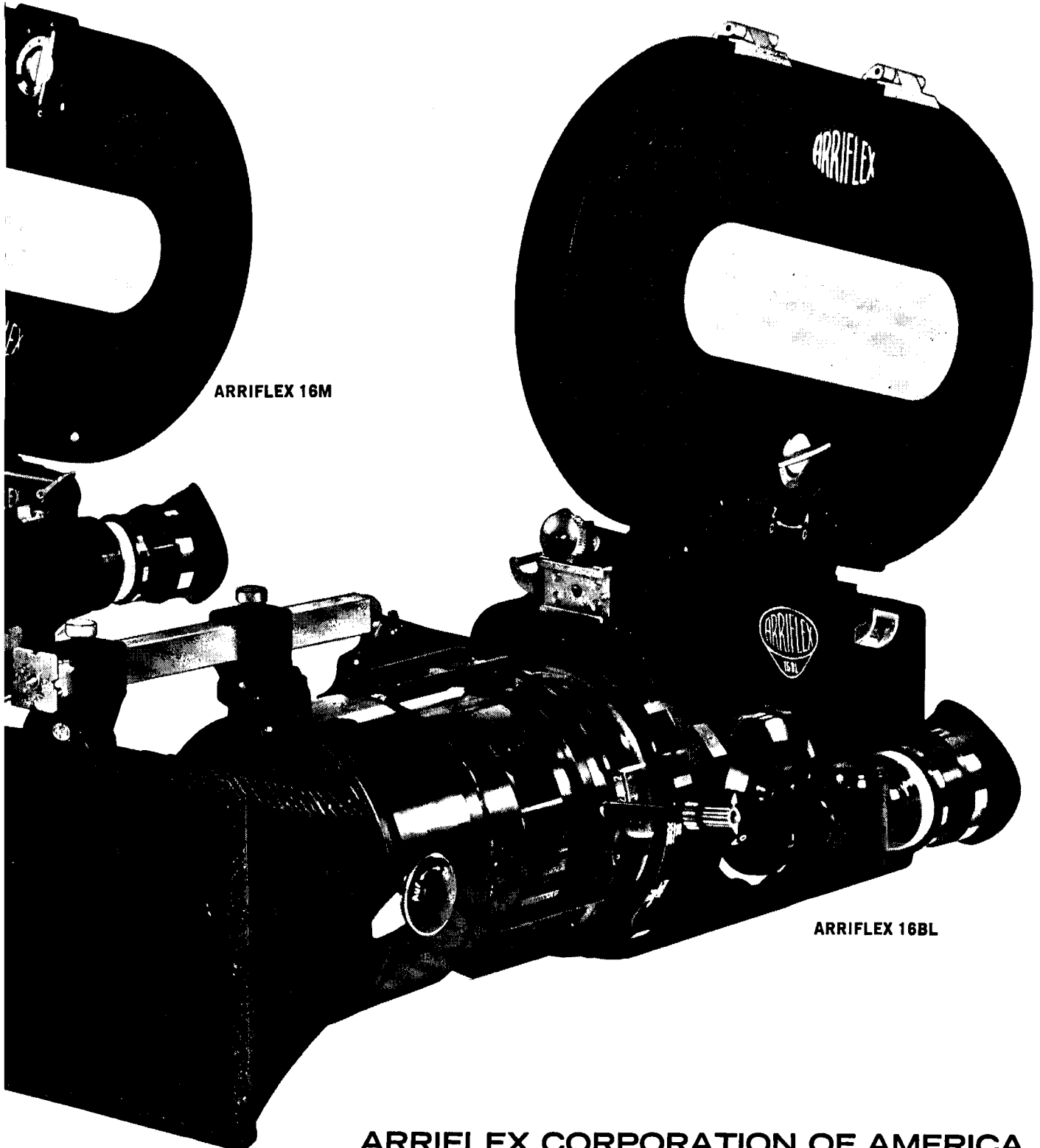
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Office of Technical Information and Publications, Room A500/101, Washington, DC 20234. According to the bulletin, some radiochromic dye precursors, initially colorless, acquire a characteristic color when subjected to radiation. The gradual formation of color is caused by molecular reorientation resulting from bonds polarized by absorbed radiation. Physicists at the National Bureau of Standards, U.S. Department of Commerce, have developed a radiation measurement procedure employing dye films and gels that provides a simple and relatively accurate calibration of radiation beams and measurements of radiation dose distributions.

**Wilton R. Holm**, Executive Director of the Research Center of the Association of Motion Picture and Television Producers, spent three weeks (beginning January 14) in Moscow and Tokyo studying Russian and Japanese production and staging techniques. He was in Moscow at the invitation of the Soviet government to include Russian technology in a worldwide stage study conducted by the AMPTP Research Center. While in Moscow he visited Mosfilm, the Soviet studio complex, and Nikfi, the photographic and sound research institute. In Tokyo he met with leaders of the Japanese motion-picture industry to discuss stages and lighting equipment and he also met with Japanese lens manufacturers.

**Harry F. Olson** is the recipient of the IEEE Lamme Medal for "pioneering and

continuing leadership in the field of electroacoustics, notably the invention and development of the velocity microphone." Dr. Olson is Advisor to the RCA Laboratories, Princeton, NJ. He is a Fellow of the Society. In 1955 he was presented with the Samuel L. Warner Memorial Award. The citation read, in part, "for outstanding achievements in audio engineering, including, his work on the velocity microphone and the duocone speaker for high-fidelity sound reproduction."

**Dennis Gabor** is the recipient of the IEEE Medal of Honor for "his ingenious and exciting discovery and verification of the principles of holography." Dr. Gabor, who is Professor Emeritus, Department of Electrical Engineering in the Imperial College of the University of London, is a consultant to CBS Laboratories and was a member of the scientific team from CBS Laboratories which developed Electronic Video Recording under the direction of Dr. Peter Goldmark. Among Dr. Gabor's other achievements are numerous mathematical contributions to the advancement of communications and color television.

**Norman C. Cooke** has resigned his position as Vice-President of California Communications Inc. and The Pacific Network Inc. to devote his full time to his company, Abbey Tape Duplicators. The company was started about a year ago as a part-time operation in the back of a typewriter repair shop and in June moved to larger quarters

at 737 N. Seward St., Hollywood. The company is a custom duplicator specializing in cassettes with a present duplicating capacity of 1,500 cassettes per day. Present plans call for a capacity of 5,000 per day in April and 10,000 by July.

**Jack D. Hublou** has been appointed Vice-President of Corporate Development for Computer Image Corp. of Denver, CO, and Richard D. Rush has been elected Vice-President of Finance, it was announced by Bruce L. Birchard, President of the company. The firm has recently been commissioned to produce the titles for Winters/Rosen Productions CBS-TV special, *Raquel*, using the Scanimate which requires only one drawing to produce many varieties of animation.

**Marion Rimmer** has been appointed National Sales Manager for Berkey-Color-Tran, 1015 Caestnut St., Burbank, CA 91502. He has been with the firm since 1968 and was formerly Western Market Manager. In his new post he will be responsible for sales and marketing.

**Herbert E. Torberg** has been appointed President of the Electro-Optical Division of Kollmorgen Corp., it was announced by Joseph Kalla, President of the Electro-Optical Systems Group of the Corporation. Mr. Torberg has been affiliated with Kollmorgen since 1952. Prior to his present appointment he was Executive Vice-President of the Division.

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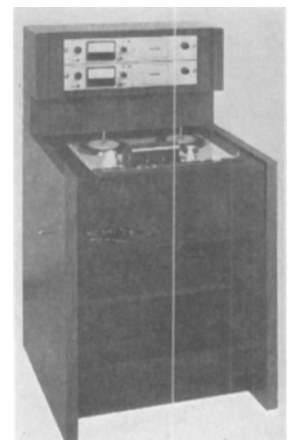
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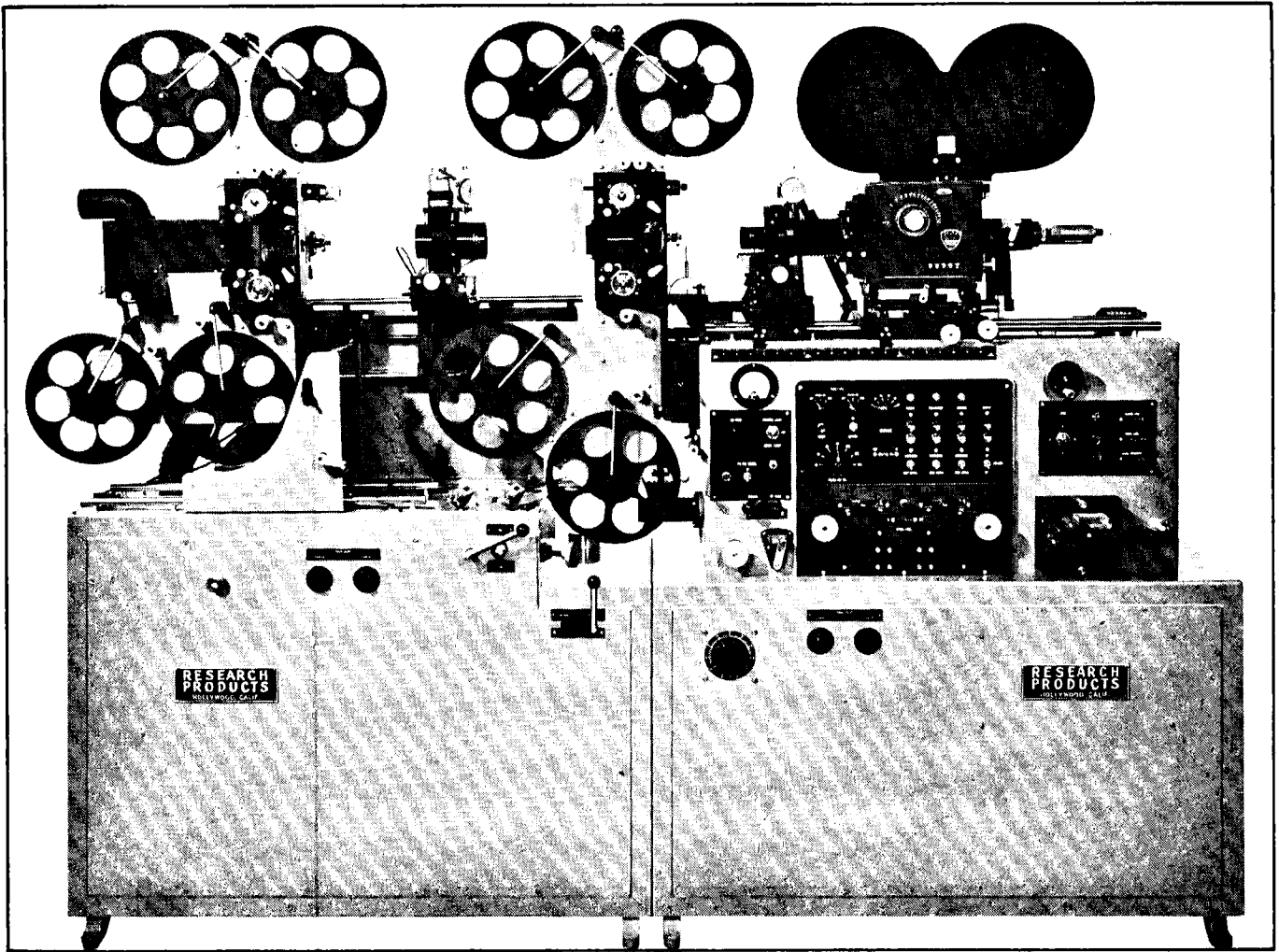


Shown are the Models 800-1 Full Track  $\frac{1}{4}$ " and Stereo  $\frac{1}{4}$ ". Also ready for delivery are 4-track  $\frac{1}{2}$ ", 8-track 1", and High-speed systems for cartridge and cassette duplication.

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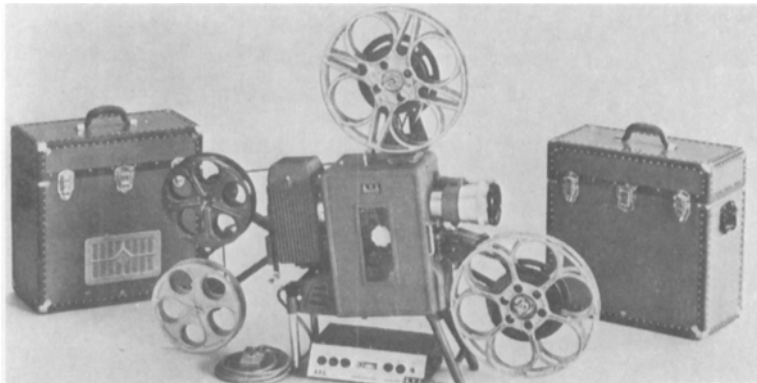
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**Paul R. Rutan** has been appointed Vice-President and General Manager of the Movielab-Hollywood plant, it was announced by John J. Kowalak, Executive Vice-President in charge of Engineering and Overall Plant Operations for Movielab, Inc., 619 West 54 St., New York NY 10019. Mr. Rutan was President of the Berkley Pathe Hollywood Laboratory prior to its acquisition by Movielab.

**James C. Cunningham** has been elected Vice-President of 8 Track Recording Co., 664 N. Michigan Ave., Chicago, IL 60611. He had been Chief Engineer of 8 Track since its founding and was responsible for design of the studios and equipment. Mr. Cunningham has specialized in the development of stereo recording techniques and is the author of a number of technical articles. With Robert Oakes Jordan he is co-author of *The Sound of High Fidelity*.

**Richard Lebre** has been appointed Sales Manager of Movielab-Hollywood, Inc., it was announced by Kenneth Coleman, Vice-President in charge of Sales for the West Coast subsidiary of Movielab, Inc., 619 W. 54 St., New York, NY 10019. Mr. Lebre was formerly West Coast Sales Manager for Pathe Laboratories.

**Don Davis** has been appointed Director of Commercial Sound Products for Altec Lansing, a division of LTV Ling Altec, 1515 South Manchester Ave., Anaheim, CA 92803. Prior to his new assignment Mr. Davis was Manager of Altec's Acoustavoicing program. He is one of the co-inventors of the Acoustavoicing process. He has been with the firm since 1959. In his new post he will coordinate and direct all marketing and sales activities for all audio controls, commercial sound and Acoustavoicing products.

**Eli Passin** has been appointed Vice-President of Gotham Audio Corp., 2 W. 46 St., New York, NY 10036, it was announced by Stephen F. Temmer, corporation President. Also announced was the founding of Telden Sales Corp., a new affiliate created to act as leasing and financing agents for Gotham Audio Products.

**Glen R. Snider**, formerly Executive Vice-President of Mitchell Camera Corp., has been elected President, it was announced by William C. Warren, Chairman of the Board of Directors. Before joining Mitchell Camera, Mr. Snider was Manufacturing Manager and Deputy Manager of the Electronic Division, Otis Elevator Co.

**Bruce K. Helgeson** has been appointed Assistant Director of Research and Development, of the Clayton Chemical Division of American Photocopy Equipment Co. (APECO), 2100 Dempster, Evanston, IL 60204. Clayton Chemical Division produces developing fluids for lithographic, x-ray and general photographic applications. APECO products include photomechanical equipment, video tape and closed-circuit television.

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