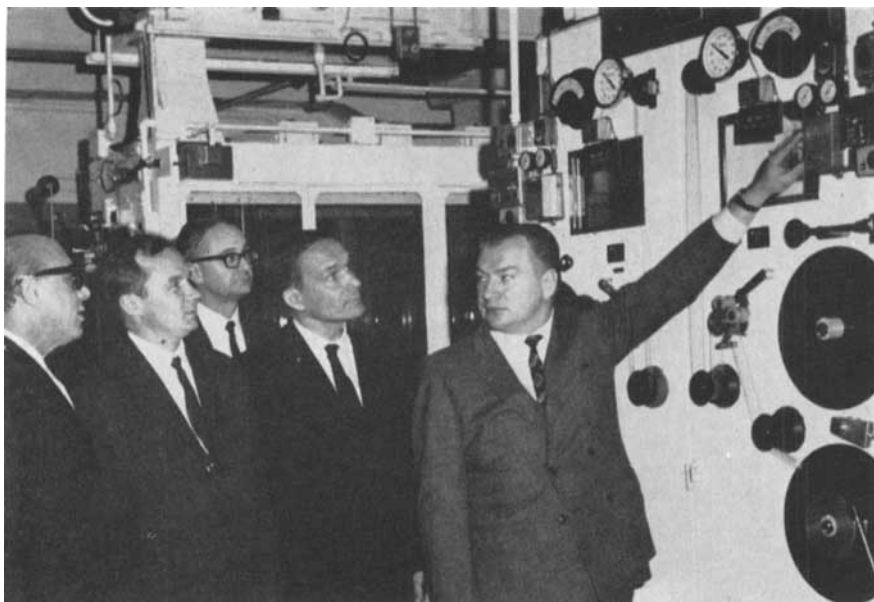


Visit by USSR Experts

One of the notable events of the recent 104th Conference in Washington was the visit of two eminent motion-picture engineers from Russia. Dr. Victor G. Komar, Director of the Cinema and Photographic Research Institute, NIKFI, Moscow, who has attended previous SMPTE Conferences, gave a paper describing some of the recent experimental work at NIKFI on varioscopic cinematography, in which the image ratio on the screen changes in the process of film presentation according to its contents. Accompanying Dr. Komar was Mr. George B. Alexandrovich, Chief Engineer of the Motion Picture Laboratory and Processing Facilities, Moscow.

During the week they spent in Washington, arrangements were made for Dr. Komar and Mr. Alexandrovich to visit some local facilities. Following the Conference, the two Russian visitors briefly visited Chicago, where they were shown the facilities of the George W. Colburn Laboratory, Inc., and Kansas City, for a tour of Calvin Productions, Inc. Their



Russian motion-picture engineers visit Movielab. Shown above (L to R) are: Saul Jeffee, President of Movielab; George B. Alexandrovich, Chief Engineer, Motion Picture Laboratory and Processing Facilities, Moscow; Alex E. Alden, SMPTE Staff Engineer; Dr. Victor G. Komar, Director, Cinema and Photographic Research Institute, NIKFI; and John J. Kowalak, Movielab Vice-President and Director of Technical Operations.

final visit was to New York, where they toured Movielab, Inc., Deluxe Laboratories, Inc., and Cine-Magnetics, Inc. In the picture above the two Russian visitors are shown examining some of the equipment at Movielab.

The American Astronautical Society and the Operations Research Society of America will hold a joint national meeting June 17-20 in Denver, Colo. Theme of the meeting will be Challenges of the 70s in Space and Public Domain. Invited lec-

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tures will take up such topics as Defense in the Space Age; Space Science Goals; The Search for the Nature of Life and Its Laboratory Production; and The Breakthroughs of the 70s and How to Capitalize on Them. Such wide-ranging topics as urban planning, use of extra-terrestrial resources, religious and philosophical aspects of space flight; and management of recreational, wildlife and cultural resources will be discussed. An exhibit will be held. Participating societies are the Rocky Mountain Section of AIAA; American Institute of Biological Sciences; Institute of Management Sciences; Working Group of Extraterritorial Resources and Society of Logistics Engineers.

The Photography Hall of Fame, sponsored by the Photographic Art and Science Foundation, 1090 Executive Way, Des Plaines, Ill. 60018, was dedicated October 25. A highlight of the celebration was the presentation by Paul Linwood Gittings, Chairman of the Foundation's Board of Trustees, of a citation to Eastman Kodak, honoring George Eastman for his "inventive genius, leadership and organizing powers which developed an industry and brought photography into the homes and lives of everyone." George Eastman is the fourth individual to be elected to the Photography Hall of Fame. Others are Louis Daguerre, Joseph Niepce and Henry Fox Talbot.

The American Film Institute and the Library of Congress have announced that

Compagnie d'Entreprises et de Gestion has deposited preprint (negative and positive) materials from the RKO Film Library in the National Film Collection at the Library of Congress. Some 740 feature films and 900 short subjects produced in the 1930's and 1940's are included in the deposit. Compagnie d'Entreprises et de Gestion controls all film exhibition and television rights to the films in countries except the United States and will have access to the collection for further printing as required. Directors represented in the collection include such famous names as Orson Welles, John Ford, Alfred Hitchcock, Jean Renoir and many others. Such all-time screen classics as *Citizen Kane*, *The Informer*, *Suspicion* and *Woman on the Beach* are among the many distinguished films now on deposit.

The Library of Congress began collecting motion pictures in 1894 when the first films were registered in the Library's Copyright Office. By June 30, 1968, the Library's Motion Picture Section had in its custody more than 92,000 reels of film. Until the U.S. Copyright Law was amended in 1912 to provide specifically for registration of films, film producers deposited paper prints. Many historic films are not yet represented in the national collection. AFI is engaged in a campaign to find the best surviving copies of American films.

Contemporary Optics, a two-week course on the background to, and activities in, contemporary optics, will be held July

28 - August 8, 1969, at the University of Rochester. The course will be under the direction of and taught by the faculty of the Institute of Optics. Four major areas will be discussed: Fourier Optics, Quantum Optics, Geometrical Optics and Optical Physics. Further information is available from Contemporary Optics, Institute of Optics, College of Engineering and Applied Science, University of Rochester, Rochester, NY 14627.

The first Electro-Optical System Design Conference will be held September 16-18 in New York. The conference has been organized by Industrial and Scientific Conference Management, Inc., 222 W. Adams St., Chicago, IL 60606. A technical program is being planned and papers will be presented on various topics including information display, holography, microscopy, electrooptical communications, satellite photography, television, fiber optics, infrared detection and others. An exhibit will be held in conjunction with the conference.

The American Foundation on Automation and Employment, 452 Fifth Ave., New York, NY 10018, will sponsor a Job Film Fair to be held May 21-22 at the Americana Hotel in New York. Intended as an approach to a national jobs campaign for unemployed and underprivileged persons, films used for training purposes by industrial and vocational organizations will be shown. Awards will

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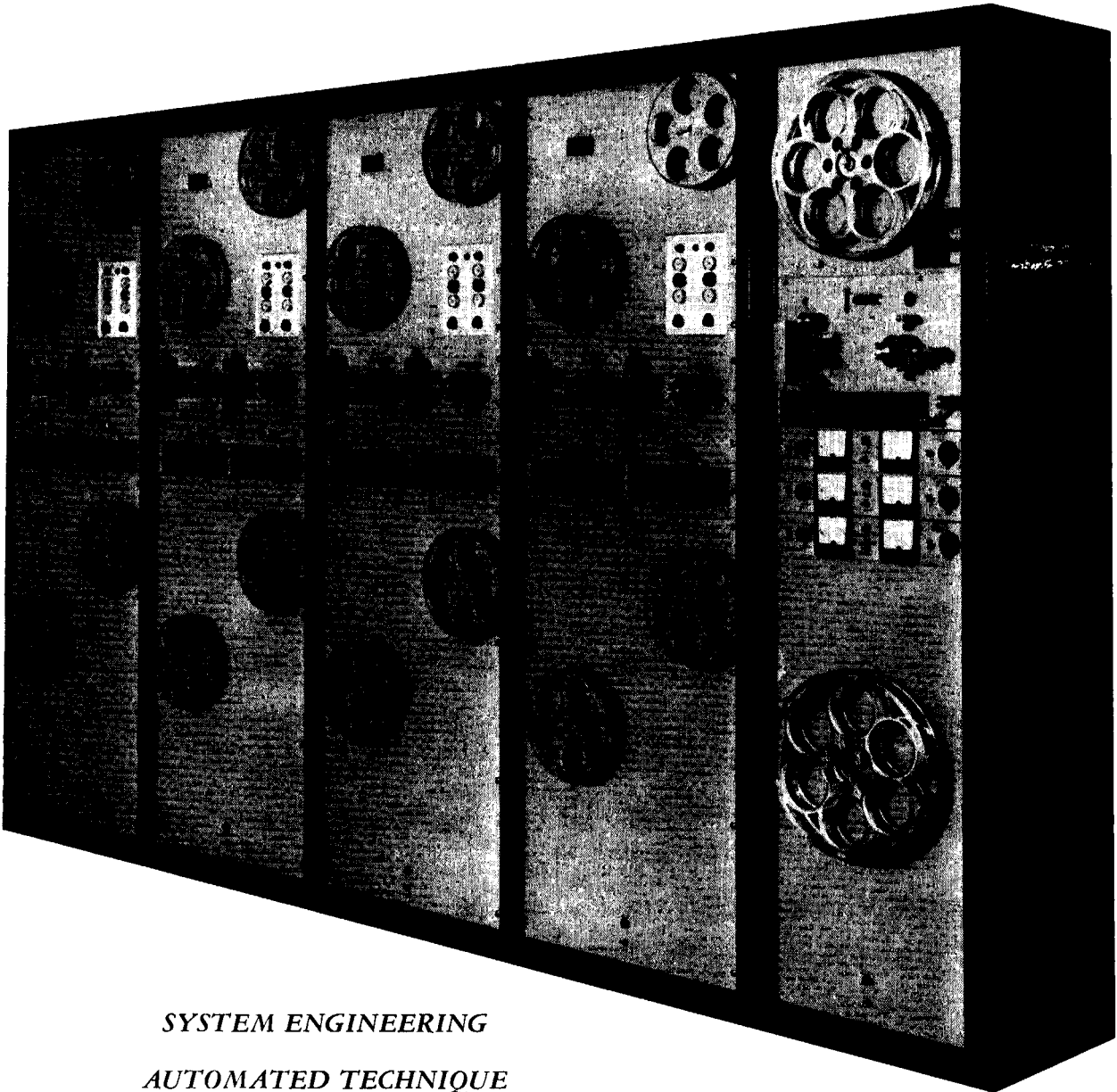
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be presented for outstanding films in four categories: (1) movies made by industry, (2) those made by educational institutions, (3) those produced by commercial film companies and (4) those which best convey a sense of group pride and a better understanding of the "ghetto situation."

National Instructional Television (NIT), Box A, Bloomington, IN 47401, is a central source of educational television materials. A folder, available from NIT, lists reports that consider the results of NIT's work as well as the findings of other pertinent projects. The materials listed are designed for those engaged in instructional television, classroom teachers, curriculum supervisors and administrators and interested members of college and university faculties.

A **Key-Word-In-Context (KWIC) Index** of some 16,000 standards in the library of the Information Section of the Office of Engineering Standards Services of the National Bureau of Standards has been completed. The Index has been printed by computer and is available from the Bureau (Washington, DC 20234) to provide information on published standards. The Information Section will function as a referral activity as well as a technical standards library. By means of the KWIC Index inquirers can be referred to the organization which can supply copies of the appropriate standard.

Technicolor, 6311 Romaine St., Hollywood, CA 90038, has announced a new licensing program to increase facilities for loading super 8 film into cartridges. License agreements have been entered into with a number of firms to load silent Magi-Cartridges and optical sound Movie Cartridges used with Technicolor 8mm and super 8 Instant Movie Projectors. Announcement was made by Robert T. Krciman, Vice-President and General Manager of Technicolor's Commercial and Educational Division. A license agreement has been made with Super 8 City, Alexandria, Va., it was announced by Frank Silva, Manager of Super 8 City. Other firms included in the licensing program are International Communication Films, Santa Ana, CA; Bonded Services, New York; Reela Film Labs, Miami; Audio-Graphics, Los Angeles; and Modern Trim, New York.

A further development of the Bell Telephone **PICTUREPHONE** links it to a computer to display various data such as news headlines, stock market and weather reports, production schedules, sales charts, and the like. The present **PICTUREPHONE** permits face-to-face conversation on the telephone. The new model is expected to become available some time in the 1970's.




The Hollywood Film Company, 956 N. Seward St., Hollywood, Calif. 90038, has


acquired the Wil-Mar Manufacturing Co. of Pasadena, Calif., according to a recent announcement. Hollywood Film Co. is co-owned by Ben and Harry Teitelbaum. Wil-Mar is a job shop manufacturer specializing in the production of components for the aircraft, optical and photographic industries. Acquisition of Wil-Mar provides the additional manufacturing facility required for HFC's expansion program into the field of motion-picture printing equipment, the announcement stated.

Philip A. Hunt Chemical Corp., Palisades Park, N.J. 07650, has announced acquisition of all of the outstanding stock of Industrial Dyestuff Co. Present intentions are that the firm will be operated as a subsidiary of Hunt. Industrial, a Rhode Island Corporation, was organized in 1922 for the purpose of manufacturing, selling and dealing in dyestuffs and chemicals for the textile industry; however for about 15 years it has been engaged mostly in the manufacture and sale of specialty organic chemicals which are primarily used by the reproduction paper and photographic chemical industries. Hunt manufactures photographic, graphic art, x-ray and electrostatic chemicals. Paul Tobey will continue as President of Industrial.

F&B/Ceco Industries, Inc., has acquired the Studio City stages in North Miami, Fla. The name will be changed to F&B/Ceco Studios and the studios will be

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<p style="font-size: small;">TEL ANIMA-ANIMATION DISC W/SINGLE PEG BAR</p>  <p style="font-weight: bold; font-size: large;">ANIMATION</p>	<p style="font-weight: bold; font-size: large;">ACCESSORIES</p>  <p style="font-size: small;">DUNNING ANAMATIC SOUND STRIPPER</p>	<p style="font-size: small;">MAGNASYNC RECORDER, MODEL 602-E-5</p>  <p style="font-weight: bold; font-size: large;">SOUND</p>	<p>SOS is your department store of motion picture equipment new or used, domestic or export.</p> <p>We Carry Most Leading Brands Of AV, Film, Theatre, Television, Animation, Projection & Laboratory Supplies.</p> <p>Send us a list of your needs for our immediate quotation. Free literature on request.</p>



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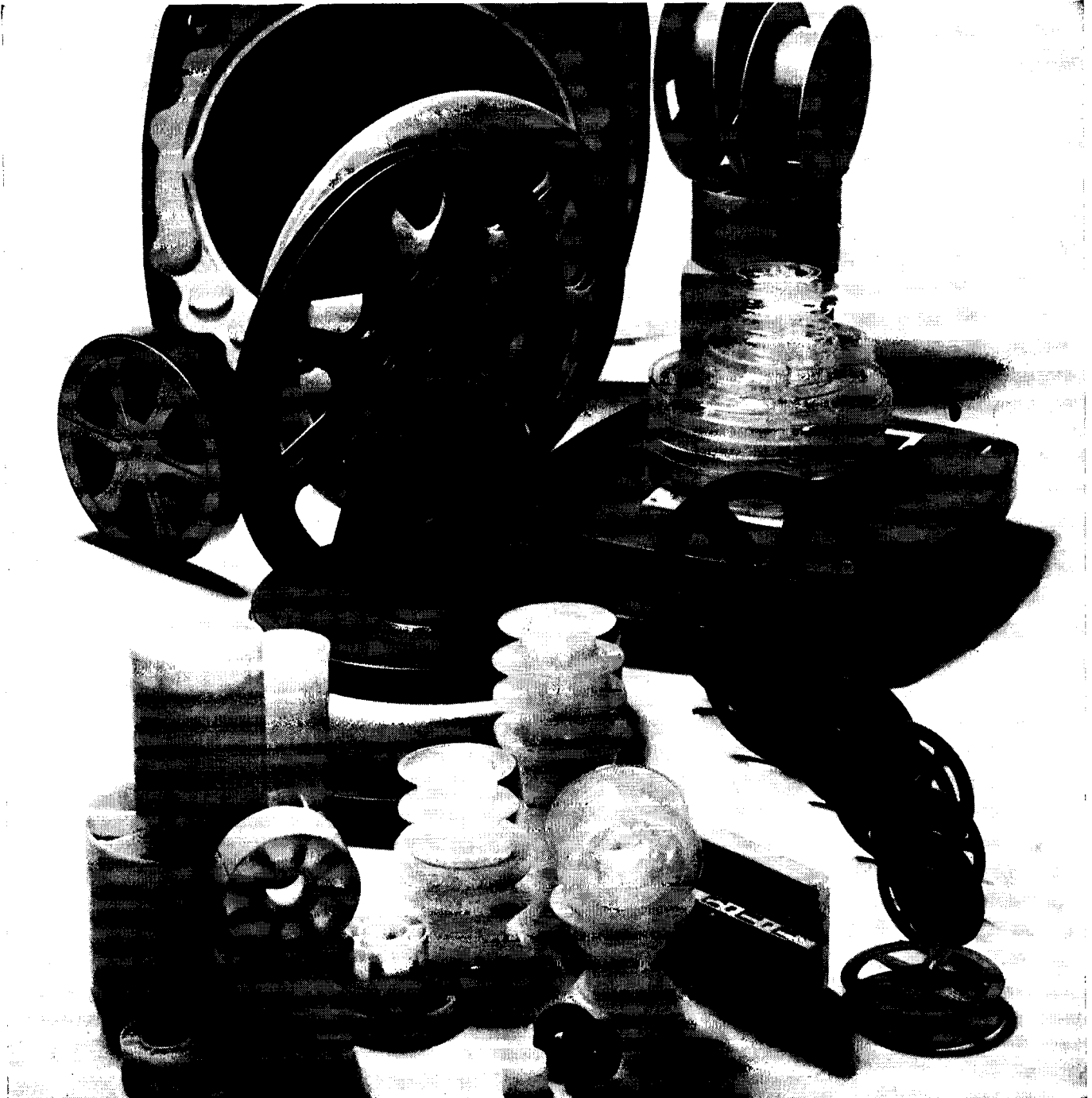
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rented to film producers under the management of Vice-President Norman Zuckerman. The studios were built in 1965 and have facilities and equipment to accommodate any type and size of production. Two stages, each 125 ft long, 80 ft wide and 50 ft high, are available for rental. The stages are soundproofed and air-conditioned, each by its own generator plant. One stage contains a built-in water pit for swimming pool and underwater scenes; the other stage has a 30- by 30-ft recessed area to permit convenient ground level filming of overhead sets. Each stage has over 3,000 A of electrical power.

A barium sodium niobate crystal has been used to produce 1.1 W of continuous

green light by converting infrared laser light at 100% efficiency as a result of experiments conducted at Bell Telephone Laboratories. The barium sodium niobate crystal acts as a harmonic generator—converting all the available infrared laser light produced in the cavity of a neodymium-doped, yttrium aluminum garnet laser to coherent green light. The maximum available infrared output of the laser used in the experiments was 1.1 W. Both crystals were developed at Bell Telephone Labs.

Pocket-size TV sets may become available in the future as the result of the discovery of an electrooptical effect in liquid

crystals discovered at RCA Laboratories, Princeton, NJ. The discovery has been used to develop flat, low-power, low-cost displays, among them, an all-electronic clock with no moving parts and a high-resolution picture display, described as the electronic equivalent of a printed page. The new liquid crystal screen results from the application of two discoveries: (1) certain liquid crystals can be made opalescent and hence reflecting by the application of an electric voltage and (2) the temperature range over which this occurs, originally confined to only a few degrees at high temperature, can be expanded with new materials to cover a range from below freezing to the boiling point of water. Liquid crystals are classed according to the type of array into which they form. The type used by RCA is of the class known as "nematic" in which the molecules form into parallel lengths like a bundle of sticks.

In the new display technique, a sandwich is formed of two clear glass plates separated by a thin layer of clear liquid crystal material only one-thousandth of an inch thick. A reflective mirror-like conductive coating is deposited on the inside face of one plate in contact with the liquid. On the inside of the other is deposited a transparent, electrically conductive coating of tin oxide. When an electric charge is applied between the two coatings, the liquid crystal molecules are disrupted and the sandwich takes on the appearance of frosted glass. The frostiness disappears as soon as the charge is removed. In order to display stationary patterns, the conductive coatings are laid down in the form of a fine mosaic whose individual elements can be charged independently.

International Video Corp. (IVC) and **Electric and Musical Industries Ltd. (EMI)** have announced an agreement whereby IVC will market EMI color television cameras and broadcast equipment in the United States. The two companies will introduce a three-tube Plumbicon color TV camera for broadcast use, developed by EMI for the North American market. A four-tube Plumbicon now used extensively in Europe and the United Kingdom will be marketed in the United States by IVC. Headquarters of EMI are in London, England. IVC is located in Sunnyvale, CA.

Broncolor professional studio electronic flash equipment will be marketed and distributed by Rank Studio Equipment, according to terms of a three-year agreement with Bron Electronic Ltd. of Switzerland. The equipment was formerly handled by Top Line Imports Ltd. The flash equipment is used by many of Europe's leading advertising, fashion and commercial photographers.

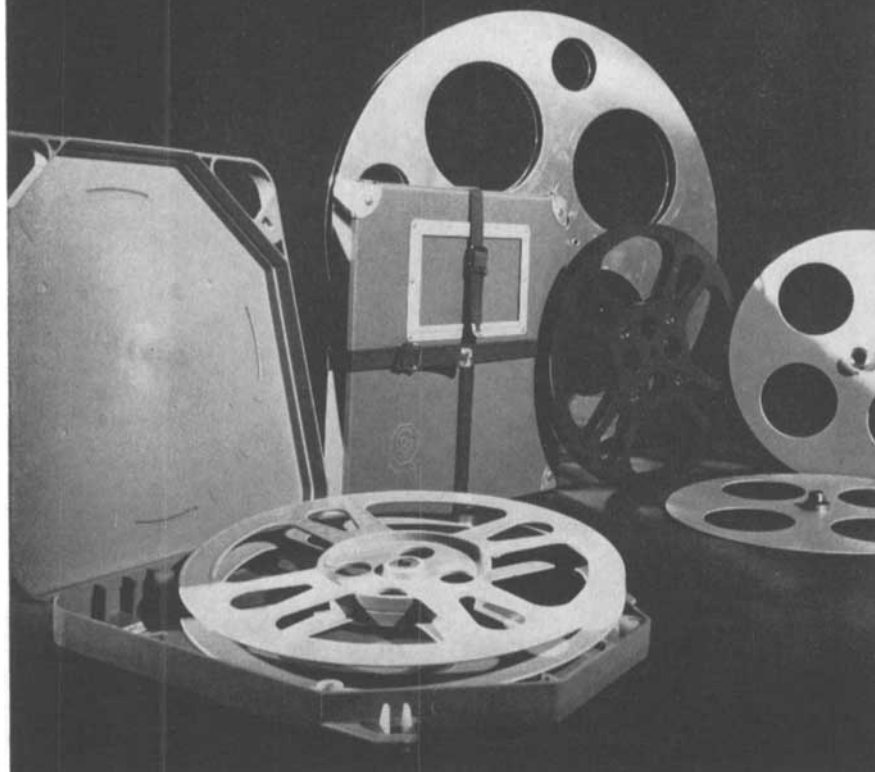
An agreement between **Reeves Broadcasting Corp.** and **Actron Corp.** for the acquisition of Actron by Reeves has been announced jointly by Hazard E. Reeves, Chairman and Chief Executive Officer of Reeves and H. Scott Killgore, President of Actron. Actron operates production and

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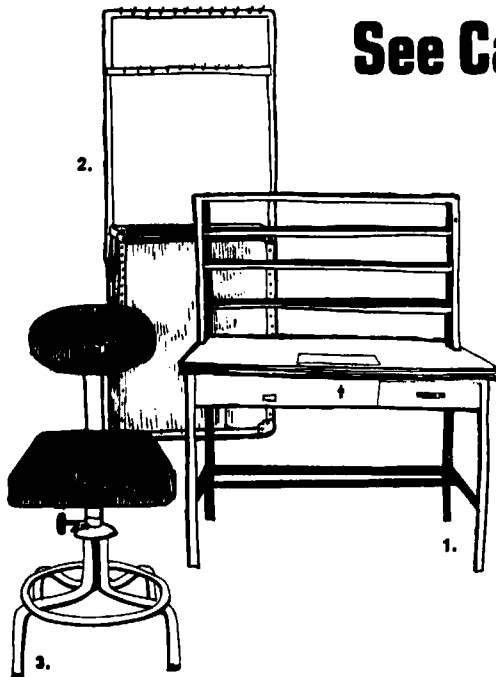


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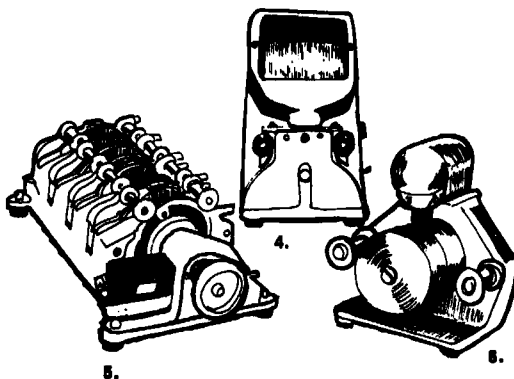
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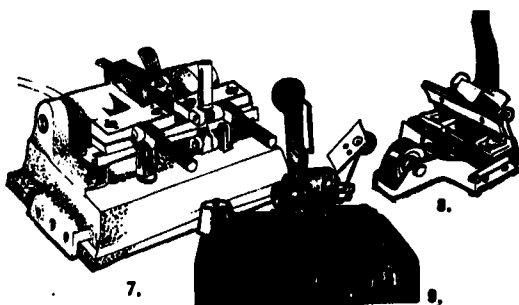
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Videotape Productions of New York, Inc. (Videotape Center), producers of commercials, programs and industrials, has been acquired by Reeves Broadcasting Corp., Video Div., 304 E. 44 St., New York, N.Y. 10017. The Center will become a service organization to other production houses to provide facilities and manpower.

Bardwell & McAlister, Inc., a division of F&B/Ceco Industries, has opened a new showroom at 6757 Santa Monica Blvd., Hollywood. The new showroom will display the full line of the firm's light fixtures. Demonstration and testing areas will be provided for checking light output, control and balance as well as operating procedures.

Magnetic Tape Engineering Corp. (Magtec) is a new firm formed to provide magnetic tape duplicating services. Housed in a 30,000 ft² facility at 8120 Webb Ave., North Hollywood, Calif. 91605, the new firm will specialize in the production of all standard formats of reel-to-reel cartridges and cassettes for the entertainment and educational fields. Officers and co-founders of the new firm are: President, Alan Clark; Executive Vice-President and General Manager, Ken Goates; Vice-President, Audio Engineering, Jack Strayer; Vice-President, Systems Engineering, Roy G. Hipple; and Vice-President, Marketing James S. Walker.

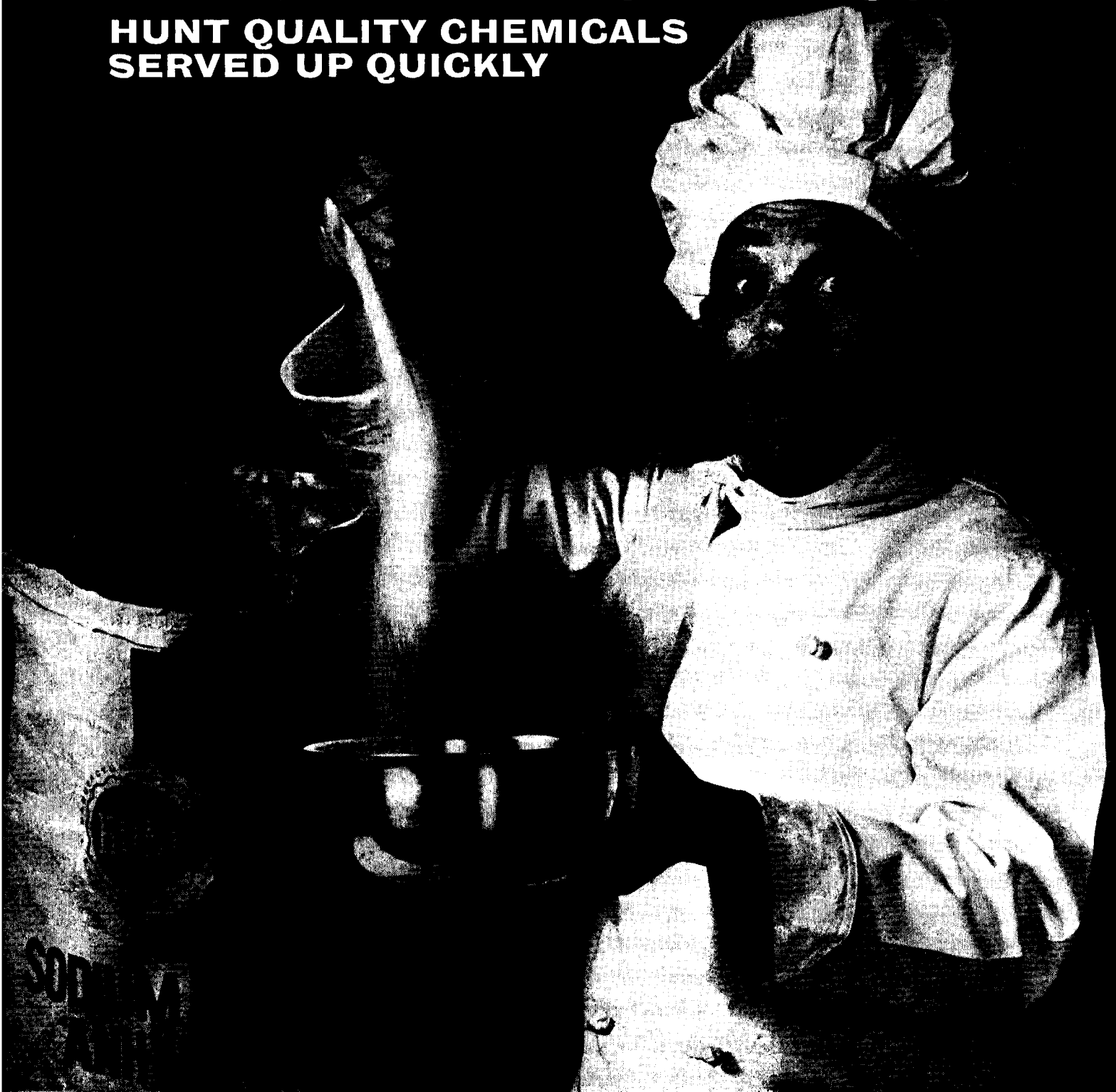
Magnasync/Moviola Corp. of North Hollywood, Calif., has signed agreements to acquire Dynatech Corp., Santa Ana, Calif., it was announced by Henry Gluck, President of Magnasync/Moviola. Dynatech manufactures plastic and metal components primarily for electronic and governmental applications. Martin Usab, President, and Donald Moritz, Vice-President and General Manager will continue to direct the company's operations.

Birns & Sawyer, Inc., has announced the purchase of a 14,000 ft² concrete building at 1026 N. Highland, Hollywood. The firm's headquarters are at 6424 Santa Monica Blvd., Los Angeles. The building will house equipment for sale and rental. According to the announcement the building has an easy loading dock access for rental customers as well as well designed sales area.

Shure Electronics of Arizona, Inc., a wholly-owned subsidiary of Shure Brothers, Inc., 222 Hartrey Ave., Evanston, Ill., has announced that a new, 63,400 ft² plant is under construction in Phoenix, Ariz. The new plant will house a product assembly operation and a warehousing fa-

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cility. Occupancy is expected early this year. The building site allows for expansion of the plant to 170,000 ft².

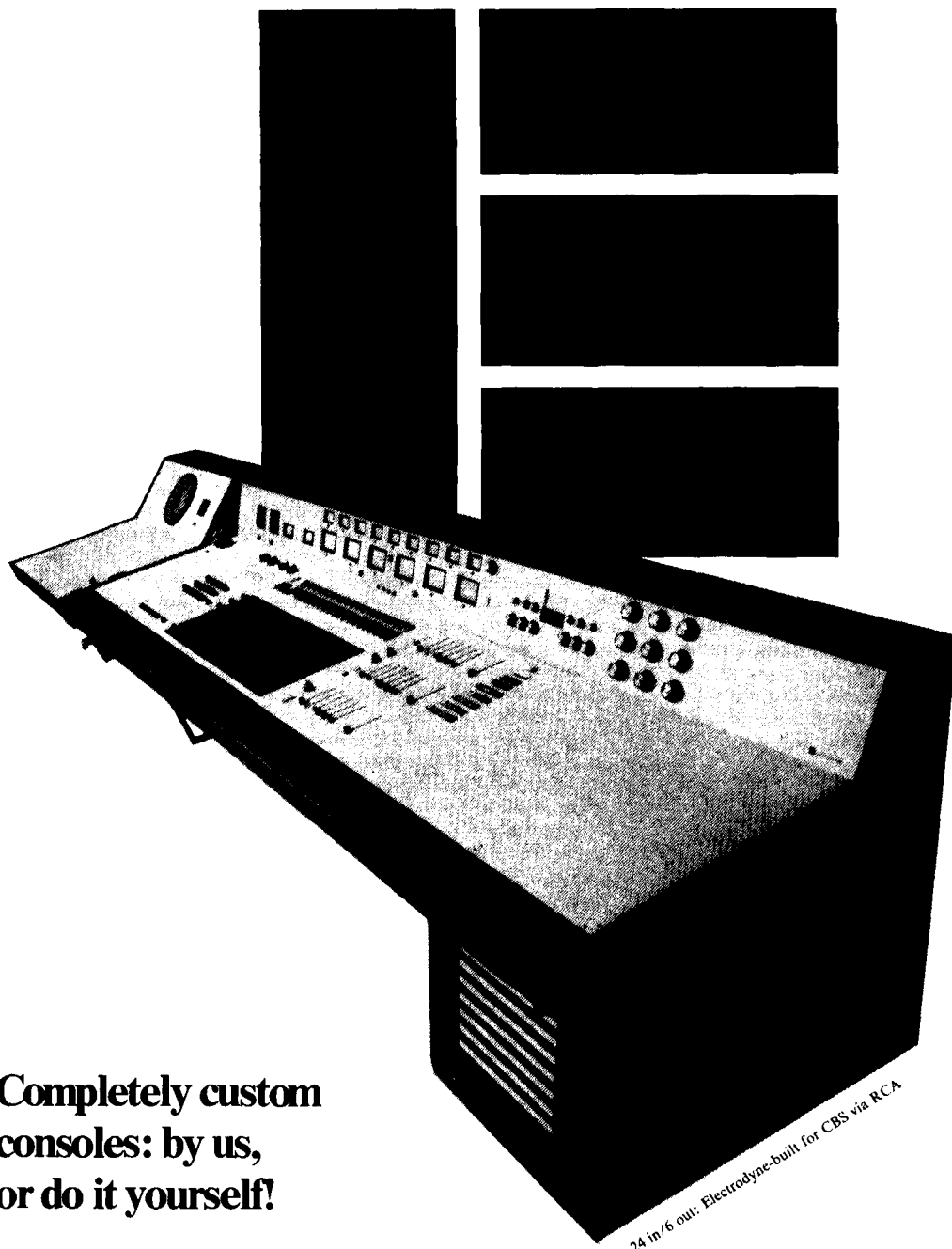
Cinema Beaulieu, Inc., has moved its headquarters to a new building at 14225 Ventura Blvd., Sherman Oaks, Calif. The new building covers 10,000 ft² and has been designed to provide improved customer service. The firm is the exclusive United States distributor of Beaulieu 16mm and super-8 cameras and Heurtier 8mm and 16mm projectors.

GEC-Marconi Electronics Ltd. is a new management company formed in Great Britain to cover the fields of aerospace and defense equipment, communications and navigational systems for land, sea, air and space, and broadcasting and television systems. Firms under the management of GEC-Marconi Electronics are Marconi Company Ltd. and all its subsidiaries, including those overseas as well as those in England, GEC-AEI and its subsidiaries and Elliott-Automation and its subsidiaries. Robert Telford is Managing Director of the new firm and will continue as Managing Director of Marconi Company.

Pathé-Humphries of Canada Ltd., 9 Brockhouse Rd., Toronto 14, Ont., Canada, has acquired Associated Screen Industries, a firm previously controlled by Du-Art Inc. of New York. Murray Briskin has been appointed Vice-President and General Manager of the newly acquired company. Pathé-Humphries is a wholly-owned subsidiary of Bellevue Photo Inc., an all-Canadian company owned and controlled by the Bronfman and Greenberg families of Montreal.

Eastman Kodak's marketing facilities in the New York City area will be brought together in one location in a move to eight floors of a 45-story building at 1133 Avenue of the Americas. Plans provide for the occupancy of six more floors over a 20-year period. The areas to be occupied about mid-1969 cover about 156,000 ft². The ground floor will be occupied by the company's corporate display division. This will include advertising display plus some exhibits now located in Grand Central Terminal. The Kodak Colorama exhibit will be continued in Grand Central.

A new airborne motion-picture system developed by Bell & Howell Co. will be installed in the Pan American World Airways fleet of 25 Boeing 747 superjets and in 101 of the Boeing 707 fleet. The equipment will be leased from Bell & Howell which will also supply the films for the Theatre in the Air programs. The 707s will be equipped with three screens, each 50 by 25 in., two in the economy section and one in the first-class compartment. The 747s will be equipped with six screens ranging in size from 18 by 36 in. to 26 by 72 in. The 16mm projection system features remote lens focus control, standby projection lamps and automatic film rewind.



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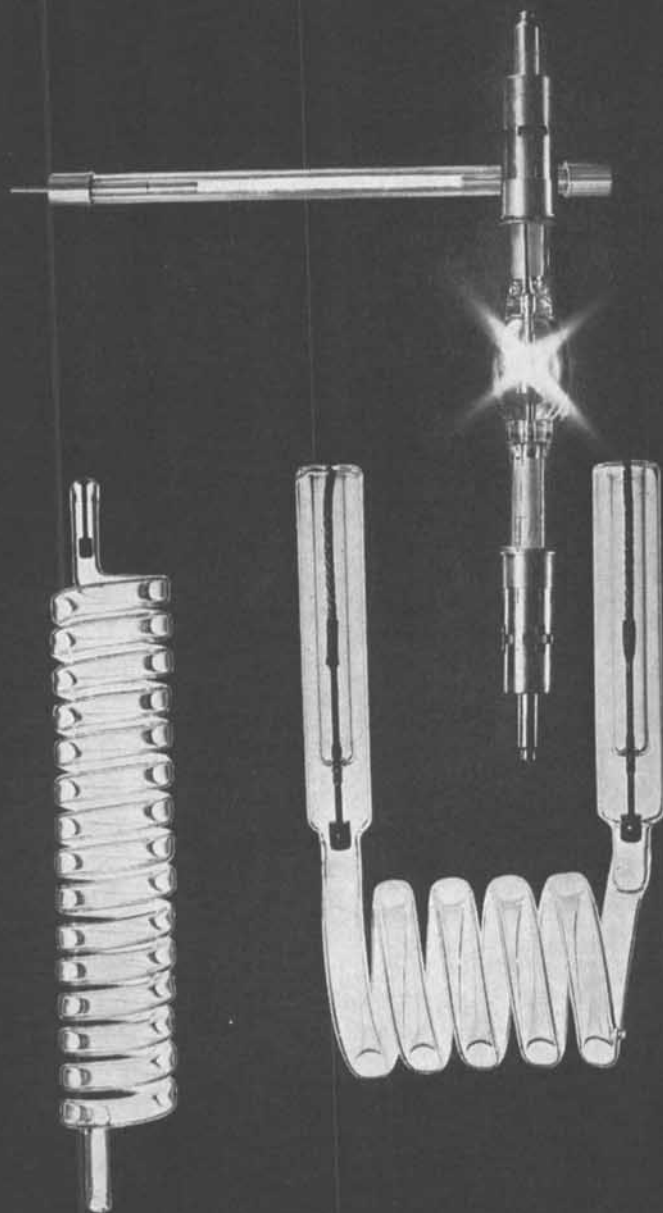
offer illuminated, color-coded and identified control over inputs. **LA-602 I-C Program Amplifiers** deliver +30 dbm output with frequency response of ±1 db from 30-20,000 Hz. **PS-603 I-C Power Supplies** put out 6 amps fully regulated via I-C circuitry, with fail-safe short-circuit protection. **CA-702 I-C Limiter/Compressor** limits peaks with or without level compression, has four slopes and continuously variable release time.

There's more, too, but no more room to tell about it. Better call or write for further word.

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The name of Eastman Direct Print Film 5360/7360 (*Journal*, p. 73, Jan. 1969) has been changed to Eastman Direct MP Film 5360/7360. No change is made in the product. The name has been changed to prevent conflict with products sold with similar names through other markets divisions.

Professional Lighting Control, a 60-page illustrated catalog available from Skirpan Electronics, Inc., 41-43 24th St., Long Island City, N.Y. 11101, contains a 16-page discussion of the theory of electronic lighting control and the operation of solid-state dimmers. Various types of dimmers are compared and various approaches to the location of dimmers and load programming are described. A number of systems manufactured by Skirpan, including solid-state programming and cycle control amplifiers are illustrated and described.

A new holographic material—a single crystal of lithium niobate—has been found to have the capability of storing as many as 1,000 different holograms, as a result of experiments conducted at Bell Telephone Laboratories. A single cubicle crystal (smaller than a lump of sugar) is placed on a rotatable platform. Functioning as an ordinary holographic plate, the crystal records the complex interference patterns of light waves as one laser beam is split into two parts, one of which shines directly on the crystal (reference beam). The other part shines through a transparency of the object or page being stored (object beam) and strikes the crystal. After a hologram is formed through one-centimeter thickness of the crystal in one direction, the crystal is rotated a fraction of a degree for each new hologram to be stored. A lithium niobate crystal can store holograms because a suitably intense laser beam can free enough electrons in the crystal to set up an internal electric field. This field causes a change in the refractive index of the crystal. Because this refractive index change varies with the intensity of the laser light hitting the crystal, the crystal can record intensity variations of a reference beam interfering with an object beam in much the same way that an ordinary holographic plate does. However, the holographic plate records this interference pattern as permanent changes in its transmission properties; with lithium niobate, the interference pattern is recorded as semipermanent changes—capable of being erased by heat—in the index of refraction through the thickness of the crystal. Holograms stored in a lithium niobate crystal can be erased by heating the crystal to 170°C, making it possible to use the same crystal for storing new holograms.

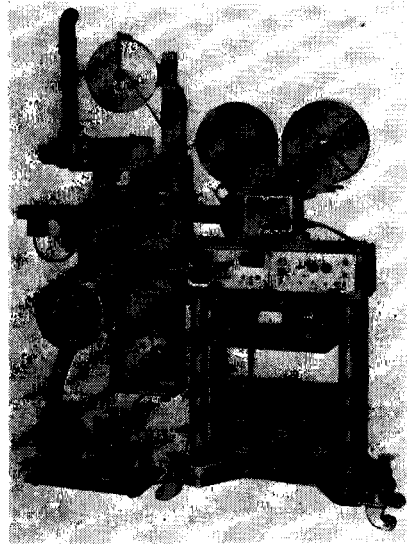
John S. Auld has been elected President of Philips Broadcast Equipment Corp., a subsidiary of North American Philips Co. He succeeds Matthew M. Dorenbosch who becomes Chairman of the Board. Prior to his election, Mr. Auld had been Vice-President and General Manager of Philips Broadcast. Before joining the com-

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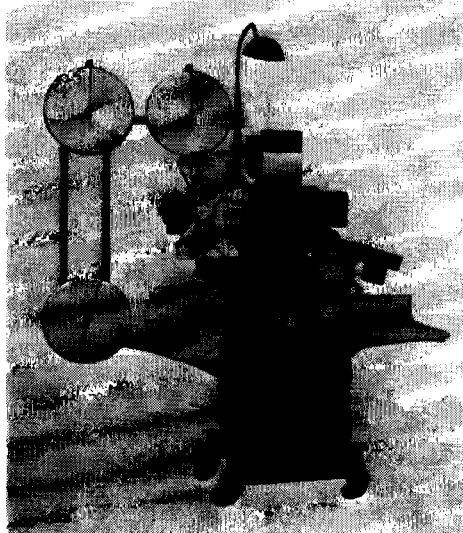
High Speed Reduction Printer Model: DHP-1

Picture reduction printer for B&W and color films from 35mm to 16mm at variable speed of 24 or 32 frames/sec. Also available for 16mm to Super 8 at 32 or 40 frames/sec. ➔

- Film movement of camera/projector are eccentric/registration pin system. Particularly projector movement is variable stroke type.
- "Super-impose" printing of 35mm to 16mm possible only by switching the knob.
- The model for 16mm-Super 8 films can be made suitable for several processes by changing the position of the sprocket and movement assembly on the 16mm side and the aperture on the 8mm side. 1-3 format, as well as 1-4 format, system is available.
- Full automatic subtractive color correction/density compensation is made by negative film notching with band pocket film of CC and ND filters.
- Immersion liquid printing device also attachable at buyer's option.



PB-3B Single Head Continuous Printer



Continuous printer for 35mm/16mm/Super 8 of B&W and color films at printing speed of 60 or 90 ft. per min., with super-high intensity condenser lens system. Printing density of B&W film is adjustable by semi-automatic light control system. Subtractive color correction system is adopted for color film with full automatic band pocket film carrier. Automatic Dissolve Device attachable at buyer's option. Both single and double head types available. Further details obtainable upon request.

PRODUCTS: Cameras, Animation Equipment, Printing Machines, Recorders, Processing Machines, Editing Equipment, etc.

SRC-16-1 16mm Re-Flex Camera



Model SRC-16-1 has been developed for professional use and is recommended for producing film drama, news film and for shooting sporting events.

- semi-self-blimp
- Manual dissolve shutter
- Miniature shutter indicator, 0° to 160° variable, 144° for TV.
- Single system magnetic sound recording apparatus is attachable at buyer's option.



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pany in 1966 he had been associated with Fairchild Camera and Instrument Corp.

The present organization of Philips Broadcast consists of three divisions: Audio-Video Systems (television and motion-picture systems); Communications Systems (telephone equipment and computer switching systems) and Government Systems, which includes the recently acquired Infrared Laboratory of Avion Electronics, Inc. Philips Broadcast now has three facilities, an 80,000 ft² headquarters structure in Montvale, NJ, a 41,000 ft² facility in Paramus and a third facility, also in Paramus, houses the Government Systems Division.

Col. Peter Boyko has been appointed Operations Manager of Capital Film Laboratories, Inc., 470 "E" St., S.W., Washington, DC 20024. He will be in charge of laboratory operations, sound and editorial departments in Washington, DC, and will also direct the Miami, FL, laboratory and the recently opened Super 8 City in Alexandria, VA. Super 8 City is equipped to load all presently available super 8 cartridges, including Technicolor, Fairchild, Jayark, MPO and Bohn-Benton as well as Eastman.

James W. Hulfish, Jr., has been appointed Director of Marketing for Spindler & Sauppe, Glendale, CA. Prior to this appointment, Mr. Hulfish, who was most recently Director of Information for National Audio-Visual Assn. (NAVA), was Marketing Head of Elco Optisonics Corp. In his new position he will be responsible for developing promotional materials for the firm's Selectoslide projectors and accessories as well as coordinating its national advertising.

Dennis Gabor is the recipient of the Rumford Medal awarded bi-annually by the British Royal Society for scientific discoveries in light or heat. The medal was presented to Dr. Gabor, who is staff scientist for CBS Laboratories, High Ridge Road, Stamford, Conn. 06905, for his outstanding contributions in the field of optics and his discovery of holography. Dr. Gabor is known throughout the world as "the father of holography." He provided the mathematical basis for its beginning 20 years ago with his discovery of how to reconstruct objects from their light wave interference patterns. The interference principle was used by Dr. Gabor to construct the first hologram in 1948—a three-dimensional image of an object on a glass plate. Derived from the Greek "holos" (whole; entire) + "graph" (write; draw) holography is a form of lensless photography. Dr. Gabor, who is Professor Emeritus of the Imperial College of London, has also been responsible for many mathematical contributions to the advancement of communications and color television.

The Rumford Medal is one of the oldest scientific honors in the world. It was founded in 1796 by Count Rumford (Benjamin Thompson), the American-born statesman and scientist who proved, among many other things, that heat is motion rather than a substance.

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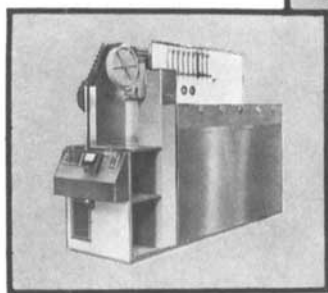
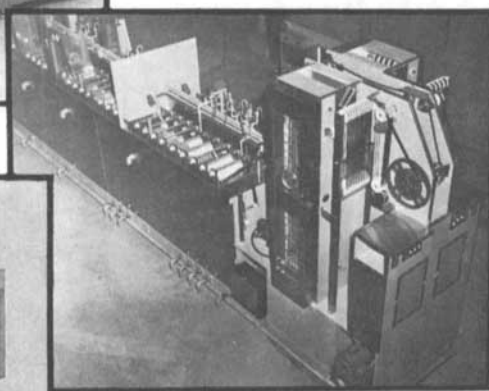
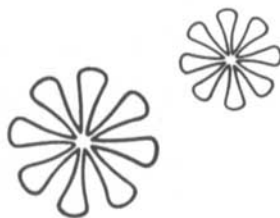
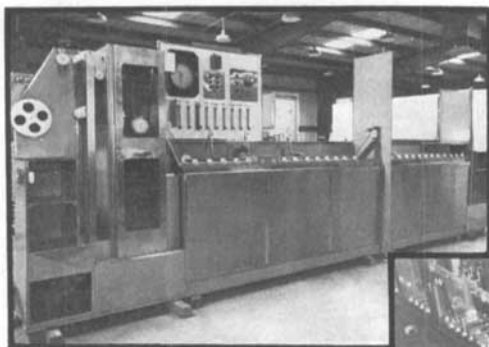
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E. B. McGreal has been elected President of Producers Service Corp., 1200 Grand Central Ave., Glendale, Calif. 91201. The firm is a wholly owned subsidiary of Boothe Computer Corp. of San Francisco. Mr. McGreal will continue as General Manager in addition to his expanded duties as President.

The firm has recently expanded its line of optical printing equipment including an additive color contact printer equipped with a new lenticulated optical system.

Gerald Goldman has been appointed Director of the Video-Tape Recording and TV Systems Dept. of Sonocraft Corp. He was previously Manager of Product Development and Applications, Educational and Commercial Systems Dept., General Telephone and Electronics International. He was also affiliated with Sylvania Electric Products Inc. as Manager of Applications Engineering in the Commercial Electronics Div. In his new post he will be responsible for all installation and servicing of video-tape recording and TV systems sold through Sonocraft.

Howard W. Town has been appointed Manager of Product Planning, Video Product Div., Ampex Corp., 401 Broadway, Redwood City, CA 94063. He was formerly Director of Engineering for NET Television, Inc.

James A. Sparkes has been named to head the Optical Division of Birns & Sawyer, Inc., 6424 Santa Monica Blvd., Los Angeles, CA 90038. He was previously Superintendent of Varo Optical Co. and Korad Corp. In his new post he will supervise manufacture of the B & S Omnitax telephoto lenses from blanks through curving, rough and fine grinding, polishing, edging, coating, threading and machining.

Frank J. Gaskins has been appointed Video-Products Manager for Ampex International, a division of Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. He has been with the firm since 1966 as Manager, Product Planning, Video Products Div. In his new post he will be responsible for the marketing of Ampex video-tape recorders, cameras and accessories in countries outside the United States.

Robert W. Byloff has been named a Vice-President of Reeves Broadcasting Corp., 304 E. 44 St., New York, N.Y. 10017. He joined the firm in 1959 to establish video services and is presently President of the Video Division. Before joining Reeves, Mr. Byloff helped develop color television as a member of a joint NBC-RCA team.

Richard T. Monroe, Jr., has been appointed Vice-President of Engineering for Group W, Westinghouse Broadcasting

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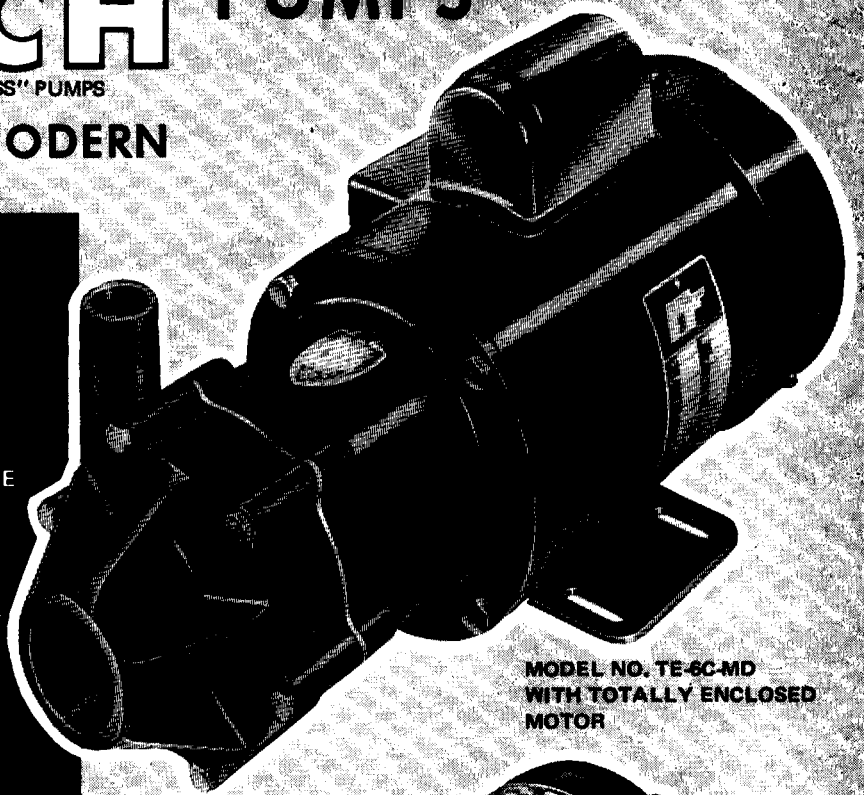
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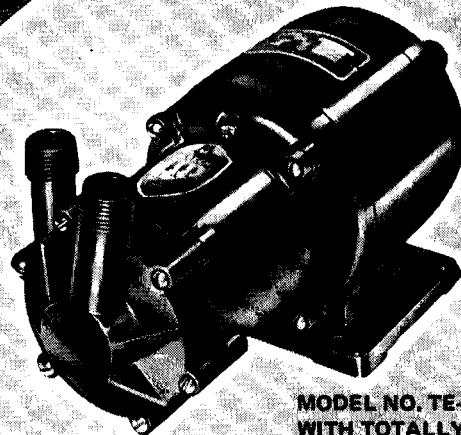
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											1 FT.	3 FT.	6 FT.	9 FT.	15 FT.	
TE-MDX-MT3	3450	1/20	126	1.1	115/230	5 1/4"	4 3/8"	9 1/2"	7.3 lbs.	16.8 Ft.	500	445	380	285	65	11 1/2 lbs.
MDX-MT3*	3000	1/20	105	1.4	115	5 1/4"	3 3/4"	8"	7.0 lbs.	16 Ft.	450	395	325	240	45	5 lbs.

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