

The American Film Institute has announced the opening of the 300-seat American Film Institute Theatre at the National Gallery of Art in Washington, DC, where rarely seen motion-picture classics will be shown. Opening date of the theatre was January 17. During the opening season, six eight-day programs will be shown from January to June. The first group of pictures were chosen to illustrate the richness and diversity of Hollywood in the silent era. Films in the first group included D. W. Griffith's *Intolerance*; *The Cameraman*, with Buster Keaton; and *Exit Smiling* with Beatrice Lillie. Later programs for the first season include vintage Westerns, a representative showing of recent European films, an Orson Welles retrospective and others. Information about AFI membership and ticket availability may be obtained from Michael Webb, American Film Institute, 1815 H St., N.W., Washington, DC 20006; or Howard Haines, John Springer Associates, 667 Madison Ave., New York, NY 10021.

**A Conference on the Optimum Reproduction of Color**, sponsored by Inter-Society Color Council, will be held January 31-February 3, 1971, at Williamsburg, VA. Papers and discussions presented at the conference will be mainly concerned with examining what relationship between original and reproduction produces the best reproduction, taking into account the inherent limitations in color gamut, changes in size, viewing conditions, sharpness, etc., of the reproduction processes. The aim of the conference is to stimulate research in this area so that those who participate can benefit from the latest information available at the time of the conference. All types of color reproduction will be considered including color photographs of live scenes (still or motion pictures), printed reproductions of color photographs or paintings and color television. Five invited papers will be presented and contributed papers will be pre-printed and distributed to registrants before the conference. Further information is available from either of the Co-Chairmen, W. L. Rhodes, Xerox Research Laboratories, Xerox Square, Rochester, NY 14603, or J. A. C. Yule, Graphic Arts Research Center, Rochester Institute of Technology, 1 Lomb Memorial Drive, Rochester, NY 14623.

**Production '70**, a two-day workshop in video-tape techniques was held in October at Reeves Lincoln Square as part of the Reeves Workshop Program sponsored by Reeves Telecom Corp. Highlights of the workshop included panel discussions by television directors, set designers, lighting designers and advertising people and lectures and discussions by well-known television producers and directors. The keynote speaker was Morton Dubin, Vice-



At the direction of the Board of Governors, a certificate of commendation was presented recently in Hollywood by Executive Vice-President Wilton R. Holm (right) to John R. Sullivan, in recognition of the great contributions he has made over the past many years to the organization of Society-sponsored courses in Los Angeles and to the SMPTE's educational activities generally. Mr. Sullivan is just beginning a term as Governor of the Society.

President of MPO Videotronics, who told the group of more than 100 advertising and production people that video tape is "the paint and brush of the artist who uses the television tube as his canvas." Several video tapes shown at the session were seen for the first time. Director Max Katz, of Pelican Films, prepared an original production for the workshop. NET's Curtis Davis presented a preview of a network television special featuring the La Mama troupe. Fred Barzyk of WGBH-TV showed a video tape created by artists with no prior television experience who experimented in a television studio. Other members of the group were Bob Schwarz, Director of the Ed Sullivan Show; and Ray Abel, Staff Director at WCBS-TV. Moderator of the session was Dick Christian of Reeves Production Services. Video tapes of certain of the seminars will be made available for private showing by groups or individuals. Information about Reeves Workshops is available from Reeves Actron, 565 Fifth Ave., New York, NY 10017.

The Numerical Control Society will hold its 7th Annual Meeting and Technical Conference April 8-10 in Boston. Theme of the conference will be NC - Management's Key to the 70's. The program will include 15 sessions, plant tours and other events. Further information is available from Numerical Control Society, 44 Nassau St., Princeton, NJ 08540.

**Refocus** is a multivisual conference on photography and cinematography to be held March 23-28 at Iowa City, IA, concurrently with the annual meeting of the Society for Photographic Education. Activities of Refocus will include the showing of feature films and the screening of a

number of student, underground and short professional films, in addition to lectures by qualified persons. Further information is available from Refocus, Iowa Memorial Union, University of Iowa, Iowa City, IA 52240, c/o Ray Kril, Films Advisor.

**E.A.T. (Experiments in Art and Technology)** has announced an exhibition called **Projects Outside Art** to be held in October at Automation House, 49 E. 68 St., New York, NY 10021. The exhibition will present five projects produced by five teams of artists, engineers, scientists and other professionals working in collaboration. A symposium and a conference will be held concurrently with the exhibition on the cultural relevance of the interaction between artists and engineers. E.A.T. has invited project proposals from individuals. On the basis of the proposals a committee will assign selected individuals to collaborative teams. Projects for the exhibition will deal with such subjects as education, health, concern for the natural environment, climate control, transportation, energy production and distribution, communication, food production and distribution, cooking, entertainment and sports.

In a separate release, E.A.T. announced a charter flight being organized for members who wish to visit Japan and attend Expo '70. Further information about **Projects Outside Art** and/or the charter flight is available from E.A.T., 235 Park Ave. South, New York, NY 10003.

**A seminar on Fiber Optics: Applications and Technology** was held January 28-29 in Dallas, TX. Co-sponsors were the Society of Photo-Optical Instrumentation Engineers (P.O. Box 288, Redondo Beach, CA

90277) and the U.S. Army Material Command, Electronics Command Night Vision Laboratory. There were four sessions: Technology, Standards and Specifications, Applications, and Materials. Session Chairmen were (in that order) Walter P. Siegmund, William L. Stahl, Narinder S. Kapany and John T. Yanagi. The Welcome Address was delivered by Clyde S. Holliday.

The U.S. Industrial Film Festival has appointed new board members representing industry, government and education, in preparation for the third annual awards competition, it was announced by Festival Chairman, J. W. Anderson. New board members are: G. Roger Cahaney, Robert M. Finehout, Jack Lusk, Ed Swanson, Scott Craig, R. Peter Rigg, Richard C. Fowkes, Carl Degan, Hazen J. Schumacher, Jr., and Harry E. Paney.

Advisors continuing from previous appointments are: Peter D. Crane, Ira Eaker, Allen Zwerdling, Marv Gold, Lon B. Gregory, John P. Grember, Frank J. Havlicek, W. Ray Hyde, Robert B. Konikow and W. R. Terrell.

Films produced throughout the world are invited into the competition with an entry deadline of March 1. Further information is available from U.S. Industrial Film Festival, 161 East Grand Ave., Chicago, IL 60611.

The United States Institute for Theatre Technology has announced final plans for the 10th Annual Conference to be held April 15-18 in New York. Panels at the conference will discuss sound reproduction and reinforcement for theater; staging for dance; a review of the National Electric Code as it affects theaters; new equipment and procedures in technical production; and the architecture and psychology of aesthetic distance. Tours will include a major scenic studio, theater facilities at the new Julliard complex at Lincoln Center and a Broadway theater. Further information is available from USITT Conference, 245 W. 52 St., New York, NY 10019.

International Film Festival 71 will be held August 21-27, 1971, in Brisbane, Australia. Dr. Walter Monz has been appointed Honorary Organizer. The Festival will be limited to the screening of 16mm prints with either optical or magnetic sound, preferably with English narration. It is expected that the program will include some 70 productions from foreign countries as well as from Australia. Films selected for the program may be submitted in the Awards screenings which will take place during the two weeks prior to the Festival. Special awards in the form of commemorative medallions in gold, silver and bronze will be awarded to films of exceptionally high value in the field of medical education produced since 1968. Cinematography and presentation will also be taken into consideration in making the awards. Further information is available from Dr. Walter Monz, M.B.K.S., 2 Lake St., Yeronga, Post Code 4104, Queensland, Australia.

The National Audio-Visual Association (NAVA) will hold its annual convention

July 18-21 in Washington, DC. Convention activities will include a trade show. Also announced was the National Institute for Audio-Visual Selling to be held in July at Indiana University, Bloomington, IN. Further information is available from the National Audio-Visual Association, Inc., 3150 Spring St., Fairfax, VA 22030.

The CBS Electronic Video Recording System (EVR) has been selected as one of the 100 most significant new American products of 1969 by Industrial Research, Inc., in cooperation with the National Conference on Industrial Research. Selection of the 100 products to be recognized by presentation of the IR-100 Award was made by a panel of 30 scientists, engineers and research administrators, including five Nobel Laureates. EVR was cited for its "technical importance, uniqueness and usefulness." The IR-100 Award was accepted on behalf of CBS by Dr. Peter C. Goldmark, CBS Laboratories President, who headed the engineering team responsible for EVR. (The design and operation of EVR were described in the November 1967 issue of the *Journal*, p. 1165.)

Motorola, Inc., is the first American firm to manufacture EVR players for mass deliveries in North America, beginning in July. The Bush-Murphy Division of the Rank Organization in England is producing EVR players for European deliveries on a similar schedule.

Librarie Hachette, the French publishing house, Thompson CSF, manufacturer of television and electrical equipment in France, and the Banque de Paris et de Pays-bas will form a consortium to promote CBS Electronic Video Recording in France, it was announced on December 10 at the Air France building in Paris during the first public demonstrations of EVR in France. The EVR Partnership, consisting of Columbia Broadcasting System, Imperial Chemical Industries, Ltd., of Great Britain and CIBA of Switzerland, has opened its European office in Paris. Jack Lewis is Managing Director of the Partnership and Jacques Ferrari, General Sales Manager, Europe, heads the Paris office. The Partnership, based in London, exploits EVR worldwide except for North America, which is the territory of CBS Electronic Recording Division. Formation of the consortium for France includes the EVR Partnership's second announced European agreement for manufacture of EVR players. Rank Bush Murphy was announced earlier as licensee to manufacture EVR players in the United Kingdom.

*Billy Budd* is the first full-length feature film to be converted to EVR cartridge format, it was announced jointly by Robert E. Brockway, President of CBS Electronic Video Recording Division, and Roger W. Hurlock, President of Hurlock Cine World, Inc. The film is presently listed in conventional form in the 1970 Hurlock Cine World catalog. Packaged in sets of three EVR cartridges, it will become a rental or lease item for the libraries of colleges, universities and other educational institutions.

The New York Times, Times Square, NY 10036, and Arno Press, a subsidiary, have announced publication (March 1, 1970) of *The New York Times Film Reviews (1913-1968)*, a five-volume set containing all the film reviews that appeared in *The Times* from 1913 through 1968. More than 16,000 reviews will be reprinted in their entirety in the five volumes and a cumulative index for the collection is contained in a separate volume. The reviews will be arranged in chronological order with some three or four reviews on each page. Among the reviewers are Mordant Hall (*The Times* first film critic), Frank S. Nugent, Bosley Crowther, Thomas Pryor, Renata Adler and Vincent Canby.

The cumulative index, conceived as a major aid to film research, will be cross-indexed according to title of film, name of actor, writer, director, etc., and name of production company. The index is intended for use as a separate reference source as well as a means of ready access to the volumes of reviews. In addition to the reviews the volumes include winners of Academy Awards for every year since 1927 and *The New York Times* annual lists of "Ten Best Films" since 1919. Screen credits and illustrations, where they appear in the original review, are frequently included.

*The New York Times Film Reviews* will be priced at \$395; however, a special pre-publication price of \$345 applies to all orders received before March 1.

The Optical Sciences Center at the University of Arizona is one of the two institutions in the United States offering graduate degrees (MS and PhD) in Optical Sciences. (The other is the University of Rochester.) Courses cover all phases of Optical Science including lectures and laboratory work. The first degree of Doctor of Philosophy in Optical Science to be granted by the University of Arizona was granted to Dean B. McKenney on September 1, 1969. Financial assistance for graduate students in the Optical Sciences is available through various fellowships and grants. Information about the Graduate Program is available from Dr. R. H. Noble, Optical Sciences Center, the University of Arizona, Tucson, AZ 85721.

The Winona School of Professional Photography, 1090 Executive Way, Des Plaines, IL 60018, has announced its 1970 course schedule. Thirty-six courses in photography and related subjects will be offered during the period May 24 to August 28. Although most of the courses are related to still photography, courses related to motion-picture techniques include Motion Picture Camera techniques; Industrial Film Workshop and Motion-Picture Editing. The school is operated by Professional Photographers of America.

An explosives protection device, developed by Petro Vlahos, Chief Scientist of the Research Center of the Association of Motion Picture and Television Producers, which protects explosive charges from premature or accidental detonation, is being distributed to Hollywood studios for intensive on-the-job testing, it was announced by Charles S. Boren, AMPTP Executive Vice-President. One or two units will be sent to

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each studio employing powdermen. The device allows an explosive to be fired by a 49.5-V charge from a firing battery, but rejects other voltages that might be caused by static discharges, radio transmitting equipment, set lighting systems or low voltage leakage on wet locations.

A data-transmitting system based on an unusual use of a light beam has been developed at the University of Colorado by Jack R. Baird, Professor of Electrical Engineering, assisted by two Electrical Engineering seniors, Larry Potter and Bill Stout. The system was developed in an effort to find a more economical way of connecting the Engineering Research Center on the campus with the Computing Center about 3,000 ft distant than by microwave line-of-sight radio beam or by use of several baseband telephone circuits. The system connects the Engineering Research Center and the Computer Center so that computer terminals in the Engineering Center can be linked to equipment at the Computing Center. The basic transmitting element is a gallium arsenide infrared light emitter; basic element of the receiver is a phototransistor and the system uses a condensing lens 5 in in diameter. Total cost of the three main elements in the system was about \$60. It was noted in the announcement, however, that development and other costs brought the cost of the installation to about \$5,000.

**Space Is Not Enough: Planning Facilities for Media** is a color sound filmstrip produced by the Industry and Business Council of the National Audio-Visual Assn. (NAVA). The 16-min filmstrip is intended to assist in the planning of business and educational facilities which are adapted to modern audio-visual capabilities. The filmstrip combines a series of dramatic photographs and simple diagrams with a narrative to show that the architectural design of educational and meeting facilities should support the effective and efficient uses of audio-visual media. It emphasizes the importance of early planning so that rooms and other spaces can be made in a size and shape to encourage effective communications and so that environmental factors such as ceiling heights, seating, projection screen size and placement, power outlets, lighting, etc., can be planned with audio-visual requirements in mind. Copies of the filmstrip, record and guide are available at a price of \$12.50 plus postage (\$10.00 prepaid if payment accompanies order) from NAVA, 3150 Spring St., Fairfax, VA 22030.

The third microfilm edition of the *Cumulative Index to the Classification of Patents* is available from Clearinghouse (152.12), U.S. Department of Commerce, Springfield, VA 22151. Published by the Patent Office, the new cumulative index contains the official listing of all patent numbers issued through December 31, 1968, more than 3,415,000. The index consists of 16 reels of 16mm film. The complete set is priced at \$70. Reels may be purchased individually for \$6 each.

Graphic Consultants Ltd., 603 Church St., Toronto, Can., has announced availability

of a catalog of historic films made in Canada. The films (some 2,400) were discovered in 1965 in an old barn in northern Ontario. Most of the films were made about 40 years ago in Ontario and Quebec. The films were bought by Graphic Consultants and most of them (about 95%) are in good condition. Originally on 28mm stock, they are being transferred to 35mm. The collection includes early feature films and a number of documentaries on such subjects as the early days of mining, industrial production, Great Lakes navigation, early Ontario roads, farming, etc.

A three-day seminar on Techniques and Applications of High-Speed Photography was held in October at Parsippany, NJ. The seminar, sponsored by Photographic Analysis Co., 190 Alps Rd., Wayne, NJ 07470, was conducted by Charles A. Jantzen. In addition to lectures and discussions, instruction was given on the use of such cameras as Fastax Hycam and Nova. Topics discussed at the seminar included film, lighting, oscillography and microscopy with high-speed cameras, equipments and techniques. Mr. Jantzen has been active in the field of high-speed photography since 1941. He has conducted a number of seminars and he frequently speaks before various technical groups on subjects related to high-speed photography and instrumentation.

Computer Image Productions, a new division of Computer Image Corp., Denver, CO, has been formed to produce educational and industrial films and tapes utilizing Scanimate and Animac Computers. The first film produced by the division is *The Streets and Avenues of the World*, first in a series of 15 films on geographies to be produced by the division. In a separate announcement, Bruce L. Birchard, President of Computer Image Corp., said that a new service center, first of several to be established, has been opened at 268 South Beverly Dr., Beverly Hills, CA. Equipment in the new center includes the Scanimate Computer and associated filming equipment and an optical printer for processing the film produced by the Scanimate.

Visual Electronics Corp., 356 W. 40 St., New York, NY 10018, has acquired Raytheon Learning Systems Company in Michigan City, IN, according to an announcement by Raytheon Company, Lexington, MA 02173. Visual Electronics will conduct the business with the present management and personnel as its Information Systems Division and will lease from Raytheon the 94,000-ft<sup>2</sup> manufacturing plant now nearing completion in Michigan City. Raytheon product lines to be acquired by Visual Electronics include language and learning laboratories, broadcast and closed-circuit TV systems, student response systems and driver education systems.

Technology Inc. has announced acquisition of Houston Fearless Corp.'s Westwood Division in Los Angeles, according to

terms of an agreement between the two companies. Technology, Inc., with facilities in New York, Texas, California, Michigan and Illinois, is engaged in various areas of aerospace research and development for government agencies and private industry and the manufacture and sale of electronic, photographic and metal products and control equipment for industrial and public utility power plants. Westwood is engaged in the development, manufacture and sale of film processing and handling equipment, photographic laboratory installations and television studio equipment. James E. Remmer, Vice-President of Houston Fearless Corp. and General Manager of Westwood Division will become President and General Manager of the new Technology subsidiary.

Cintron, Grove House, 551 London Road, Isleworth, Middlesex, England has been appointed sole distributor of Ballancroft lighting equipment. Ballancroft Film & TV Company, Ltd., of 292 Worton Road, Isleworth, Middlesex, specializes in the design and manufacture of lighting equipment for motion pictures and television.

The name of Holland-Wegman Productions, Inc., 207 Delaware Ave., Buffalo, NY 14202, has been changed to Mars Productions, it was announced by Paul Sciandra, President. The firm is a subsidiary of Niagara Frontier Services, Inc. Holland-Wegman was founded in 1953 to produce motion pictures, strip films, slide films, video-tape programs and multimedia presentations. Mr. Sciandra also announced four appointments: Wayne D. Appleton, Sales Manager; John W. Cantillion, Senior Account Executive; Robert B. Rieska, Production Manager; and Michael A. McNerney, Business Manager and Executive Assistant to the President.

Graphic Consultants Ltd., 181 Belsize Drive, Toronto 295, Ont., Can., has been appointed Canadian distributor for the Metro/Kalvar Printer-Processor (*Journal*, p. 308, Apr. 1969). The machine uses the Metro/Kalvar dry film process to produce black-and-white 35mm, 16mm or double 8mm positive prints at speeds up to 100 ft/min.

Rank Precision Industries, Inc., is a new firm created by The Rank Organisation to handle the United States market for a broad line of Rank industrial products. Headquarters of the new firm are at 260 North Route 303, West Nyack, NY 10994. C. R. McLendon is President of the new American subsidiary. Products formerly handled by Albion Optical Co. of West Nyack will be included in the Broadcast Division of Rank Precision Industries, one of four new divisions. The others are Metrology, Analytical and Industrial. The Broadcast Division (formerly Albion Optical Co.) includes Cintel electronic products and Taylor Hobson lenses for motion pictures and television.

Rank Strand Electric Ltd., a firm specializing in theater and TV lighting and control systems, has acquired Century Lighting of New Jersey and Los Angeles from the

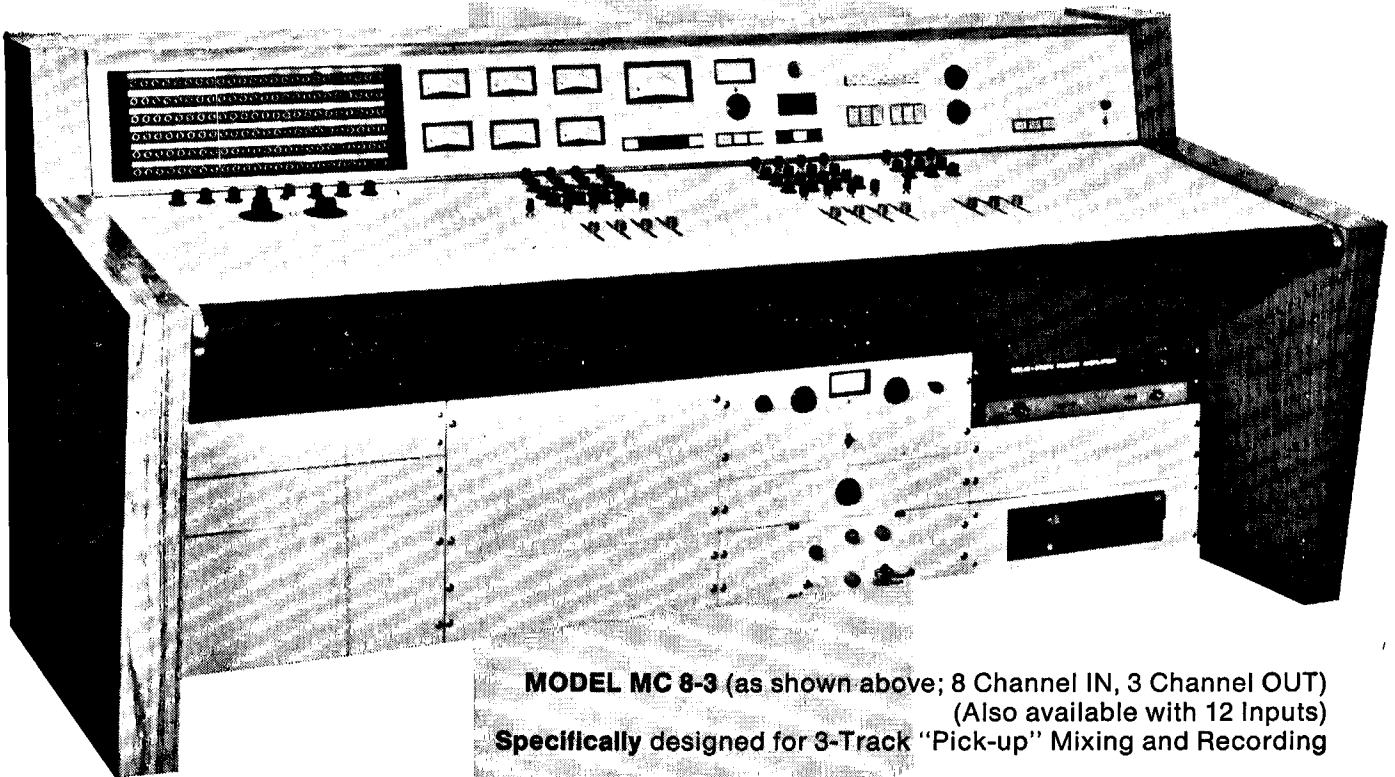
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The World War II setting was represented as the New Hebrides, but it was in the thick, muggy Philippine jungles that producer-director Robert Aldrich shot almost all of the footage for "Too Late the Hero", his first war movie since the spectacularly successful "Dirty Dozen."

The script required a complete British Army camp; the ruins of an island temple; several army watch towers; and the clearing of a number of 5-acre "pockets" for general movie action. That's a lot of work to do in an untamed, rugged tropical jungle; but complete authenticity was Mr. Aldrich's prime requirement in this \$8-million co-production of Associates and Aldrich Company and ABC Pictures Corp. Many of the jungle warfare scenes, for example, were enacted on as broad scale as the real battle would have been, even though the concealed cameras might be photographing only a part of the action.

Scrupulous attention to detail is one of the reasons behind Mr. Aldrich's admirable string of box-office successes, including "What Ever Happened to Baby Jane," "Flight of the Phoenix," and the "Killing of Sister George".

Mr. Aldrich compounds his films' appeal by adding the biggest-name performers . . . in "Hero," they include Michael Caine, Cliff Robertson and Henry Fonda.

Another "name" contributing to the excellence of the production was that versatile behind-the-scenes performer, Arriflex.

Anticipated to be released in 70mm as well as for 35mm wide screen presentation, the entire \$8,000,000 feature—some half million feet of color film—was shot exclusively with Arriflex 35's. Floated on tiny, native built rafts in beach front scenes, hand-held through jungle trails and hacked-out clearings, the Arriflexes were among the top performers. And there are not many locations that are harder on talent, crew and equipment than the hot, steaming, muddy Philippine jungle.

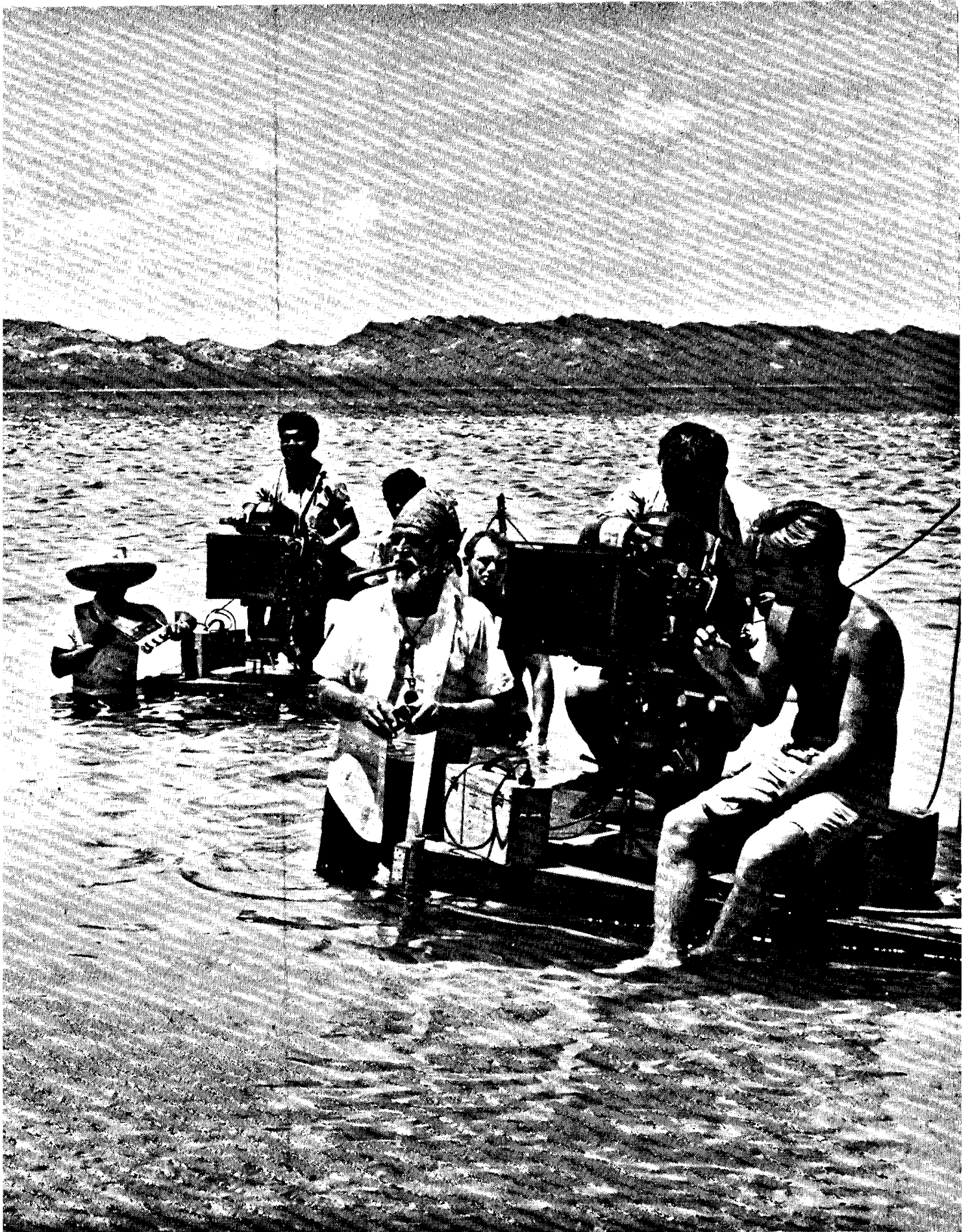
"But more to the point", states Director of Photography, Joseph Biroc, ASC, "it was Arriflex itself that helped us get out of the jungle as quickly as we did. We were able to accomplish many more camera set-ups a day than experience with larger, heavier cameras had let us to expect".

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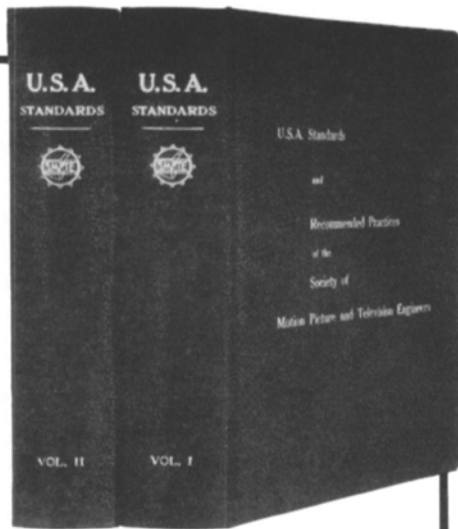
Producer/Director—Robert Aldrich



Director of Photography—Joseph Biroc, A.S.C.

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Lighting Corp. of America. A new company, called Century Strand, Inc., will combine Rank Strand Electric's present operations in North America with those of Century.

Treck PhotoGraphic Inc., 434 Midtown Tower, Rochester, NY 14604, has opened a branch office in Spokane, WA, following acquisition of Kasper's Photo Supply in Spokane. David Reed, formerly with Kasper's will continue as supervisor of the new Treck branch. Philip Weider, Manager of Treck in Seattle, has been named Washington Regional Manager and will be in charge of both Seattle and Spokane.

Dubbings Electronics, Inc., Copiague, NY, has announced the establishment of a Planning and Development Division to provide audio-visual services to schools, industrial organizations and the music and entertainment fields. Services include the making of prerecorded cassettes from material provided by schools, organizations and individuals, preparation of audio and audio-visual material and production of single prerecorded cassette programs or series of programs, lectures and seminars.

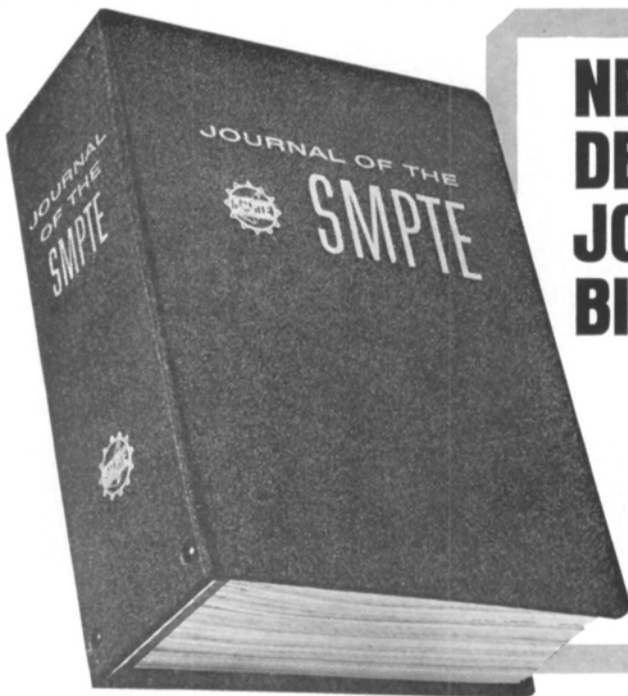
Westinghouse Learning Corp. has established a Center for Advanced Systems at 5809 Annapolis Rd., Hyattsville, MD 20784, for the research and development of methods and materials for individual instruction at the junior college level. The Center will be directed by Attila Csanyi.

Alan Gordon Enterprises Inc., 5362 N. Cahuenga Blvd., North Hollywood, CA 91601, has been appointed distributor of RCA Corp. in the Western states. The firm will handle the complete line of RCA projection equipment, including self-threading 16mm motion-picture projectors, microphones, speakers and accessories.

ABTO, Inc., a firm recently formed by Technical Operations, Inc., and American Broadcasting Companies, Inc., to continue development of commercial television and motion-picture applications of a process for taking color pictures on black-and-white film, has announced the opening of offices at 1926 Broadway, New York, NY 10023. Newly appointed officers of the firm are Albert W. Malang, Vice-President for Engineering and Manufacturing; H. Charles Riker, Vice-President for Marketing and Edmund L. Bouche, Vice-President for Research and Development.

Arthur L. Ingalls, a consultant in optics, has established an office at 2835 Montmart Dr., Orlando, FL 32809. He was formerly at Ann Arbor, MI. Mr. Ingalls has had a long career in optics and is known as a pioneer in the field of optical data processing. Equipment in his Florida office includes full-size drafting facilities and a Friden electronic calculator. He also has access to a shared-time computer.

Harry F. Olson, a consultant to RCA Laboratories, is the recipient of the 1969 Consumer Electronics Award of the Institute of Electrical and Electronic Engineers.



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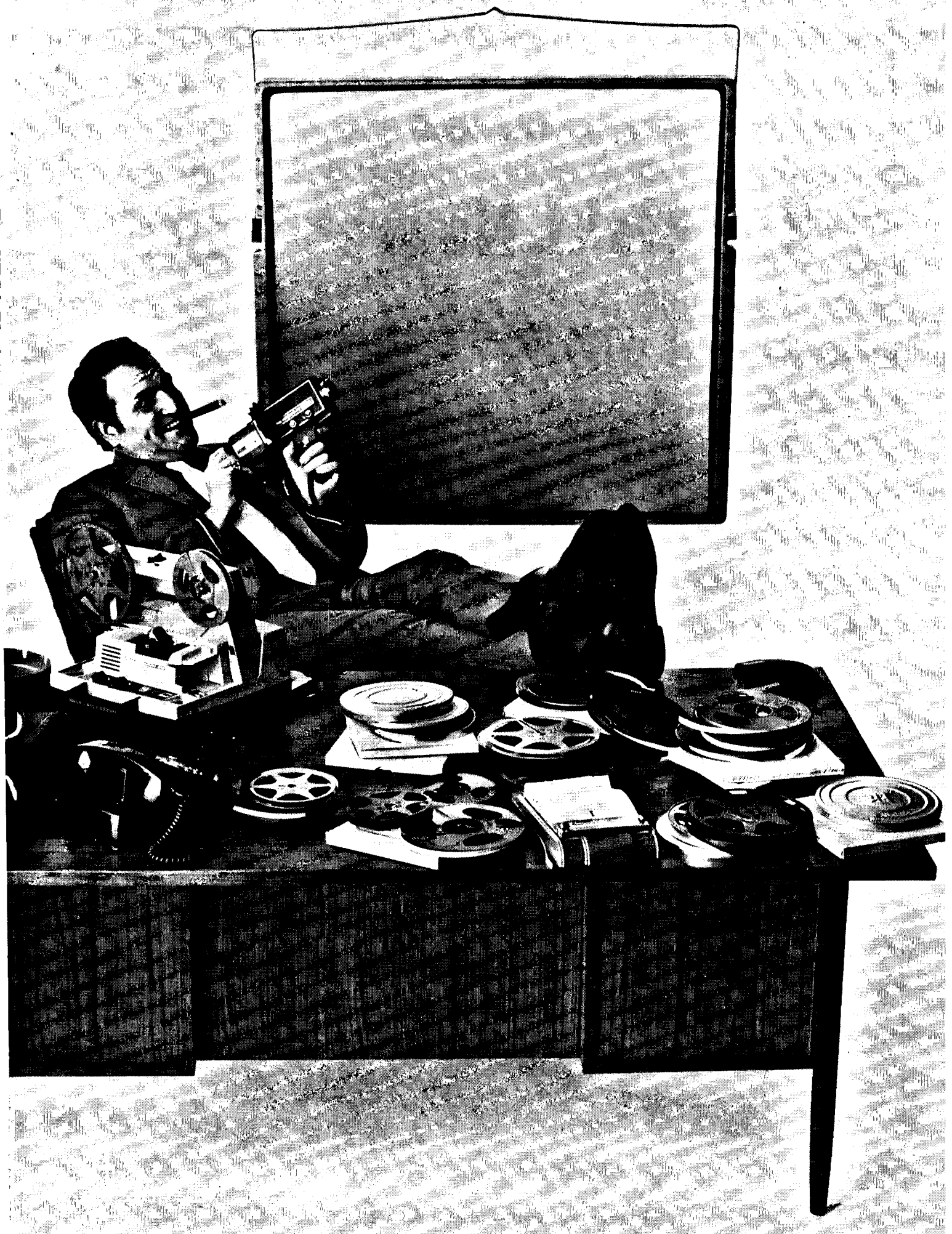
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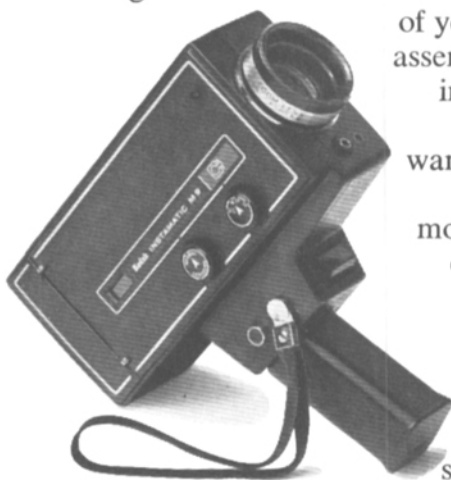
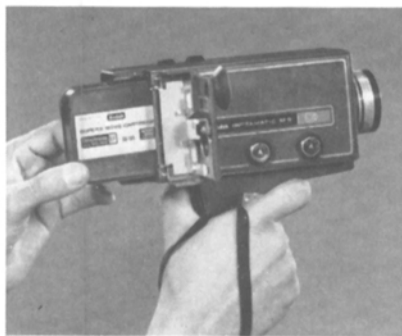
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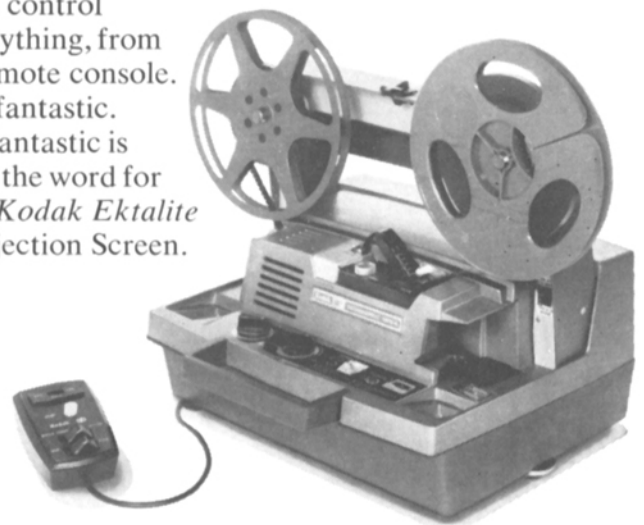


of your available-light assembly-line shooting, including close-ups. Naturally, you'll want to put this great new film in the most flexible super 8 camera, and that's the *Kodak Instamatic*® M9 Movie Camera. Take your pick of four shooting speeds; put the five-to-one zoom lens to work; use the single-frame capability; count on the CdS exposure system. It's handy and really compact.

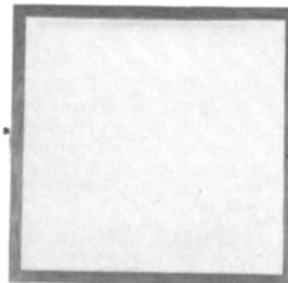
And speaking of single-frame capability, here's the end result, the *Kodak Ektagraphic* MFS-8 Projector. This amazing new machine lets you combine the still-frame advantages of filmstrips with the motion advantages of movies. It's all done automatically with special cues on the film, which you can put there yourself, to stop the projector on any

desired frame. So now, titles and other still pictures need only one frame while things that move, move! You control everything, from a remote console. It's fantastic.

Fantastic is also the word for the *Kodak Ektalite* Projection Screen.



It's brought movie projecting out of the dark ages. With this screen you can project your images in broad daylight, with more brightness and clarity than you ever had in the dark.



See your dealer who handles Kodak audiovisual equipment or contact one of the offices listed below

and get your Big-Time Producer's Kit. It's the most versatile movie-making package you can buy. And, who knows—it might even get your name on the door.

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Mitchell has designed an incomparable reflex system into the BNC. This is no makeshift "conversion" but was designed as an integral part of the time-tested BNC to give the film-maker every desired studio capability including zoom lens control.

**Features:**

- 93% reflective stainless-steel mirror alternates full light between reflex optics and film.
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Presentation was made at the National Electronics Conference in Chicago. Dr. Olson was honored for his many achievements and contributions toward the improvement of consumer electronic home instruments. He was pioneered in the development of microphones, loudspeakers and headphones; the magnetic recording of television signals; the recognition analysis, coding and synthesis of speech; the advancement of electronic and electromechanical printout systems and the development of underwater acoustical devices. He holds more than 100 U.S. patents.

**O. H. Schade, Sr.**, is the recipient of the IEEE Vladimir K. Zworykin Award, presented by the Institute of Electrical and Electronics Engineers "for broad technical contributions to the electronics and optics of television." Dr. Schade is associated with the RCA Tube Department, Harrison, NJ, where he specializes in television circuits, camera tubes, picture tubes and the analysis of television. He has received many honors and awards, among them the Progress Medal Award and the David Sarnoff Gold Medal Award presented by SMPTE. He is the author of a number of technical papers. Among papers by Dr. Schade which have appeared in the *Journal* is "An Evaluation of Photographic Image Quality and Resolving Power" in the February 1964 issue.

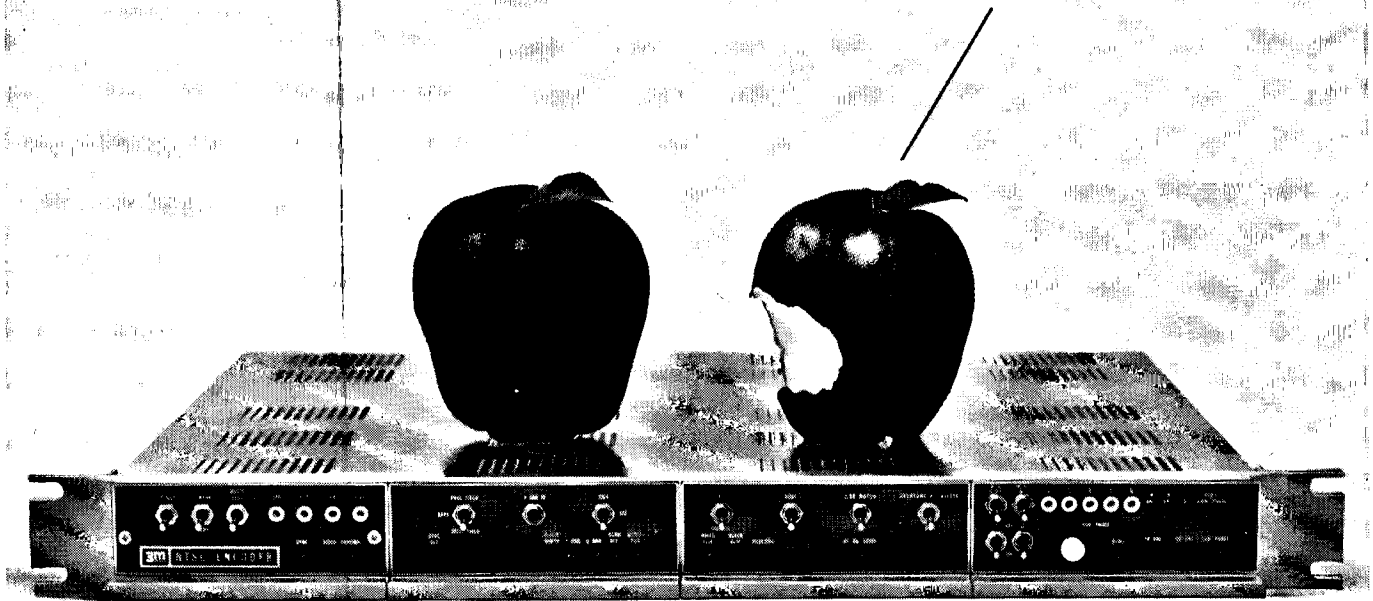
**Robert J. Nissen** has been appointed Director of Systems and Equipment Engineering for Reeves/Actron, 565 Fifth Ave., New York, NY 10017, it was announced by Bruce R. Lang, President of Reeves Production Services. Also announced was the appointment of E. Grey Hodges as Reeves/Actron Senior Vice-President and Chief Executive Officer and John H. Barwick has been appointed Senior Vice-President, Marketing. Mr. Hodges has been with The Reeves organization since 1966 and Mr. Barwick has been with Reeves since 1968. Mr. Nissen was formerly General Manager of Rosner Television Systems. He has designed closed-circuit TV systems for Merrill Lynch, Ford Foundation, Waldorf Astoria, State University of New York and Foote Cone Belding, among others.

**Ray Engel**, a student of Cinema at the University of Southern California, has announced that he has been drafted and is presently Pvt. Ray Engel S-29154, Hqrs. Co., ISG-USACDCEC, Fort Ord, CA 93941. He is presently working as a Television and Motion Picture Production Specialist in Combat Developments Command Experimentation Command, a unit which coordinates experiments which provide a realistic simulation of future combat.

**M. M. Rand** has been appointed Vice-President, Marketing, for the newly formed Ferroalloys Division of Union Carbide Corp. Robert G. Russel succeeds Mr. Rand as Director of Marketing for Union Carbide's Carbon Products Division.

**Vic Armstrong** has been appointed Supervisor of the Motion Picture Laboratory in the Motion Picture Section of the Prints

IT ALWAYS SEEMS THAT 3M PROVIDES  
A COUPLE OF FEATURES  
THAT OTHER PRODUCTS DON'T



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Another unique fact is that the 3M Color Encoder considers smaller, lower cost cameras as well as the big expensive ones. A method of input clamping is used on video signals that eliminates low frequency hum and noise and other unwanted effects on the matrix. If you have access to an SMPTE color test film (hand test over colored bolts of cloth) you can determine whether your camera needs clamping. If it does, you're in clover with this 3M Encoder.

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Overall, you'll find that the 3M Brand Color Encoder is equal or superior to anything on the market yet costs somewhat less. Could we send a brochure?

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and Photographs Division of the Library of Congress. The laboratory, a new facility now under construction in the cellar of the Main Building of the Library, will enable printing of shrunken and damaged nitrate original film. Mr. Armstrong will also monitor the processing of newly printed preservation materials by local commercial laboratories. He was formerly Manager of the Photographic Laboratory of the RCA Missile Test Project at Patrick Air Force Base. He has also been associated with Eastman Kodak Co. where he was concerned with the processing and printing of photographic materials and with testing and research. Among other organizations with which he has been associated

are Cinerama, Arizona Color Film Processing and Consolidated Film Industries. He is a Fellow of the Society and most recently served as Program Chairman for the Society's 105th Technical Conference in Miami Beach.

Raymond C. Carnahan, Jr., has been appointed to the post of Plant Controller for the new EVR processing facility in Rockleigh, NJ, it was announced by Herbert W. Morreall, Vice-President, Operations, CBS Electronic Video Recording Division. In another release, it was announced that Richard Landis Murphy has been appointed Northeast District Sales Manager for CBS Electronic Video Recording.

Herbert Hall has been named President and Chief Executive Officer for Jam Handy Productions, a division of Tele-Tape Productions Corp., Chicago. Fred England, Vice-President of Finance for Jam Handy has been given the additional post of Controller for Tele-Tape.

Sidney P. Solow, President of Consolidated Film Industries, has announced the names of four CFI employees who have completed 25 years at the laboratory. They are: Edward Briggs, Color Timer; Carl Hauge, Quality Control Engineer; Joseph Lee, 35mm Color Production Office; and Dale Tote, Manager of the Title and Optical Department.

F. J. Mellberg has been appointed Vice-President of Engineering for FJW Industries, Inc., of Mt. Prospect, IL. He was formerly Engineering and Marketing Manager of Varo Optical Inc., of Mt. Prospect. Varo Optical was recently acquired by FJW Industries and is now operated as a subsidiary. It will continue the manufacture of optical equipment, infrared devices and electrooptical evaluation and testing equipment.

George Bova has joined the staff of the Motion Picture Division of Dominion-Wide Photographs Ltd., 329 Churchill Ave., Ottawa 3, Ont., Can., as head of the new department of Marketing and Promotion. Mr. Bova began his career at the National Film Board of Canada in 1945. He was Audio-Visual Consultant to Expo 67 and prior to joining Dominion-Wide he was Liaison Officer with the Government Photo Center.

Eugene R. Hill, Director of Engineering, has been elected a Vice-President of Kaiser Broadcasting Corp., 300 Lakeside Dr., Oakland, CA 94604. He joined Kaiser in 1964 as Chief Engineer of WKBD-TV, Detroit, Kaiser's first UHF station and the first of nine TV and radio stations on which he supervised construction during the last five years. He was made Director of Engineering in 1965.

Six appointments to positions in Eastman Kodak Company's International Photographic Division have been announced by Austin J. Gould, Vice-President and General Manager of the division. The appointments are: Anthony Frothingham, Director, Marketing; Walter Schwegler, Manager, Marketing Planning; John E. Riggs, General Manager, Latin American Region; John D. Gillespie, Manager, Marketing and Manufacturing Services, Latin America; Richard A. Esperon, Manager, Administrative Services and L. George Hannye, Assistant Manager, Administrative Services.

Michael Q. Crane has been appointed Production Manager for Movielab-Hollywood, Inc., it was announced by John J. Kowalak, Executive Vice-President in charge of Engineering and Overall Plant Operations for Movielab, Inc. Movielab headquarters are at 165 W. 46 St., New York, NY 10036. Mr. Crane was formerly with the Pathé Laboratory on the West Coast prior to its acquisition by Movielab.



# A STAR IS BORN

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### A Processor for Ektachrome Film

Processes 16mm Color Emulsions at 50 FPM.



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