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## Education, Industry News

**Awards for excellence in medical and scientific photography** presented at the 29th Annual Meeting of the Biological Photographic Association held in Montreal, Aug. 31 to Sept. 3, included eight awards for motion pictures and 44 awards for still photography. Selections were made from hundreds of entries. One motion picture, *Dynamics of Phagocytosis*, received two awards, one in the Medical Education division and the other in the Professional Teaching division. The film was made with a Cine-Kodak Special II fitted with a Bausch & Lomb beam splitter. A Kodaslide 35mm projector, air-cooled and with heat filter, using a 1000-w tungsten filament lamp was used as the light source. Other films which received awards are: *Transplantation of the Embryonic Heart in the Mouse*, in the Institutional Research division; *Roundpupil Intracapsular Cataract Extraction*, *The Swarming of Proteus Vulgaris*, and *Craniotomy and Removal of Left Frontal Meningioma*, awarded First, Second and Honorable mention in the Institutional Teaching division, and *Fire and Explosion Hazard With Flammable Anesthetics and Just Four Minutes*, awarded Second and Honorable Mention in the Professional Teaching division.

The Biological Photographic Association is dedicated to the skills of medical and scientific photography. It publishes the *Journal of the Biological Photographic Association*, a quarterly publication of articles on scientific motion-picture and still photography and photomicrography in color and monochrome.

**To build up communications facilities**, including film and television, in underdeveloped countries Unesco has instituted a series of meetings to be held in Bangkok, Thailand, Jan. 18-30, 1960. Those attending the meeting will include representatives of 25 member states of Unesco, media experts from South-East Asia and representatives of international professional associations of press, radio, film and television. Purpose of the initial meeting is to draw up a program for South-East Asia. Later meetings are planned for Latin America (1961) and Africa (1962). The survey is being conducted for the United Nations Economic and Social Council. It is intended to enable the Council to evaluate the material, financial and professional requirements and resources needed to carry out a world-wide development program which will include training fellowships, seminars and the provision of equipment and other facilities.

Film problems that will be discussed at the Bangkok meeting will include difficulties in distribution, training of technicians and production of newsreels and other films in the smaller South-East Asian countries. In the field of television, the meeting will consider how this medium might be developed as an aid for information and education. Technical training will be given special attention.

# Westrex makes portable recording systems

perfect sound recording for 16mm industrial film






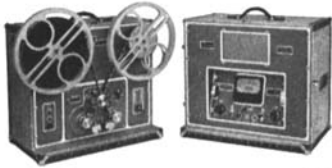

The Westrex Series 1200 Portable Magnetic Systems are truly portable. The mixer weighs 22 pounds and the recorder 39 pounds. Three different models allow recording with 16mm or 17½mm magnetic film, or ¼" perforated magnetic tape. These systems are built with the identical award-winning quality features built into the Westrex professional studio systems. Included are all system cables, spare glassware, and two headsets. Microphones, microphone cables, tripod and other accessories are available. For a checklist of the built-in advantages of these very flexible systems, plus complete specifications, ask for Data Sheet Series 1200, Recording Division, Westrex Corporation, 111 Eighth Avenue, New York 11, New York, or 6601 Romaine Street, Hollywood 38, California.



**Westrex Corporation**  
A DIVISION OF LITTON INDUSTRIES

# \*How to select a recorder to start your MAGNASYNC-MAGNAPHONIC SOUND SYSTEM

## Sound Equipment Checklist

		LIGHTWEIGHT	MEDIUM WEIGHT	16 MM FILM	17½ MM FILM	35 MM FILM	REWIND	FOOTAGE COUNTER	POWER AMPLIFIER	MONITOR SPEAKER	TORQUE MOTORS	PLUG-IN AUDIO	PUSH BUTTON CONTROL	REMOTE CONTROL	SLIDE-WIRE POTS	FILM MONITOR	SYNCHNETIC MOTION	PLUG-IN HEADS	
	<b>X-400</b> When lightweight portability is a <b>must</b> the 27 lb. X-400 Type 1 is the answer! Another reason so many producers choose this machine is that it is genuinely professional, and yet, surprisingly economical! From \$985.	X		X			X		OPTIONAL	OPTIONAL						X		X	OPTIONAL
	<b>TYPE 1</b> The Type 1 is a miniaturized version of the Type 5. Low power consumption and extreme portability has made this 39 lb. unit a popular selection for remote location production by leading professional motion picture studios. From \$1360.	X		X	X		X	X	X			X					X	X	OPTIONAL
	<b>TYPE 15</b> The X-400 Type 15 is designed for the man who wants everything in one case . . . playback amplifier, monitor speaker, footage counter and torque motors. You can be proud to have this machine represent you on any sound stage! From \$1385.		X	X			X	X	X	X	X						X	X	OPTIONAL
	<b>TYPE 5</b> The most popular magnetic film recorder in the world is the Type 5! With this unit and all its operational conveniences, you are definitely in the "major league." The Type 5 owner always starts his pictures with a special feeling of confidence in the realization that he has allowed no compromise in the selection of equipment. From \$1570.		X	X	X	X	X	X	X	X	X	X					X	X	OPTIONAL
	<b>MARK 1X</b> There is nothing on the market that compares with the remarkable Mark 1X. This unit is in a class by itself . . . with push-button remote controlled relay functions, plug-in audio elements and all the "extras" that make for flawless recording under the most adverse conditions. From \$2145.	X		X	X	X	X	X	X			OPTIONAL	X	X	X	X	OPTIONAL	X	X

\*Regardless of the model you select, you can always depend upon equipment with the "Magnasync-Magnaphonic" label . . . equipment made by the international leaders in the design and manufacture of quality magnetic film recording systems.



Write, wire or phone

**MAGNASYNC MANUFACTURING CO., LTD.**

5546 Satsuma Ave., North Hollywood, California • TRIangle 7-5493 • Cable "MAGNASYNC"

**DEALERS:**

**CHICAGO**, Zenith Cinema Service, Inc.; **LOS ANGELES**, Birns & Sawyer Cine Equipment; **NEW YORK**, Camera Equipment Co.; **SAN FRANCISCO**, Brooks Camera Co.; **AUSTRALIA**, Sydney, New South Wales, Sixteen Millimetre Australia Pty. Ltd.; **BELGIUM**, Brussels, S.O.B.A.C., S.A. (Societe Belge D'Applications Cinematographiques); **BOLIVIA**, La Paz, Casa Kavlin; **BRAZIL**, Rio de Janeiro, Mesbla, S.A.; **BURMA**, Rangoon, G. K. Theatre Supply Co., Ltd.; **CANADA**, Toronto, Ontario, Alex L. Clark, Ltd.; **CUBA**, Havana, Caribbean Electronics, S.A.; **DENMARK**, Copenhagen, Kinovox Electric Corp.; **ENGLAND**, London, W-1, Delane Lea Processes, Ltd.; **HONGKONG**, Supreme Trading Co.; **INDIA**, Bombay, Kine Engineers; **ITALY**, Rome, Reportfilm S.R.L.; **JAPAN**, Tokyo, J. Osawa & Co., Ltd.; **PAKISTAN**, Karachi 3, Film Factors Ltd.; **SWITZERLAND**, Zurich 7/53, Rene Boeniger; **THAILAND**, Bangkok, G. Simon Radio Co., Ltd.

The main block of the BBC Circular Television Center ("Europe's Biggest") will be completed early in 1960, according to the present schedule. (Some statistics: It will contain eight million bricks; 55,000 tons of concrete; 4300 tons of steel and 2500 doors, with a crew of 800 men laboring to put this vast amount of material in place).

Standing on a site of 13 acres at Shepherd Bush, London, the huge circular main block will contain seven studios and several hundred offices; a scenery block; a restaurant block; a maintenance block and eventually a "spur" or "tail" running from the main block.

The scenery block, which covers one acre, is now in use. It has workshops for the making of scenery and properties for

TV stage sets, a scenery-painting studio, a 26-ft-high "setting space" where scenery is assembled and distributed to studios and storage space for scenery and properties. The block includes about 200 offices. The restaurant (scheduled for completion in 1960) will accommodate 750 persons at one sitting. It is connected to the main block by a two-story bridge and a tunnel.

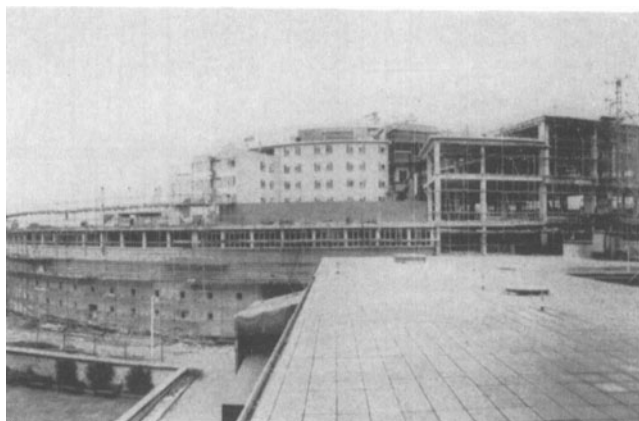
The main block is a circular building covering 3½ acres. A seven-story inner ring is built around a circular garden 150 ft in diameter. Outside this ring and radiating from it are seven ground-floor studios. A multi-story control block in the shape of a wedge is located between two of the studios. Around the outer periphery of the studios will be a runway for transporting scenery and properties from the scenery block. The inner ring, planned mainly for offices, will also contain wardrobe facilities, make-up and music departments, and a BBC club with a roof garden. The main

floor and basement will contain about 120 dressing rooms with accommodation for about 550 persons.

The seven production studios will each have its own air-conditioning plant. The first studio (for dramatic productions) is scheduled to be in operation by mid-1960 and three more (for music, light entertainment, school and children's programs) are scheduled to begin operation late in 1961. Thirty TV cameras and associated electronic equipment have been ordered. Public audiences will be admitted to the studios for certain programs. Tiered, demountable seating will be provided in each studio according to need.

The largest studio of the remaining three to be built later will be 108 ft long, 100 ft wide and 54 ft high. It will have a 7½-ft pit into which part of the floor can be lowered. The pit can be filled with water for possible use in aquatic programs.

Donald McMaster, Chairman of the Executive Committee of Eastman Kodak Co., has been named Honorary Fellow of the Photographic Society of America—the highest honor bestowed by PSA. The presentation ceremony took place October 10 at the PSA National Convention in Louisville, Ky. Mr. McMaster was cited for "his general service to photography, his untiring devotion to the promotion of amateur photography throughout the world, his exemplification of high ideals in the business world, and for his attainment as an exhibition photographer." A charter



A recent view looking west of the central multi-story control block.

## FILMLINE ANNOUNCES ***WORLD'S FASTEST COMMERCIAL PROCESSOR*** FOR REVERSAL & NEGATIVE/POSITIVE 16MM FILM

Develops Reversal film at 125 fpm    Develops Negative film at 55 fpm

- New impingement-type film Dryer
- Temperature control
- Rinse tank with spraybar after each chemical tank
- Eight film squeegees
- New low-pressure type air squeegee
- Overflows and bottom drains
- Tachometer
- Solution and drybox thermometers
- Oil-less, rotary air compressor with pressure gauge
- Recirculation pumps and spraybars
- Stainless steel, type 316, tanks
- Daylight operation
- 1,200 Film Magazine
- Variable Speeds/Development Times

Wherever quality results are demanded in the fastest processing time . . . or wherever illumination is inadequate for quality image density . . . this newest, fastest combination 16MM Reversal and Negative/Positive film processor . . . the Filmline Model RT-S will consistently provide the solutions to these processing problems.

For in-plant, high-speed photography . . . for television stations, racetracks, and motion-

picture film labs . . . the Filmline Model RT-S is the ideal machine . . . providing quality results at speeds to 125 ft./minute . . . and permitting increases of the ASA index 1000% on DuPont or Eastman Reversal Emulsions.

Fully equipped, ready for immediate operation the Model RT-S offers you high cost film processing features for the low price of only \$6,450.00.

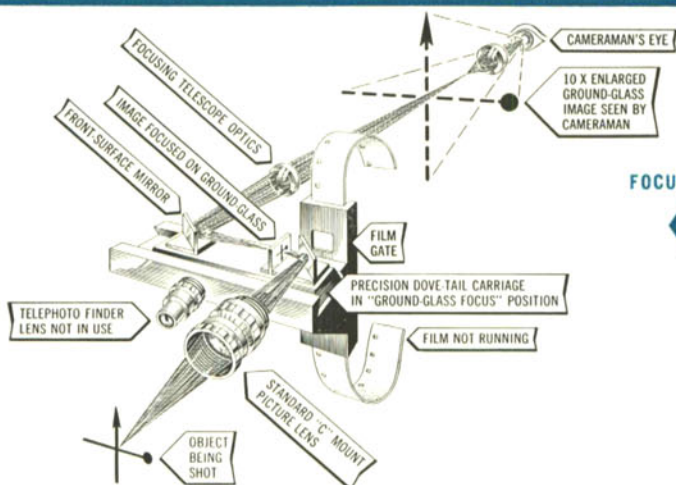
Filmline

FILMLINE CORPORATION, DEPT. SO-59, MILFORD, CONN.

# Auricon

## "SUPER 1200" CAMERA with Full-Frame Reflex Ground-Glass FOCUSING OPTICAL SYSTEM

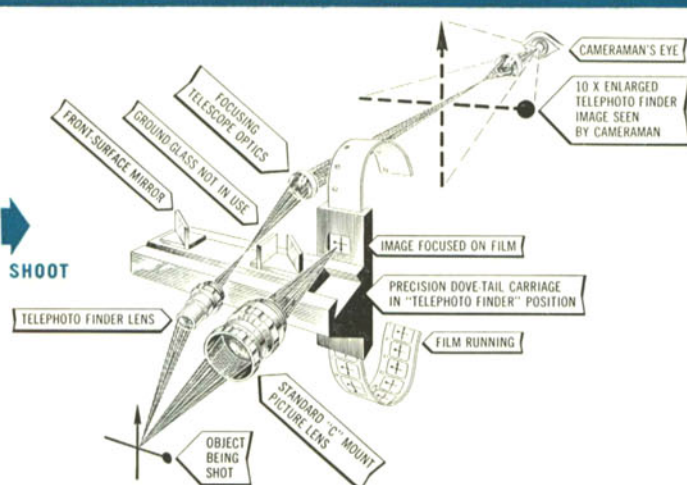
The unique and versatile features built into the 16mm Auricon "SUPER 1200" Sound-On-Film Recording Camera have prompted Producers and Cameramen to name the Super 1200... "Finest 16mm Sound Camera ever built!" This Camera is "Self-Blimped" for whisper-quiet Studio work, has 33 minutes of continuous film capacity, Variable-Shutter or Kinescope "TV-T" Recording Shutter, plus the combined "Rifle-Scope" Telephoto Finder and Reflex-Focusing Optical Systems illustrated below. Its only equal is another Auricon "Super 1200"...



### IN USE FOR FULL-FRAME GROUND-GLASS FOCUSING

"Super 1200" Reflex Ground-Glass Focusing-Frame indicates the field covered by any focal-length lens at all distances. A 10X enlarged Ground-Glass image is seen by the Cameraman, for needle-sharp critical focusing.

FOCUS



### IN USE AS TELEPHOTO-FINDER DURING FILMING

No Camera-weight shift on tripod legs when moving from focus to film-shooting position with the "Super 1200." Camera-body does not shift to focus, or shoot film, as Optical-System Dove-Tail Carriage is only moving part!

THE CAMERA OF TOMORROW, HERE TODAY! ITS ONLY EQUAL IS ANOTHER AURICON "SUPER 1200"

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### GUARANTEE

All Auricon Equipment is sold with a 30 day money-back guarantee. You must be satisfied!

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**BERNDT-BACH, INC.**

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MANUFACTURERS OF SOUND-ON-FILM  
RECORDING EQUIPMENT SINCE 1931

### Model "CM-74C" Features include...

- ★ "Rock-steady" picture and High Fidelity Optical Sound-Track recorded on same film at same time, with "whisper-quiet" Camera & Sound Mechanism synchronously driven by precision-machined Nylon gears.
- ★ "Super 1200" is Self-Blimped for completely quiet Studio use.
- ★ Built-in Electric Camera Heater with automatic Thermostat-Control, provides reliable cold-weather Camera operation.
- ★ Geared Footage & Frame Counter with built-in neon-glow indirect light.
- ★ Two independent Finder systems (in addition to Reflex Ground-Glass Focusing through the Camera lens); a brilliant upright-image Studio Finder, plus the "Rifle-Scope" precision-matched Telephoto-Finder.
- ★ 600 and 1200 ft. film Magazines available. Up to 33 minutes continuous filming.
- ★ During picture exposure, your film runs through the Auricon "Super 1200" Film-Gate with the light-sensitive film emulsion accurately positioned on jewel-hard Sapphire Surfaces, an exclusive Berndt-Bach feature (U.S. Patent No. 2,506,765). This polished Sapphire Film-Gate is guaranteed frictionless and wear-proof for in-focus and scratch-free pictures, regardless of how much film you run through the camera!
- ★ Priced from \$5,667.00 complete for sound-on-film; \$4,149.00 without sound; choice of "C" Mount lenses and Carrying Cases extra.
- ★ Sold with a 30 day money-back Guarantee and One Year Service Guarantee; you must be satisfied. Write today for your free Auricon Catalog.

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TRIPOD  
\$406.25



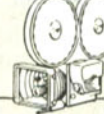
PORTABLE POWER UNIT  
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AURICON PRO-400  
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SUPER 1200  
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SOUND RECORDER  
\$3630.00

member of PSA, he is the 19th person to be awarded an Honorary Fellowship since it was founded in 1933. He is a Fellow of the Society and has been active in a number of other organizations both in America and abroad. He is an Honorary Fellow and a Past-President of the Royal Photographic Society of Great Britain.

**G. H. Cook**, a chief optical designer of Taylor, Taylor & Hobson, a Division of Rank Precision Industries Ltd., has been presented with an award for outstanding technical services to the International Cinema Industry. The award (one of three) was presented at the International Cinematography Engineering Congress held in October in Turin. Mr. Cook is the leader

of a group of scientists which has produced specially designed lenses for every phase of professional cinematography. He is the author of these papers published in the *Journal*: "35mm Camera Lenses," pp. 534-536, Aug. 1958; "Vidicon Camera Lenses," pp. 596-598, Sept. 1958; "Television Zoom Lenses," pp. 25-28, Jan. 1959.

**A. J. Buxton and M. O. Felix**, Canadian Westinghouse Co., are recipients of The National Electronics Conference Award for their paper, "The Performance of FM Scatter Systems Using Frequency Compression," which was presented at the 14th Annual National Electronics Conference, Oct. 13-15, 1958. Presentation was made

during the Conference to the inventors for a method to improve scatter communications systems by significantly reducing undesirable noise. The scatter system is used for long-range, beyond-the-horizon transmission of voice, television, teletype, facsimile, telemetering and data signals over hops of 100 to 200 miles.

**Appointment of John G. Frayne** as Manager of Development Engineering at Datalab, a division of Consolidated Electrodynamics Corp. of Pasadena, Calif., has been announced. Dr. Frayne was formerly Engineering Manager of Westrex Corp., where he held a variety of engineering and administrative posts during his 30 years with the firm. Earlier he was Professor of Physics at Antioch College. A Fellow and Past-President of the Society, he is recipient of the Journal Award (1941), the Progress Medal (1947) and the Samuel L. Warner Award (1959). He received an Academy Award from the Academy of Motion Picture Arts and Sciences in 1953 for his development of intermodulation distortion measuring techniques. He is also a Fellow of the Audio Engineering Society and is recipient of the Emile Berliner Award for contributions to the development of stereophonic phonograph records.

**C. C. Davis** has been appointed to the engineering staff of Stancil-Hoffman Corp. of Hollywood. Formerly associated with Westrex and Western Electric Co., he is the holder of 15 U.S. patents and has made many notable contributions to the field of magnetic recording. A Fellow of the Society, he is the recipient (1956) of the Samuel L. Warner Memorial Award. He was cited for "outstanding contributions in the field of sound-recording and reproducing mechanisms." The citation mentions his development of the Davis Drive film-transport mechanism and his application of its principle to disc recording drives," and the development of a "multitrack magnetic head with extremely low cross-talk." Some of his developments have been described in papers published in the *Journal*. In his new post he will be responsible for electromechanical designs of the company's magnetic film recorders, subminiature recorders and special high-resolution magnetic heads.

**Vladimir K. Zworykin** has been made an Honorary Member of the British Institute of Radio Engineers. The citation, which mentions his "invention of the storage tube . . . in 1923 (and) his more recent work in promoting an international body for the further application of electronic science in the fields of biological research and diagnosis," was read on July 2, 1959, at ceremonies held in Downing College, Cambridge. On the preceding evening, July 1, Dr. Zworykin had delivered the Fourth Clerk Maxwell Memorial lecture. The lecture on "Human Aspects of Engineering Progress" dealt with electronic developments in three separate fields, Medicine, Transport and Public Affairs. He described developments in these fields and suggested electronic developments of the future.



Wollensak Mirrotel Lenses (20", 40" and 80") extend the capabilities of high speed motion picture photography in tracking missiles and in radar boresight applications. They deliver images of excellent resolution and contrast.

**ADVANTAGES** • Because of mirror optics (the light path is "folded" three times within the system) the lenses are short and lightweight . . . are free from chromatic aberration, coma, astigmatism, distortion . . . are most stable under extreme environmental conditions. Invar rod mounting permits high boresighting accuracy.

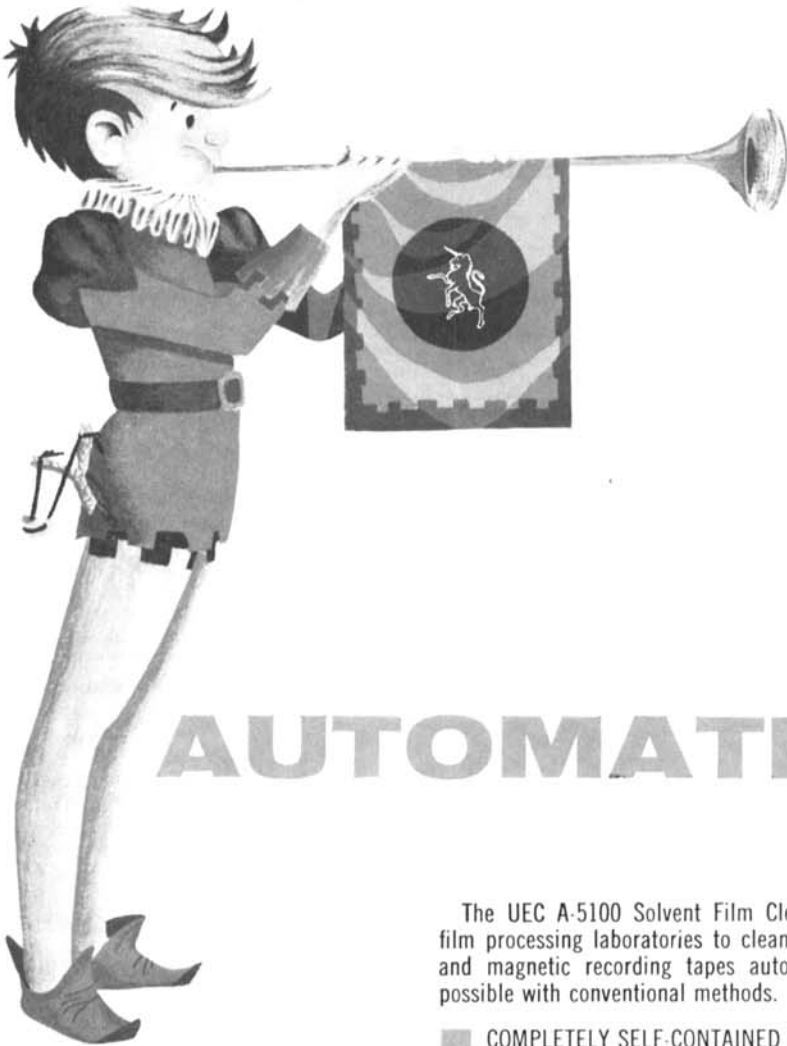
**CAMERAS** • Mirrotel lenses are extensively used with a wide variety of cameras, such as FASTAX, FASTAIR, Flight Research IV-C, Auto-max, Mitchell (16mm, 35mm), Cameraflex, Eyemo and TV cameras.

**SPECIAL FEATURES** • Mirrotel Lenses can be supplied with reticle printers, fiducial markers, continuous focusing, counters, reflex finders, radiation shields, custom mounting bases for lens and camera (illustrated), neutral density and color filters.

If you need extra long focus lenses of unusual characteristics, **WRITE** Dept. FXL for Mirrotel catalog M-1 and prices. Inquiries invited.

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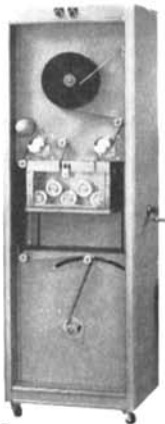


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UNICORN'S new  
film cleaner  
that will...

# CLEAN YOUR FILM AUTOMATICALLY

The UEC A-5100 Solvent Film Cleaner is designed for use in motion picture film processing laboratories to clean valuable negatives and other types of films and magnetic recording tapes automatically, faster, safer, and better than is possible with conventional methods.



\$5.500

A-5135 for 35MM film

A-5100 for combination 16 and 35MM film (permitting one size to follow the other immediately)

- COMPLETELY SELF-CONTAINED UNIT REQUIRING ONLY ADDITION OF CLEANING SOLVENT AND PLUG-IN TO AN OUTLET. DIMENSIONS ARE: 70" HIGH, 22" WIDE AND 19" DEEP.
- AUTOMATIC SHUTOFF STOPS THE OPERATION LEAVING THE MACHINE THREADED WITH LEADER.
- CONTINUOUSLY VARIABLE SPEED CONTROL BETWEEN ZERO AND 250 FEET PER MINUTE FOR EFFICIENT OPERATION ON VARIOUS FILM TYPES.
- WILL CLEAN FILM ON EITHER REELS OR CORES UP TO 3000' CAPACITY.
- EFFICIENT USE OF SOLVENT. APPROXIMATELY ONLY 3/10 PINT OF SOLVENT FOR EACH 1000' OF 35MM FILM USED. (METHYL CHLOROFORM OR FREON TF ARE RECOMMENDED SOLVENTS).
- SELF-CONTAINED AIR AND VACUUM SUPPLY.
- EQUIPPED WITH EXHAUST SYSTEM TO REMOVE EVAPORATED SOLVENT FROM THE OPERATING AREA. MAY BE CONNECTED TO EXHAUST DUCT BY MEANS OF A FLEXIBLE TUBING.
- AN AUTOMATIC SHUTOFF IN CASE OF SPLICE BREAK IS PROVIDED.
- LARGE LUCITE DOOR FOR OBSERVATION AND TO KEEP DUST OUT OF CLEANING AREA DURING OPERATION.
- NO TEMPERATURE CONTROL REQUIRED.
- FILM TRAVEL IS 9 FEET FROM CENTER OF SUPPLY HUB TO CENTER OF TAKEUP HUB.



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**George Lewin**, Chief of Pictorial Engineering and Control Office, Army Pictorial Center, Long Island City, N.Y., has been honored by being made a Fellow of the Audio Engineering Society. The award was made "in recognition of the discovery and elucidation of the infrared transparency of magnetic recording oxides." Presentation ceremonies took place on October 8, 1959, during the AES Convention in New York. The discovery mentioned in the citation was made while Mr. Lewin was making tests at the Army Pictorial Center with magnetic-striped film on a Mil-Spec or JAN projector. Mr. Lewin, a Fellow and former Governor of the SMPTE, is the recipient of the Journal Award and the Samuel L. Warner Award,

both for 1958. The Journal Award was presented for papers published in the September 1957 and December 1957 issues of the *Journal* on the infrared transparency of magnetic tracks. The Samuel L. Warner award was in recognition of the work described in these papers and other contributions in the field of recording and reproduction.

The **Christopher Columbus** award was presented to three RCA executives during the 7th International Congress on Communications held in October in Genoa, Italy. Recipients are David Sarnoff, Chairman of the Board; E. W. Engstrom, Senior Executive Vice-President; and V. K. Zworykin, Honorary Vice-President.

Presentation was made by Giovanni Gronchi, President of Italy.

The **Kenya Broadcasting Service** which began operations Oct. 1 provides a unified broadcasting system for English, African and Asian programs. Four new 10-kw transmitters have been installed by Marconi's Wireless Telegraph Co., Ltd., at the main transmitting station at Langata, near Nairobi. Four older Marconi transmitters have been transferred from Cable & Wireless Ltd. which relinquished its broadcasting concession in Kenya when the new service was inaugurated.

A **National Committee for High-Speed Photography** has been formed in association with the Royal Photographic Society of Great Britain. Aims of the Committee as set forth in the announcement are "to provide a representative national body for dealing with international matters in the field, to organize one-day Conferences in Great Britain, to stimulate and to coordinate publication, to assist in abstracting and to disseminate information on the subject." The first Conference was held September 18. Chairman of the Committee is W. Deryck Chesterman.

Interest in high-speed photography is also reflected in the formation of a committee or study-group under the auspices of the Atomic Weapons Research Establishment, Aldermaston, Berks. A letter from Kenneth R. Coleman describing the formation of this committee states: "The Atomic Weapons Research Establishment has done a great deal of work on high-speed photography... it was felt that as so much 'know-how' existed in the one place a good way of disseminating it would be by forming a committee." This committee, which, Mr. Coleman said, might also be described as a "study-group" or "working party" meets at intervals of two or three months and "is flourishing," he reports.

The **second annual American Film Festival** will be held April 20-23, 1960, at the Barbizon-Plaza Hotel in New York City under the sponsorship of the Educational Film Library Association whose membership is comprised of institutional audio-visual centers and related interests.

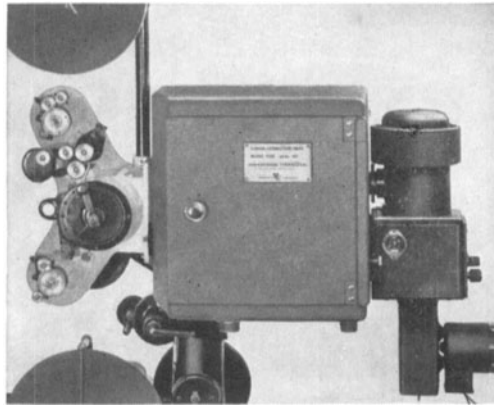
Elliott H. Kone, President of EFLA and Director of the Yale University Audio-Visual Center, has announced that all 16mm films and filmstrips released in the United States during the calendar year 1959 will be eligible for Blue Ribbon Awards and Certificates of the 1960 Festival. Thirty-four Festival competition categories are grouped under the general headings of Education and Information; Art and Culture; Religion and Ethics; Business and Industry; Health, Safety and Medicine. Those wishing to enter films may obtain detailed information and entry blanks from Miss Emily Jones, Administrative Director of EFLA, 250 West 57 St., New York 19. Entries must be filed with EFLA by midnight, Jan. 20, 1960.

A **TV program, *Man in Space***, produced by the KUHT Film Production Div. of the University of Houston's Radio-TV-Film Center under a contract with the



## HIGH-SPEED HEAD

Supplied to fit existing B&H Contact Printers Model D (35mm) or J (16mm) in your own shop



Size: 15" x 15" x 12"

### Continuous Black-and-White Printing at 200 ft. per minute

This compact high-speed head uses a single light source. Lamphouse is designed for a 100-Watt T-12 bulb with blower. Bulb alignment easily made in darkness by adjusting three knobs, providing for vertical, transverse and rotational motion of the bulb.

One electro-mechanically operated light valve provides changes in 6 milli-seconds which show as a scene change flash of 1/3 of a frame. The light valve is controlled by 5 small solenoids to provide 32 printer steps of .025 or .030 Log E. Light valve opening may be adjusted to compensate for stock changes without altering the 32-step arrangement. Head can also be used for color printing with balanced inter-colored negative.

Optical system, contained in the casting, provides uniform light on the aperture of the B&H transport. Due to a cold mirror of the effective interference type, very little heat reaches the printing aperture. Heat absorbing glass is eliminated.

No skilled technician is required to operate the head. Entire programming of scene-to-scene changes, including start, stop and lap dissolves, is automatically accomplished by the use of an 8-hole punched tape reader and memory unit. This one-channel memory unit, with reader for automatic operation of the light valve, stores the introduced information, using an 8-hole punched tape reader. It permits the printing of scene changes as small as 3 inches in length and storing of 32 printer steps plus start, stop and lap dissolves. For easy servicing, commercially available 8-hole punched tape reader is used as a base.

Head with lamphouse and blower, ready for mounting to the B&H pedestal and transport Model D or J..... \$5,500  
One-channel memory unit with reader..... \$1,650

All prices F.O.B. New Rochelle, N.Y.

**FISH-SCHURMAN CORPORATION, 85 Portman Road, New Rochelle, N. Y.**

### AUTOMATIC OPERATION

Standard punched-tape units have been recorded and modified to bring about automatic operations of film printing equipment. Punched tape performs the functions of discrete scene-to-scene light changes, dissolves shutter operation and automatic stopping equipment, adjusts light level and printer characteristics for any particular job. Complex printer operations may be performed with great accuracy at high speeds.

●  
Write for further information  
●

# ARRIFLEX® promotes your business... with ads directed to those who need motion picture films!

Throughout 1959, Arriflex advertising will be seen regularly by the nation's top management personnel. Fortune, Business Week, Management Methods, and Scientific American magazines will carry the message to a combined circulation of nearly 1,000,000 readers.

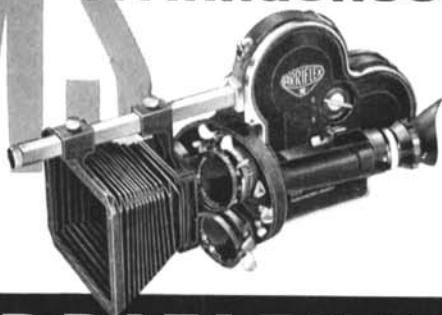
A milestone in ARRIFLEX advertising...this campaign is designed to perform a pre-eminent service to cinematography as a whole, and the professional producer in particular. A list of professional producers, who use ARRIFLEX to film quality motion pictures, accompanies the literature requested by potential motion picture users.

In this manner we say "Thanks" to you, the professional producers who have overwhelmingly accepted ARRIFLEX, and helped to make it "the choice of professionals all over the world."



## MOTION PICTURE FILMS

are the best means to **sell... teach... influence!**



### ARRIFLEX® 16

Find out why the motion picture departments of the nation's leading companies and professional film producers prefer the ARRIFLEX® 16...the world's most versatile, money saving production camera.

FREE: Mail this coupon for literature and list of professional industrial motion picture producers, to:

ARRIFLEX CORPORATION OF AMERICA  
257 PARK AVENUE SOUTH, NEW YORK 10, N. Y.

name .....

company .....

address .....

city ..... zone ..... state .....

Just a few of the hundreds of satisfied Arriflex users

- Avco Mfg. Corp.
- Boeing Airplane Company
- Bendix Aviation
- Chase Manhattan Bank
- Chrysler Corporation
- Cook Electrical Research
- Dow Corning Corporation
- E. I. DuPont de Nemours
- General Electric Co.
- General Motors
- Grumman Aircraft Engr. Corp.
- Hughes Tool Co.
- International Business Machines
- International Harvester Company
- Kimberly Clark Corporation
- Kraft Foods Co.
- Lockheed Aircraft Corp.
- North American Aviation
- Pan American Airways
- Remington Rand
- Rocketdyne, Inc.
- Time, Inc.
- U.S. Bureau of Standards
- U.S. Army, Navy, Air Force
- Western Electric Co.

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Find out why the motion picture departments of the nation's leading companies and professional film producers prefer the ARRIFLEX® 16...the world's most versatile, money saving production camera.



Write for FREE literature and list of professional industrial motion picture producers.

ARRIFLEX CORPORATION OF AMERICA  
257 5 PARK AVENUE SOUTH, NEW YORK 10, N. Y.

name .....

address .....

city ..... zone ..... state .....

National Educational Television and Radio Center, will be shown first on Dec. 7. Release to other educational TV stations will begin Dec. 20. The program will feature four scientists who will present a "preview" of man's first trip into space.

A closed-circuit system wired into eight classrooms of the University of California at Los Angeles is expected to solve an educational problem resulting from registrations greatly in excess of the anticipated number. Solution to the problem was brought about by Rudy Bretz, the University's Head of Educational Television. His advice was sought when more than 1800 students registered for a course in Philosophies of Today which had been

planned for an enrollment of no more than 350.

The First International Congress on Medical Photography and Cinematography will be held at Cologne, Germany, Sept. 27-30, 1960, in connection with the Photokina (Sept. 24 to Oct. 2). The purpose of the Congress will be to show the present status of photographic and cinematographic techniques in medicine. Detailed information is available from the Deutsche Gesellschaft für Photographie eV, Neumarkt 49, Cologne.

A legal precedent may have been established on Aug. 11, 1959, when the presiding judge for the Los Angeles Mu-

nicipal Court admitted newsfilm clips as evidence in an eviction case and permitted TV coverage of the entire trial. The court was adjourned to reconvene in the KTLA-TV studios where witnesses and attorneys were permitted to study newsfilm clips of the eviction proceedings when it was alleged, one of the families involved fought with the deputies carrying out the eviction order.

A valuable collection of sixteen Nazi-German motion-picture newsreels produced between 1940 and 1942 has been presented to the University of California, Los Angeles, Theater Arts Dept. The newsreels have a total running time of about five hours. Of the sixteen reels, approximately half have a German narration and were designed for domestic release. The remainder have a Spanish narration and were made for foreign release. A University of California research grant has been awarded to Professors Fielding, Rose and Driscoll of the Theater Arts Dept, to allow for the duplication, cataloguing and analysis of the collection.

A press conference to demonstrate a new electronic banking system designed by General Electric Co. for the Bank of America was held simultaneously in four different cities by means of closed-circuit television. The system (called ERMA for Electronic Recording Method of Accounting) uses magnetic character reading to read, sort and post an estimated 33,000 accounts per hour (about 32,755 more than the average human bookkeeper can post in the same time). The closed-circuit conference originated at the Bank of America's ERMA Center in Los Angeles and was "piped" into receiving sites in San Francisco, Chicago and New York. The new system occupies about 10,000 sq ft of space. A maze of sub-floor wiring connects all units of each system to the central computers.

An auction by TV of U.S. Defense Department surplus property including construction equipment, road building machinery, generators, trailers, machine tools and other articles was conducted by Tele-Prompter Corp, on Oct. 7 over a closed-circuit system covering six cities. The sale was broadcast to viewing locations in St. Louis, New York, Chicago, Philadelphia, Boston and Columbus, from three storage depots located at the Army Engineer Depot at Granite City, Ill.; the Air Force Depot at Shelby, Ohio; and the Philadelphia Naval Shipyard. Auctioneers at each depot described and identified the material offered for sale.

Documentation, Inc., of Washington, D.C. has become a wholly owned subsidiary of Benson-Lehner Corp. of Santa Monica, Calif., under terms of a merger announced jointly by the two companies. The Washington firm specializes in data storage and retrieval.

The merger with Ampex Corp. of Orr Industries became effective Oct. 7. The latter firm is now known as Orr Industries, a Division of Ampex Corp.



## Watch that WOW!

### with the Gaumont-Kalee FLUTTER METER

Accurate measurement of sound  
equipment speed deviations

Small constant speed deviations of the lowest 'wow' components of sound recording or reproducing equipment are accurately measured and indicated by the Fluttermeter—down to zero frequency response. The Fluttermeter is equally suitable for use with machines employing photographic or magnetic sound tracks on film, tape, wire, or disc recording.

The Gaumont-Kalee Fluttermeter type 1740 is an entirely new design. More compact, and lighter in weight, its cost is considerably less than all previous models.

#### Famous users of the Fluttermeter

B.B.C. Television and Research  
Comptelna Commerciale di Cinematografia,  
Milan  
Collaro Mullard  
Commission Supérieure Technique, Paris  
Commonwealth of Australia, Melbourne  
Dept. Posts and Telegraph, Dublin  
E.M.I. Research Laboratories  
Egyptian State Broadcasting  
Garrard Engineering and Manufacturing Co. Ltd.  
Ministry of Transport and Civil Aviation (U.K.)  
Magnavox Corporation of U.S.A.  
Ministry of Supply  
Marconi Wireless  
N.Y. Philips' Gloeilampenfabrieken, Holland and  
Denmark  
N.Z. Broadcasting System  
Post Office Research Department  
R.C.A. Photophone Ltd.  
Southern Instruments Ltd.  
Truvox Ltd.  
Vortexion, Wright & Weaire Ltd. and in U.S.A.,  
India, Poland, Hong Kong.  
Westrex Co. Limited

#### Brief Technical Data

Operating carrier frequency...3000 c.p.s. 15%  
Minimum input signal.....50 mV R.M.S.  
Input Impedance.....1 Megohm  
Input amplifier bandwidth.....-3dB at 2,500 &  
3,500 c.p.s.  
Effective limiter range.....110 dB  
Meter scaling—"Peak wow".....0 to + 1% (centre zero)  
"Wow and Flutter".....0 to 1% R.M.S. and 0 to 2%  
Crossover frequency.....20 c.p.s.  
Flutter meter response.....-3dB at crossover  
-3dB at 200 c.p.s.  
"Wow" meter response.....1 dB at 5 c.p.s.  
C.R.O. output frequency  
response.....level down to zero  
frequency—3dB at  
200 c.p.s.  
3000 c.p.s. oscillator output  
level.....5V R.M.S. into .5 Megohm  
100 mV R.M.S. into  
500 ohms  
Accuracy.....Meter presentations  
+ 2% f.s.d.  
Power consumption .....35 watts  
Operation .....45 to 60 c.p.s.

#### Dimensions

Height 10½" 26.04 cm.  
Width 12½" 31.12 cm.  
Depth 14½" 36.47 cm.

#### Nett weight

29 lb. 13.15 Kilos



Write for full details to:

**RANK PRECISION INDUSTRIES LTD**

G.B.-KALEE DIVISION—STUDIO, WOODGER ROAD, LONDON, W.12, ENGLAND



Don't ask us to help you with the love interest.

If your script needs tinkering, go to a script

doctor! Feel free, however, to come to **CECO\***

with any technical problem. Chances are we have

in stock the equipment to do what you want

done. If not, we'll alter or combine—even

custom-build it for you. Don't bet there's any

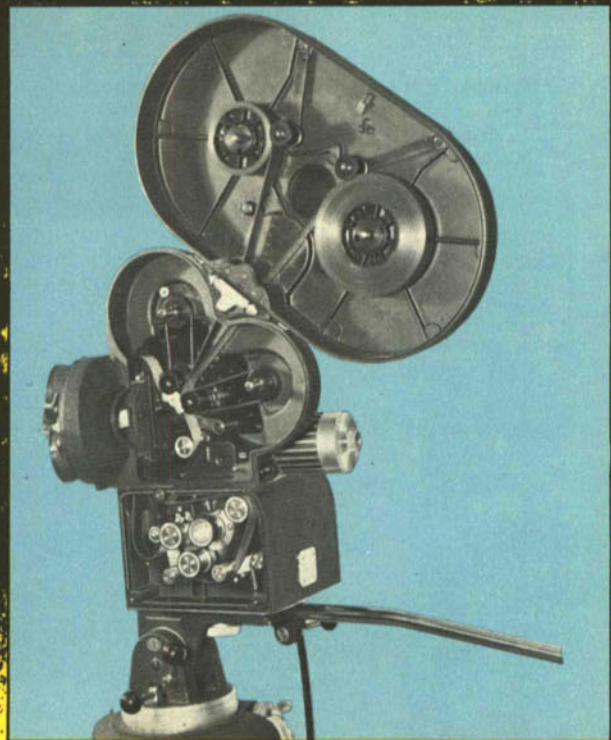
mechanical problem **CECO** can't solve. In addition,

we sell, rent and service the finest professional

photographic equipment. Your patronage is

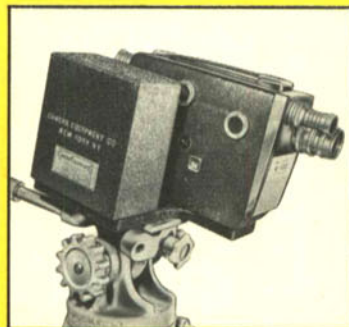
always appreciated—whether you make a major

purchase or buy a bottle of film cement.



**GAUMONT-KALEE Transistorized Magnetic Sound Attachment for ARRI FLEX 16**

Converts ARRI FLEX 16 into a single system magnetic sound camera unit that's compact, lightweight, well-balanced. Unit is mounted between camera and tripod head. Transistorized amplifier. ARRI can still be used as silent camera by simply removing sound attachment.



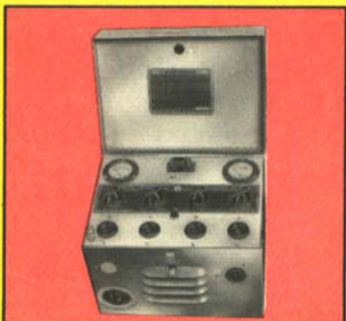
**110 Volt AC Synchronous Motor for Kodak Model K-100 Camera**

A fine, precision motor that drives camera at exact sound speed of 24 fps. Easy to attach, no special tools required. Synch motors for other cameras available.

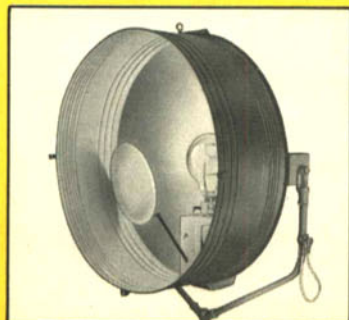
**Colortran Master "Chief" Converter**

Has every improvement and convenience feature for motion picture work.

Portable, yet large in capacity. Can be used as master control panel to set up individual line intensity variations. 30 amps from 220 volts; 45 amps from 115 volts.



**CECO Cone Lights 5000 Watt—2000 Watt—750-1000 Watt**



Floods large area with shadowless, soft light. Can be placed close to actors. Complete with switch, 25 ft. cable and yoke. (5000 Watt illustrated).

\*CECO—Trademark of Camera Equipment CO

FRANK C. ZUCKER

**CAMERA EQUIPMENT CO., INC.**

Dept. 3 315 West 43rd St., New York 36, N. Y. JUdson 6-1420

# Additional Products

CECO offers the world's largest and most comprehensive line of professional cameras, accessories, lighting, editing, processing and animation equipment including: MAURER Products (Exclusive Distributor); Oxberry Animation Equipment; Cooke Speed Panchro Series II, Kinetal, Kinoptic, and Bausch & Lomb Baltar Lenses. Other products we carry are: Color Charts - Computers - Splicers - Exposure meters - Projectors - Screens - Marking pencils and pens - editors gloves - stop watches.

## Rentals

Cameras - 16mm and 35mm

Editing Equipment

Lighting Equipment

Generators - Truck mounted or Portable

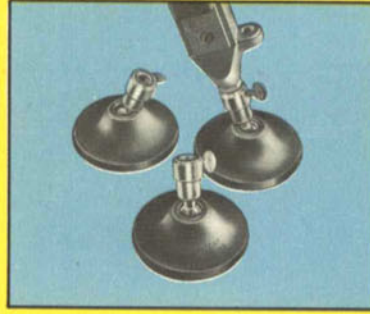
Sound Equipment

Projection Equipment

Grip Equipment

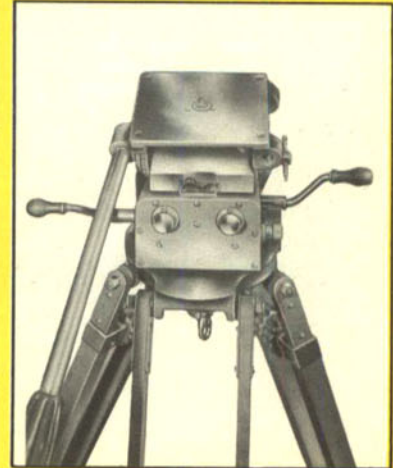
### Sta-Sets

Made of the finest rubber in the shape of a suction cup, these Sta-Sets keep tripods from slipping on any slippery floor.



### CECO Professional Junior Gyro Tripod

Features "controlled action" with slow and fast speeds for both panning and tilting. Only 19 lbs. Can be used as geared head. Ideal for 16mm Maurer, Mitchell, B&H Eyemo and similar cameras.



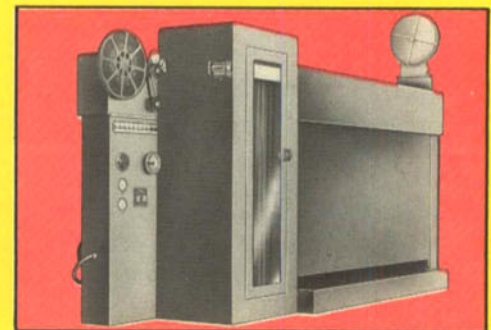
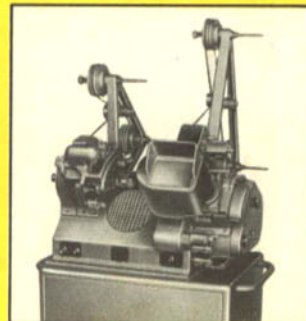
### MOVIOLA Crab Dolly

The ultimate in camera mobility. Features crab, conventional and locked steering.

Boom raised to 60" or lowered to 22" by hydraulic cylinder. 2 seats can be shifted to 6 different positions. All aluminum carriage. Length 64"; Width 34".

### MOVIOLA Film Editing Machine "Series 20"

Available in several models to meet various requirements. Streamline-styled. Clear sound quality. Convenient to use. Large screen size. Short pieces can be used without putting film on reels.



### FILMLINE Processor Model R60

Heavy duty Reversal and Negative-Positive processor with completely controlled processing. Has exclusive "Temp-Guard" system. Feed-in and take-up elevators for continuous operation. Output speeds to 3600' per hour. Other models available.

Ask about our Precision Repair and Design Engineering Service!

SALES  
SERVICE  
RENTALS

FRANK C. ZUCKER

**CAMERA EQUIPMENT CO., INC.**

Dept. 3 315 West 43rd St., New York 36, N. Y. JUdson 6-1420

Six monographs are published each year by the British Broadcasting Corp. covering certain research and development projects of its Engineering Division. Publication of the series began in June 1955 with a monograph on "The Suppressed Frame System of Telerecording." The most recent title (June 1959) is "A Quality-Checking Receiver for VHF FM Sound Broadcasting." The series is available by subscription at \$3.00 a year or individual copies may be purchased at a price of 75 cents. A list of titles is available upon request from Anthony Graham, Assistant Circulation Manager, Export, BBC Publications, British Broadcasting Corp., 35 Marylebone High St., London, W.1.

Charles A. Nichols has been appointed Engineering Manager of Conrac, Inc., Glendora, Calif. Prior to his present appointment he was Vice-President in charge of Engineering of Hoffman Electronic Corp., Consumer Products Div.

Eugene B. Fleischer has been appointed chief of the Film Section of the Radio-TV-Film Dept. of the University of Miami. He succeeds C. Henderson Beal who has resigned. Mr. Fleischer has been associated with the University of Miami since 1958 when he became film editor for a series of color films, *Survival in the Sea*. Earlier appointments included Director of Motion-Picture Photography at the University of Nebraska and at Virginia Polytechnic Institute.

George T. Eaton of Kodak Research Laboratories has been re-elected President of the Society of Photographic Scientists and Engineers for a two-year term, 1959-1961. Other officers re-elected are: Steven Levinos, AnSCO, Executive Vice-President; John A. Maurer, JM Developments, Engineering Vice-President; and Herbert Meyer, Motion Picture Research Council, Financial Vice-President. Newly elected officers are: R. Clark Jones, Polaroid Corp., Editorial Vice-President; and C. Graham Eddy, Medical Illustrations Div., Veterans Administration, Secretary-Treasurer. The SPSE National Conference will be held October 26-30 in Chicago.

Edwin J. Deadrick has been appointed plant manager of Audio Devices, Inc. He will be responsible for operation of the company's two subsidiaries in Stamford, Conn., The Audio Tape Corp. and the Audio Manufacturing Corp. Prior to his present appointment he was plant manager of Howard Plastics, a division of W. R. Grace.

Frederick T. Parsons has joined Filmline Corp. as Chief Engineer. He will design and supervise the manufacture of photographic equipment, primarily, color film processors. Prior to his present appointment he was Chief Engineer for Pathe Laboratories and Pathecolor, Inc. During World War II, he designed special equipment for Wright Field Air Force Base and worked on an equipment program for handling aerial gunnery and military training films.

## Obituaries

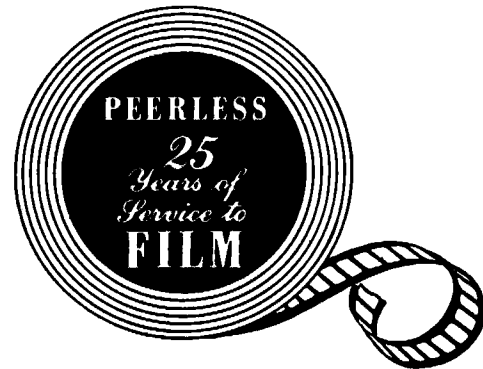


Edgar Gretener

Edgar Gretener died in October of last year, in Zurich, Switzerland, at the age of 56. A Fellow of the Society, he was widely acclaimed for his work in developing the Eidophor color television projector and

other scientific achievements. He was born March 3, 1902, in Lucerne. He studied electrical engineering at the Swiss Federal Institute of Technology, Zurich, which conferred upon him the degree of Doctor of Science. His professional career began in the firm, Albiswerk, in Zurich, a subsidiary of Siemens & Halske, where he became head of the Research Laboratory. In 1930 he joined the parent company in Berlin as head of the Telecommunication Laboratories, and shortly thereafter he was appointed one of the three Directors of the Central Laboratory. During the time he was in Berlin he devoted considerable work to the development of lenticular film for color photography, a project that was later abandoned in favor of a different method, still under development at the time of his death.

Shortly before World War II he returned to Switzerland after having refused to



## Scratches on Film Irritate Audiences

Scratches are havens for dirt, and refract light improperly. On the screen, they mar the picture and may distract attention. If on the sound track, they produce offensive crackling.

Fortunately scratches can almost always be removed — without loss of light, density, color quality, or sharpness.

*Write for brochure*

**PEERLESS**  
**FILM PROCESSING CORPORATION**  
 165 WEST 46th STREET, NEW YORK 36, NEW YORK  
 959 SEWARD STREET, HOLLYWOOD 38, CALIF.