

Treise Engineering, Inc. Booths 211, 212
1949 First St., San Fernando, Calif.

Exhibiting: Film processing machine; film sprockets; waxer; spools and spool bearings; sound track applicator; air squeezees; heat exchanges.

Personnel: J. Carl Treise, Paul Sparre, Ken Bell.

XeTron Div., Carbons, Inc. Booth 228
400 Myrtle Ave., Boonton, N.J.

Exhibiting: Complete XeTron line of xenon lamphouses and power supplies: JX modification kit to convert Jan projector for xenon operation with 450 watt bulb; CX-9 lamphouse for small format slide, 16mm and 35mm projection; "300" lamphouse with 900 or 1600 watt bulb for 16mm or 35mm projection; "400" lamphouse with 1600-2500 watt bulb for

35mm or 70mm projection; Christie-XeTron power supplies.

Personnel: Frank H. Riffle.

Zoomar, Inc. Booths 116, 117
55 Sea Cliff Ave., Glen Cove, N.Y.

Exhibiting: Zoom lenses for motion picture cameras: Angenieux 16mm and 35mm; and new 24-240mm with viewfinder for Mitchell NC and BNC cameras; remote controlled for Vidicon cameras including new zoom lens with zoom range of 1:20 (15-300mm focal length for Vidicon cameras, and 12-240mm focal length for motion picture frame). Electric zoom drives for 16mm and 35mm motion picture lenses.

Personnel: Walter Steuer, Claire Redman, Martin Miller.

Education, Industry News

The Inter-Society Color Council will hold its 33rd Annual Meeting May 4-5 at the Statler Hilton Hotel, New York. Committee reports will be made during the first day of the meeting and a symposium on the general subject of Color in Education has been arranged for the second day by the Council President, William J. Kiernan. Symposium moderator will be F. L. Wurzburg, Jr., Speakers, and their subjects, will be George Kay, Color Education in Art; Samuel Schenberg, Color Education in Science; Randall M. Hanes, Color: A Guide to Basic Facts and Concepts; and Prof. Isay A. Balinkin, Two Worlds of Color — Or One. Further information is available from Ralph M. Evans, Inter-Society Color Council, Eastman Kodak Co., Photographic Technology Div., Bldg. 65, Rochester, N.Y. 14650.

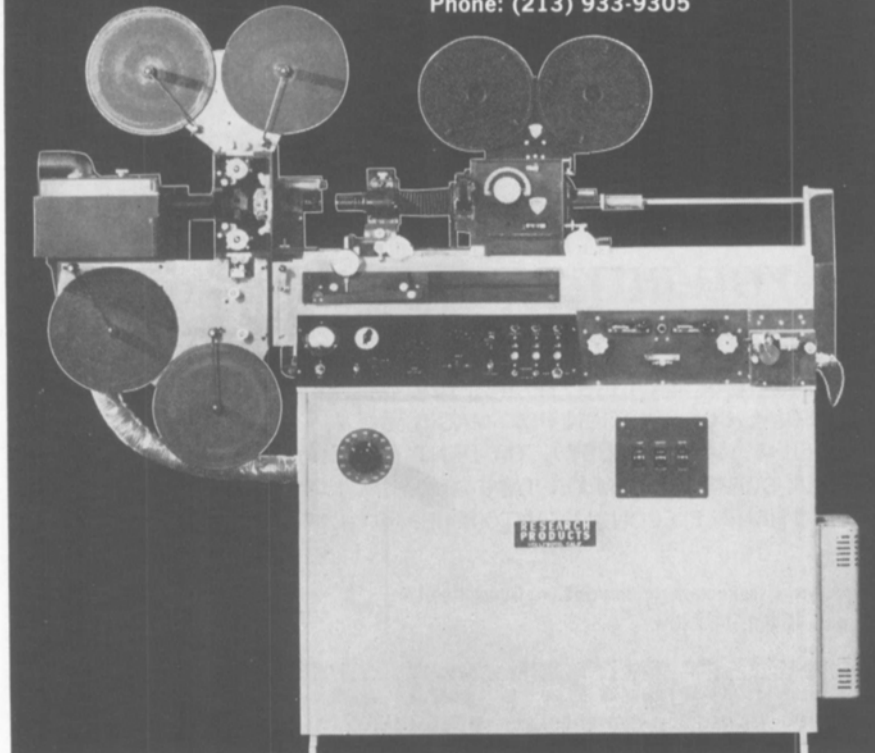
The 1964 IEEE International Convention will be held March 23-26 at the Hilton Hotel and the Coliseum in New York. Theme of the Convention will be "A Glimpse of the Future." An attendance of more than 75,000 engineers and scientists from 40 countries is expected. An total of 320 papers covering latest developments in every area of electrical and electronics engineering is scheduled for the technical program, which includes 64 technical sessions. A high point of the program will be a special evening symposium on "Modular Magic" to be held March 24. A panel of outstanding authorities, moderated by Patrick Haggerty, President of Texas Instruments, Inc., will discuss the impact of processes and techniques for fabricating microelectronic integrated circuits. Chairman of the General Committee is G. W. Bailey. Technical Program Committee Chairman is Ferdinand Hamburger, Jr. Information about the IEEE Convention is available from The Institute of Electrical and Electronics Engineers, Inc., Box A, Lenox Hill Station, New York 21, N.Y.

The First International Conference of Women Engineers and Scientists will be held June 15-21 in New York. It is sponsored by the Society of Women Engineers and the theme will be "Focus for

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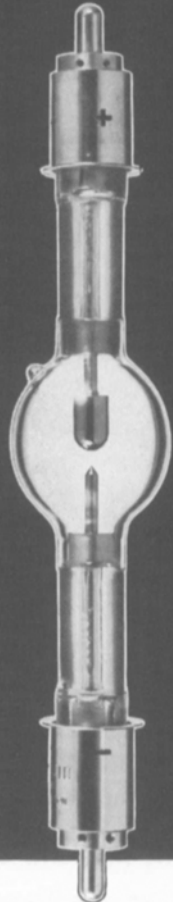


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the Future—Developing Engineering and Scientific Talent.” Director of the Conference is Dr. Beatrice A. Hicks, President and Director of Engineering, Newark Controls Co. Information about the Conference is available from Elsie Eaves, Public Relations Chairman, 18 Third Ave., Port Washington, N.Y. 11050.

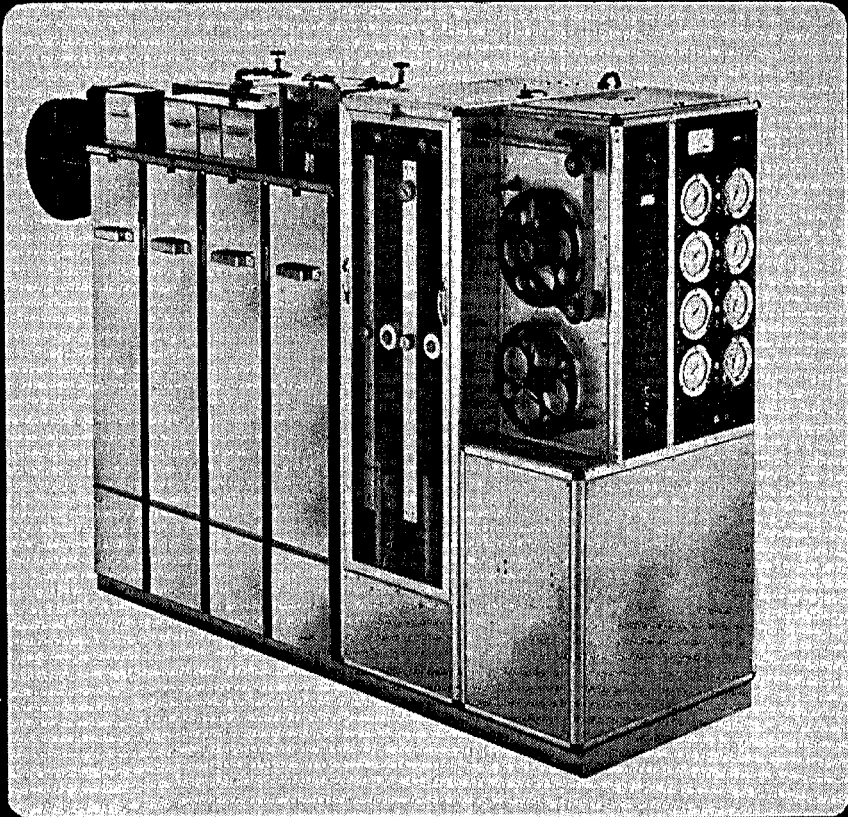
The 1963 Science Technology and General Dictionary Catalog is published by Associated Technical Services, Inc. (A.T.S.). The catalog serves as a reference to and source of hundreds of currently available technical dictionaries in 35 languages from all over the world. English editions of 23 outstanding Russian, Hungarian, and Chinese books in bio-sciences, engineering and chemistry are also listed. The catalog is available from Associated Technical Services, Inc., Dictionary and Book Division, 855 Bloomfield Ave., Glen Ridge, N.J.

Special translating services are also available. Recent emphasis in translating is on papers in Japanese and Russian containing research data on electrophotography (xerography), photography, photochemistry, etc. A.T.S. was established in 1949 by a chemical engineer and a chemist to provide an exclusively technical translation and literature research service. A.T.S. has a specialized technical reference library of several thousand volumes and also maintains close liaison with associates and sources throughout the world for patent and literature searches as well as for procurement of hard-to-get scientific material published abroad.

The Sixth National Electromagnetic Compatibility Symposium sponsored by the Professional Technical Group on Electromagnetic Compatibility of the IEEE will be held June 23–25 in the Los Angeles area. The theme will be Down-to-Earth EMC in the Space Age. Information is available from the Technical Program Chairman, John A. Eckert, Dept. 3441/32, Northrop Norair, 3901 West Broadway, Hawthorne, Calif.

A Department of Space Science and Applied Physics has been established by the Catholic University of America with programs of study leading to post-graduate degrees in the areas of Space Science; Fluid Mechanics and Heat Transfer; Aerospace Engineering; and Applied Physics. The new program is intended to integrate scientific theory and technology. The curricula will balance instruction in science with training in the skills of experimentation and inventive technology. Research conducted under faculty supervision includes work in such areas as plasma behavior in geophysics and space physics; basic problems of blood flow and non-Newtonian fluid mechanics; and radiation heat transfer. Laboratories in Plasma Space Science; Space Propulsion; and Fluid Physics have been established. Further information is available from Dr. C. C. Chang, Head, Department of Space Science and Applied Physics, The Catholic University of America, Washington, D.C. 20017.

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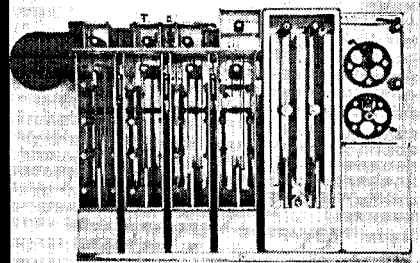
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March 1964 Journal of the SMPTE Volume 73

A Symposium on cineradiography in the medical and biological sciences, organized by the medical group of the Royal Photographic Society of Great Britain, will be held March 18, with facilities and hospitality provided by the CIBA Foundation. About 25 speakers will discuss problems associated with cineradiography. There will be representatives from the Faculty of Radiology, British Institute of Radiology, Society of Radiographers, Institute of British Photographers medical group, and the Royal Photographic Society of Great Britain medical group. This Symposium is an exploratory one, and if the findings warrant it an international symposium will be considered. A technical report covering papers and discussions will be issued within one month of the Symposium. Copies of the report will be available upon request from: The Hon. Publicity Officer, Medical Group of the Royal Photographic Society, 16 Princes Gate, London, S.W.7, England.

Also scheduled is the annual Exhibition of the Medical Group of the Royal Photographic Society of Great Britain which will open March 3 at Tavistock House, Tavistock Square, London, W.C.1. The exhibit will be on display to April 20.

The British Film Producers Association, 49 Mount St., London, W.1., England, has issued a report on the National Productivity Year Conference held during November, 1963, in Eastbourne. Among conclusions drawn from papers and discussions as set forth in the report are in-

cluded such statements as: "The Film Production Industry is not a production-line factor . . . Nevertheless, work study as an aid to productivity appeared to be as important in this (cinema) industry as in any other industry . . . The sales side must be of sufficient strength and attraction to ensure an adequate financial return to the production side . . . There is a need in this industry for the removal or relaxation of trade union restrictive practices, which are related to production techniques and equipment of many years ago . . ."

Harry F. Olson, Director of the Acoustical and Electromechanical Research Laboratory of the RCA Laboratories, is the recipient of the John Ericsson Medal of the American Society of Swedish Engineers. It was presented to him at the annual banquet, held February 8, in New York. The medal is presented every second year and alternately to a Swedish citizen or an American citizen of Swedish extraction in recognition of outstanding and valuable contributions in the field of acoustics.

Dr. Olson is a Fellow of the SMPTE and the recipient (1955) of the Samuel L. Warner Memorial Award. On that occasion he was cited for outstanding achievements in "audio engineering, including his work on the velocity microphone, the ducone speaker for high-fidelity sound reproduction, and for his contributions to the development and improvement of phonograph pickup and recording equipment, underwater sound equipment, and

sound motion-picture and public address systems." Among other honors he has been awarded the Modern Pioneer Award of the National Association of Manufacturers (1940); John H. Potts Medal of the Audio Engineering Society (1952); John Scott Medal of the City of Philadelphia (1956); and Achievement Award of the IRE Professional Group on Audio (1956).

Dr. Olson holds more than 90 U.S. Patents on devices and systems in the acoustical field. He is the author of three books, *Acoustical Engineering*, *Dynamical Analogies*, and *Musical Engineering*, as well as numerous papers on scientific and technical subjects, among them (with co-author John Preston), "The Electrostatic Uniangular Microphone," in the November 1958 issue of the *Journal*.

Norwood L. Simmons has been appointed General Manager of the West Coast Division of Eastman Kodak Company's Motion-Picture Products Sales Department. He succeeds John L. Courcier, a veteran of 45 years in the film industry, who died January 6. He joined Kodak in 1937 at the Kodak Park Works in Rochester, N.Y. For the next four years he was associated with the company's film manufacturing operations. In 1941 he moved to the West Coast Division in Hollywood. In 1954 he was appointed Chief Engineer of the Division; in 1958 he was appointed Assistant Manager and in 1960 he became Manager. In 1963 he was appointed Manager of Engineering

an SMPTE publication

CONTROL TECHNIQUES IN FILM PROCESSING

Prepared by a Special Subcommittee of the Laboratory Practice Committee of the Society of Motion Picture and Television Engineers

WALTER I. KISNER
Subcommittee Chairman

Foreword by **E. H. REICHARD**
Chairman, Laboratory Practice Committee

CHAPTERS

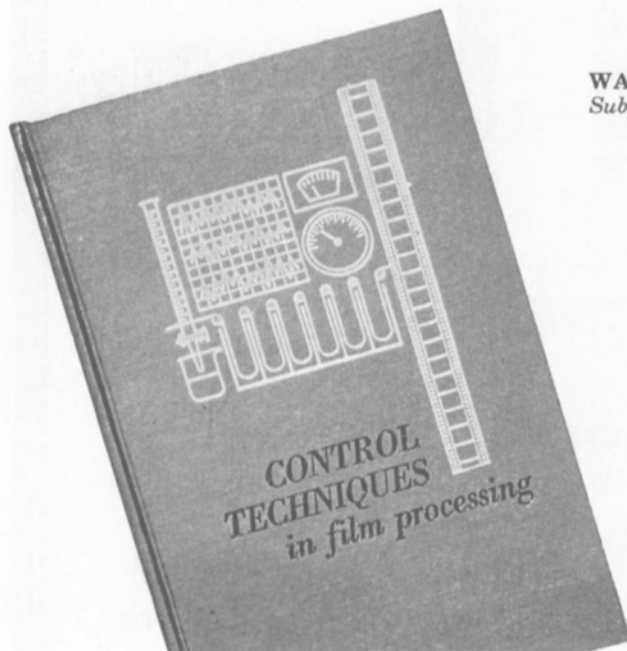
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| 1. Introduction | 6. Control Strips and Sensitometric Curves |
| 2. General Principles | 7. Sensitometric Control of a Standardized Process |
| 3. General Aspects of Motion-Picture Film Processing | 8. Chemistry of Film Processing |
| 4. Mechanical Evaluation and Control | 9. Chemical Analysis and Control |
| 5. Instruments for Photographic Control | 10. Economic Considerations in Establishing a Process Control System |

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Services and his appointment to the post of General Manager was made effective January 17. Vaughn C. Shaner succeeds him as Manager of Engineering Service, West Coast Division.

Sidney Dimond has resigned his professorship in the Boston University School of Public Relations and Communications to devote his time to Creative Associates, Inc., 176 Newbury St., Boston, a firm he founded 11 years ago to produce historical programs, documentaries and educational programs described as "sounds on tape and record." Mr. Dimond is especially interested in educational programs for highway safety. In 1956 he produced

This Is Impact, a series of recordings containing comments made by accident victims and relatives of highways fatalities, of excuses offered by apprehended speeders, and of sounds such as the clang of a jail door shutting behind a drunken driver. The recording won the National Headliner's Award as the best American radio series of 1958 and the National Safety Council's Public Interest Award. He also did a tape called *How to Stay on the Highways* which is used widely in high schools throughout the United States.

Harlan L. Graham, Jr., has been appointed General Manager of the Du Pont Photo Products Dept., Wilmington, Del.

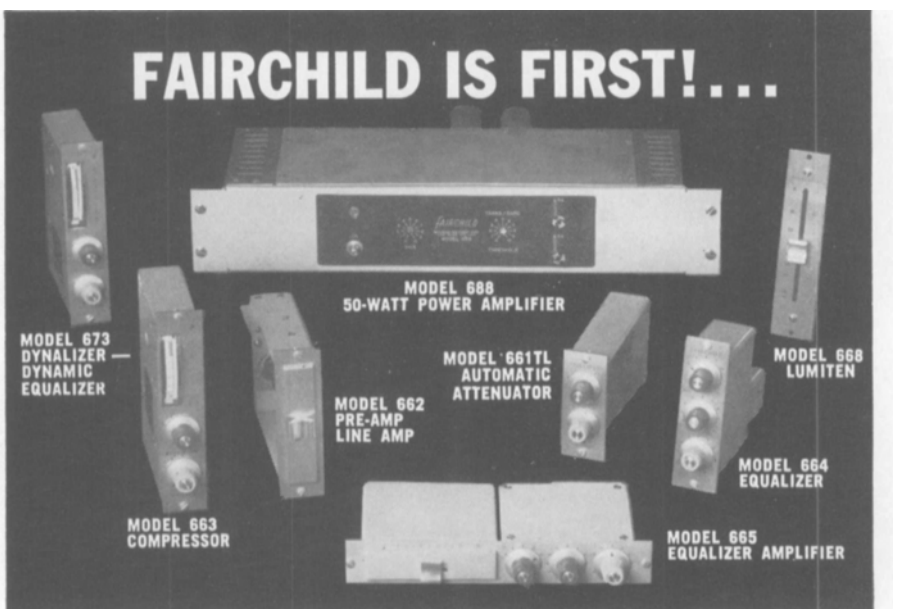
He succeeds George H. Loving, who was killed in the airplane disaster near Elkton, Md., December 8 (*Journal*, Jan., 1964, p. 60). Mr. Graham, who began his career in Du Pont's Parlin, N.J., plant about 25 years ago, transferred to the company's Wilmington headquarters in 1950 as Assistant to the Director of Production, and then became Assistant Manager at the Rochester, N.Y., plant and later at Parlin. While at Parlin, he was active in the establishment of the "Cronar" polyester film plant. He was appointed Director of Sales in 1958 and about a year ago he was made Assistant General Manager of the Photo Products Dept. He is succeeded in that post by Joseph A. Dallas. Mr. Dallas has been Director of Manufacture for the Du Pont Explosives Dept. since 1960, and has held other important production and sales positions during a 30-year career with the company.

W. E. Pohl has been appointed a Vice-President of Technicolor Corp. A recipient of four Academy Award Scientific Achievement plaques, Mr. Pohl has been importantly associated with Technicolor's technical activities in many capacities for 34 years. In this new capacity he will continue the duties and responsibilities of Technical Director of the Motion Picture Division and, in addition, will assume the direction of the Corporation's Systems and Procedures program. The author of a number of technical papers, two that have appeared recently in the *Journal* are "The Manufacture of 8mm Prints at Technicolor," pp. 606-607, Aug., 1961; and "Large Area Negative Printing," pp. 72-73, Feb., 1959.

Gale Livingston has been appointed President of the Westrex Division of Litton Industries. He was formerly Vice-President and General Manager of the Westrex International Division. He will maintain headquarters in Hollywood. Mr. Livingston has been with Litton Industries since March, 1962. He has held various management and executive positions and for many years was Executive Vice-President of an international pharmaceutical firm.

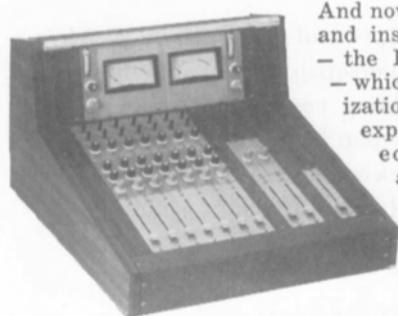
Harold R. Day has been appointed manager of the Thermoplastic Recording Project of General Electric Co., Schenectady, N.Y. Dr. Day joined General Electric Co. in 1952 and was with the Research Laboratory until early in 1963 when he transferred to Syracuse as Technical Director — Deformable Films for Defense Systems Department. Later in the year he was named Consultant in Thermoplastic Recording for the Electronics Laboratory.

John A. Leermakers has been elected a Vice-President of Eastman Kodak Co. and has been appointed Director of Kodak Research Laboratories. Dr. Leermakers joined the Research Laboratories in Rochester in 1934 after two years at Harvard University as National Research Fellow. From 1934 until 1938 he did research on cellulose acetate dyes, optical sensitizing, the properties of photographic gelatin, and film emulsions. He was appointed supervisor of experimental emulsion making in 1938 and in 1944 he became



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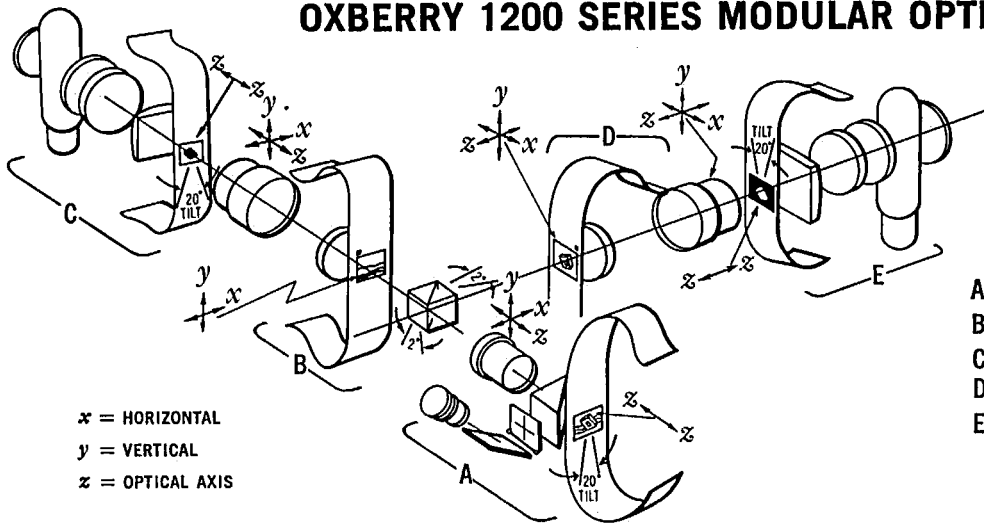


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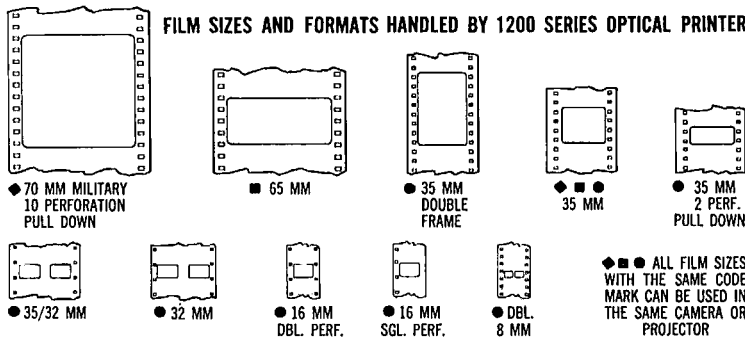
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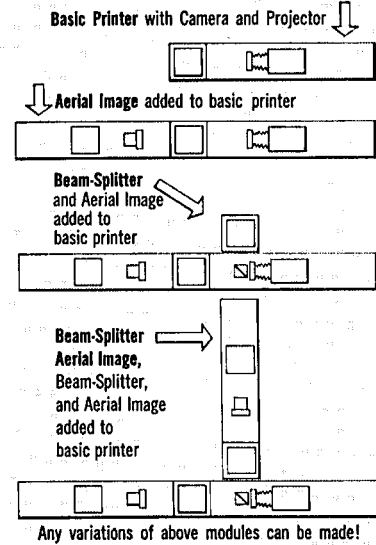
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- D. Beam-Splitter Projector
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March 1964 Journal of the SMPTE Volume 73

technical assistant to the Director of the Research Laboratories.

Edwin W. Templin has been appointed Chief Engineer of D. B. Milliken Co. Formerly with Westrex Co. as Chief Engineer, he has been responsible for the design, development, production and application of studio and scientific recording. Much of his recent work has been in miniaturized systems for aerospace applications. In his new post he will head a rapidly expanding engineering program which includes the doubling of the firm's engineering facilities and the tripling of research and development facilities.

James D. McLean, who recently resigned as President and Chairman of the Board of Highway Trailer Industries, Inc., of Chicago, has formed a development firm dealing with general management, product development, marketing and engineering problems in the electronics, aerospace and transportation industries with offices at 760 N. La Cienega Blvd., Los Angeles 69. Mr. McLean has served as President of General Dynamics/Electronics, President of Hoffman Laboratories, Inc., and Vice-President and General Manager of Philco's Government and Industrial Division. He is presently a Director of Struthers Scientific and International Corp. of New York.

Joseph W. Alinsky has been appointed to the newly created post of Manager of Engineering, Video Products, for the GPL Division, General Precision, Inc., Pleasantville, N.Y. He was formerly Manager of Engineering at Thompson Ramo Wooldrige, Dage Division. In his new post Mr. Alinsky will have the responsibility in the technical area of adding to the GPL Precision television line, expanding video and video-related controls for industry, and investigating aerospace television designs using microelectronic techniques.

A. C. Keller, Director, Switching Apparatus Laboratory at Bell Telephone Laboratories in New York, has been elected to the Board of Directors of the Waukesha Motor Co., Waukesha, Wis.

Robert B. Lindemeyer has been appointed Director of Technical Services for Metro-Kalvar, Inc., 550 Fifth Ave., New York. He has been with the firm since September, 1963, and prior to that he was with American Machine and Foundry Co., of Santa Barbara, Calif., where he held a managerial post. He was graduated in 1958 from Iowa State University, where he had held the Joseph Weed Television Scholarship and where he had worked in various capacities with the University's Film Production Unit. Following graduation he taught a course in "Films for TV" at American University in Washington, D.C. He then served as an officer in the U.S. Navy attached to the U.S. Naval Photographic Center in Washington, D.C., where he was first a producer/director and later was appointed Officer-in-Charge of the Television Kinescope Films Production Facility of the Air Force Systems Command, a position he held until 1962.

Two new appointments have been announced by Photronics Corp., 36-17 Prince St., Flushing 54, N.Y. Richard A. Hayes has been appointed Vice-President of Engineering and H. B. Voorhest of Anaheim, Calif., has been appointed Applications Sales Engineer for the West Coast. Mr. Hayes is a recognized authority in the field of electrooptics. He was formerly with General Dynamics, Fort Worth. Mr. Voorhest was formerly with Perkin-Elmer Corp.

William B. Allen has been appointed Manager of Engineering of the Video and Instrumentation Div. of Ampex Corp., 401 Broadway, Redwood City, Calif. He was formerly Manager of the Electronics Laboratory, Ballistic Missile Div. of Hughes Aircraft Co., Los Angeles. In his new post he is responsible for the development of Ampex magnetic recording equipment for television broadcasting, space exploration, defense, industry and medicine.

N. Donald Ringsred has been elected President of the Alexander Film Co., Colorado Springs, Colo. He has been associated with the firm since 1945. After 12 years in the Colorado Springs office, he moved to Detroit as a sales representative for the firm. For the present he will maintain headquarters in the firm's new

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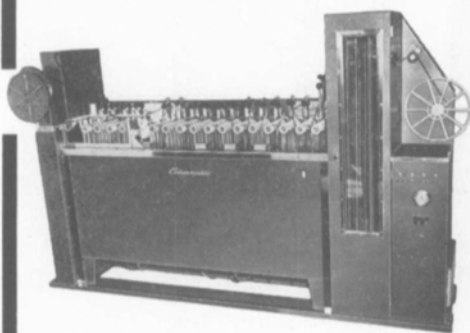
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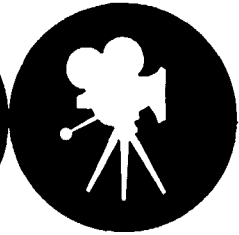
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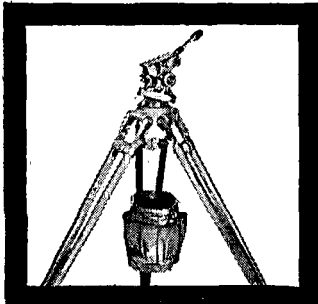
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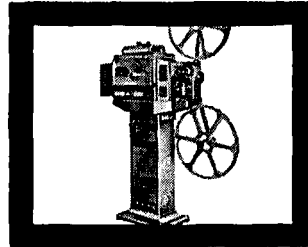
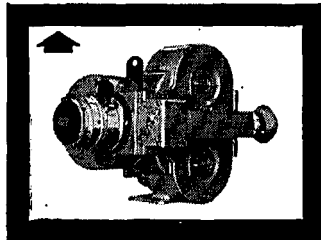
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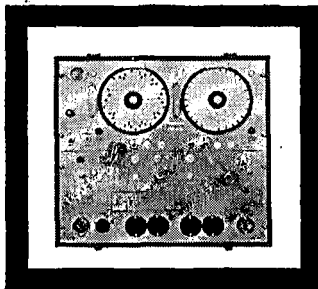
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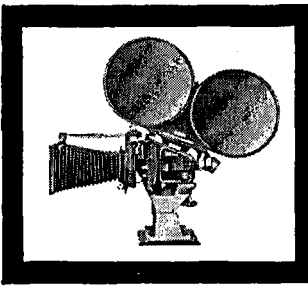
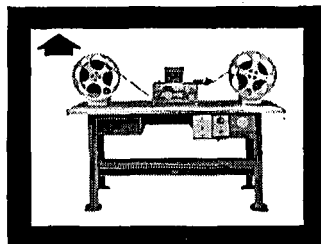
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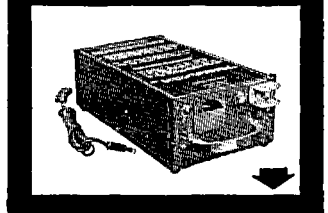
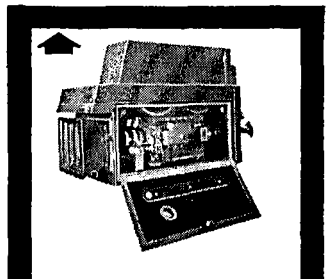
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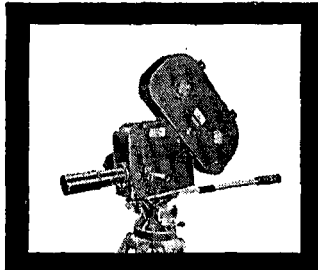
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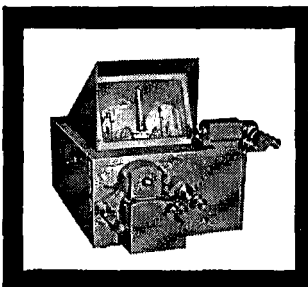
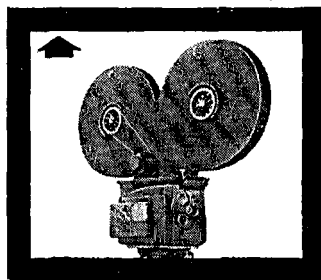


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offices in Maple Office Center, Birmingham, Mich. The announcement also stated that the firm planned an expansion of its sales force for added emphasis on such services as the firm's film distribution center and the laboratory.

Three new staff appointments have been announced by Thomas H. Fraser, President of Fraser Productions, San Francisco. Hubert Salisbury has been appointed Manager of the Cinematography Department and Ray Nolan has been appointed Manager of the Editing Department. Bettie Griswold has been appointed Traf-

fic Manager. Mr. Salisbury was formerly associated with the film industry in Great Britain and Mr. Nolan was formerly with the National Film Board of Canada as director, editor and cameraman on various documentary film projects.

James L. Caddigan has been appointed Director of Broadcast Services of the Weather Corp. of America, 611 Olive St., St. Louis, Mo. 63101. Mr. Caddigan's previous posts have included Director of Programming and Production of Du Mont television network and Vice-President of Odyssey Productions. In his present post

he will be in charge of liaison between the broadcasting clients and the firm's professional meteorologists.

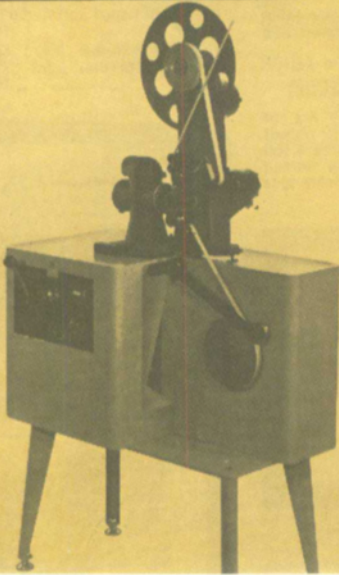
Film bookings by the American Medical Association during 1963 showed a gain of 16.8% over the previous year, according to a recent report from Ralph Creer, Director of Medical Motion Pictures and Television. This is the 11th consecutive year that the AMA film library has reported increased use of its 400 films. Greatest increase in film bookings was to nursing schools and the next greatest increase was to para-medical schools. Increases in bookings were also reported by medical schools and civilian hospitals.

Films made available without charge by General Motors Corp. to schools, civic groups, churches, service clubs, youth groups and other organizations are listed in a catalog available from General Motors Corp., 1775 Broadway, New York 19. The 1964 film catalog lists 48 16mm sound films which take the audience behind the scenes in industry and cover a variety of other subjects ranging from safety and driver education to sports and the fundamentals of science and mechanics. GM films were shown before 460,000 audiences last year, totaling more than 19 million persons. In addition there were 143 television showings.

The eighth Tiros satellite, launched in December, is equipped with a specially designed television camera to take pictures of cloud cover, storms, and other meteorological events which will be transmitted back to ground stations. The pictures will be recorded by facsimile rather than on film. Although not of the same quality as the film pictures they are expected to provide as much information as is needed for meteorological analysis. The new TV system (known as APT (Automatic Picture Transmission)) has been installed in the new Tiros and APT ground stations have been established at some 50 locations throughout the world, including NASA stations at Washington, D.C.; Wallops Island, Va.; and Fairbanks, Alaska. The new Tiros and its seven predecessors were designed and built by the Radio Corp. of America under the technical direction of the Goddard Space Flight Center of the National Aeronautics and Space Administration. Tiros satellites have been described in papers in the *Journal*, including "A Narrow-Bandwidth Video-Tape Recorder for Use in a Satellite," by Joseph A. Zenel (pp. 818-820, Nov., 1960); "Interpretation of Cloud Pictures From the Tiros Meteorological Satellite," by John H. Conover (pp. 21-25, Jan., 1962); and "Design of Satellite Tape Recorders After Tiros I," by A. D. Burt, S. P. Clurmana and T. T. Wu (pp. 787-791, Oct., 1963).

Relay II, second in the Relay series of experimental communications satellites designed and built by Radio Corp. of America's Astro-Electronics Division, is a low-altitude active communications satellite, basically the same as its predecessor, Relay I. Certain changes have been incorporated

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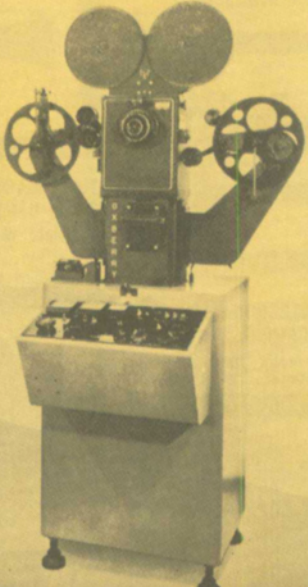
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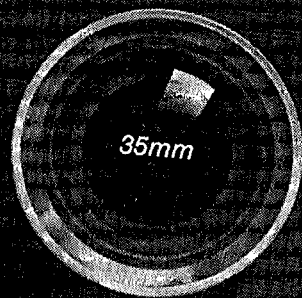
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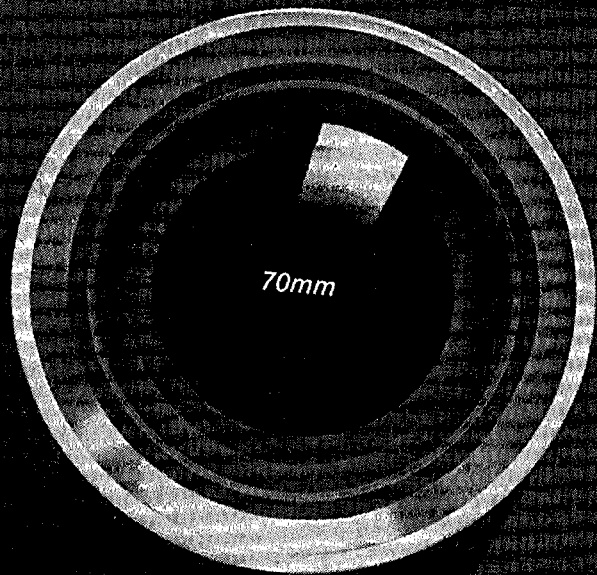
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March 1964 Journal of the SMPTE Volume 73

with the objective of determining the potential longevity of a communications satellite of this type. Changes include an improved solar array; elimination of timer; unpressurized traveling wave tube; improved power circuitry; and desensitized command circuitry.

The 25th anniversary of the introduction of the Arriflex-35 has been recognized by Arriflex Corp. of America, 257 Park Ave. South, New York, N.Y. 10010, by the announcement of a "trade-in celebration." According to the announcement, "any old Arriflex-35" will be worth a "sizable amount of cash," if traded in on a new

model. The announcement noted that although there have been numerous important improvements, the exterior design of the camera has remained basically unchanged. As a feature of the anniversary celebration, the person trading in an Arriflex-35 will receive a credit of the original purchase price up to \$2,500 on a new model.

Photographic services for the National Aeronautics and Space Administration and Lunar Landing Program will be provided by the Research and Development Division of Technicolor, according to a recent announcement. The firm will provide

complete management services for the installation, operation and management of a photographic laboratory to be constructed at the new Launch Operation Center at Merritt Island, Fla.

The Technicolor 8mm Instant Movie Projector will be distributed in Japan by Yashica, Inc., according to an agreement announced by Technicolor Corp. The Japanese firm specializes in the manufacture and distribution of photographic equipment.

Potter's Photographic Applications Co., Mineola, N.Y., has been appointed distributor in the New York Metropolitan area for the Amphicon 190 and 200 television projectors. The projectors, which feature big-screen projection (up to 8 ft wide with the 190 model and up to 15 ft wide with the 200 model), are manufactured by Dalto Electronics Corp., Norwood, N.J. An earlier model, the Amphicon 108, is described in the February, 1961, issue of the *Journal* (p. 139).

The 3M Company has started production at its new magnetic products plant in Camarillo, Calif., according to a recent announcement. The plant covers 125,000 sq ft and is equipped to produce 3M's entire line of audible range, instrumentation and video tapes. The new plant has facilities capable of increasing total production of the division by nearly 50%, the announcement stated.

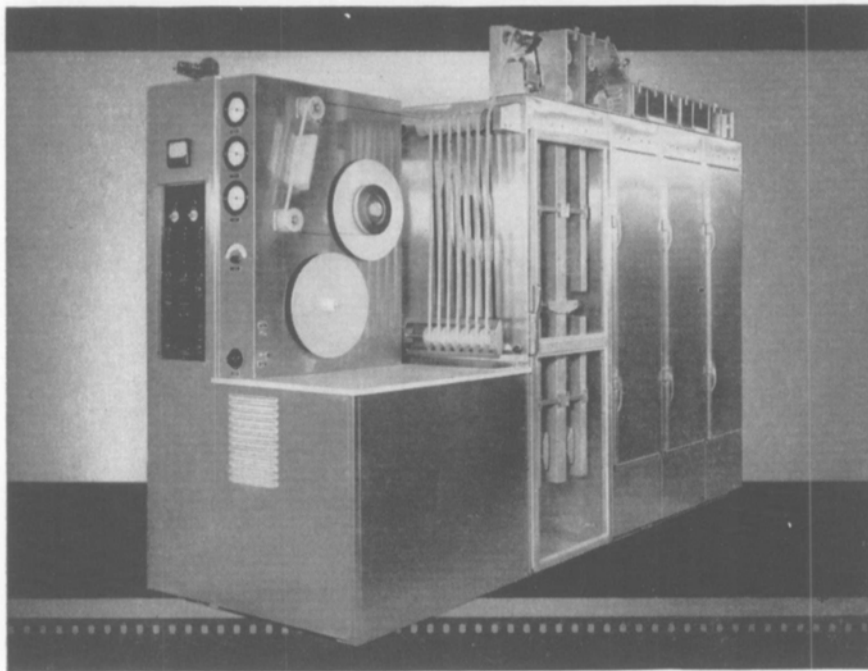
Red Lake Laboratories, manufacturer of the Hycam High-Speed Motion Picture Camera and other photoinstrumentation equipment, has moved its office and factory from Sunnyvale to 2971 Corvin Dr., Santa Clara, Calif. The new quarters will provide a substantial increase in engineering space, the announcement stated.

Andre Debric Mfg. Corp., subsidiary of Belock Instrument Corp., 14-29 112 St., College Point, N.Y. 11356, has been appointed exclusive U.S. distributor for Sonocolor of Paris, which manufactures a magnetic striping machine for all sizes of motion-picture film. A recent adaptation of this machine is capable of applying four magnetic stripes simultaneously on the 35/8mm-5R film stock used in the Debric "quad" printer (*Journal*, p. 917, Nov., 1963).

Evershed Power-Optics Ltd., 214 Harlequin Ave., Brentwood, Middlesex, England, has been appointed exclusive agent in the United Kingdom for equipments manufactured in the United States by Bach Auricon, Inc., according to a recent announcement. It was also announced that existing service facilities for Auricon equipment will be augmented at the firm's new factory in Brentwood.

Clifton Precision Products Co., Clifton Heights, Pa., manufacturers of flight control synchronizers, computing resolvers, synchros and subminiature servo motors, has been acquired by Litton Industries, 336 N. Foothill Rd., Beverly Hills, Calif.

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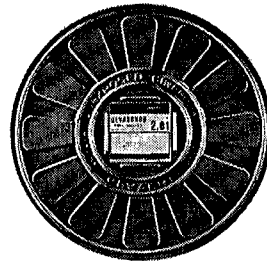
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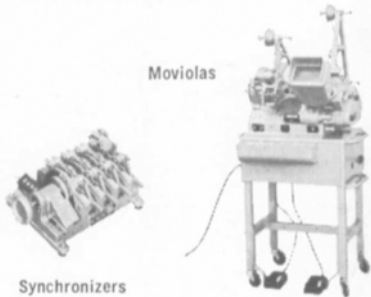
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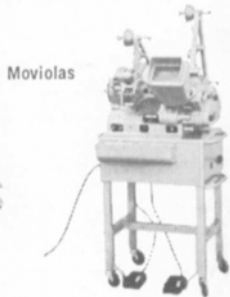
GEVAERT PHOTO-PRODUCTEN N.V., 27 Septestraat, Mortsel (Antwerp) Belgium
 In the U.S.: THE GEVAERT COMPANY OF AMERICA, INC., 321 West 54 Street, New York 19
 In Canada : PHOTO IMPORTING AGENCIES LTD., 345 Adelaide Street, Toronto 2B, Ontario



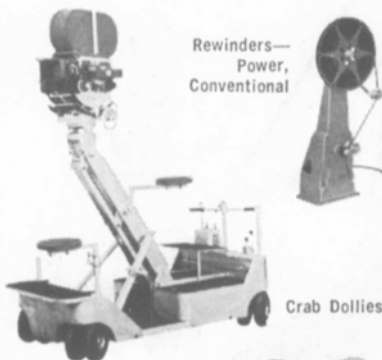
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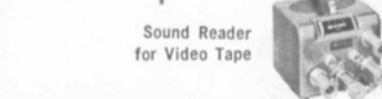
Crab Dollies



70 mm Viewer for Type I Film



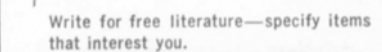
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Also announced was the acquisition of Advance Data Systems, a firm which is developing revenue control systems for the transportation, entertainment and distribution industries. Clifton Precision Products will become a division of Litton's Components Group; Advance Data Systems will become a division of Litton's Business Machines Group.

Traid Corp., 17136 Ventura Blvd., Encino, Calif., has been appointed national distributor for Vanguard Motion Analyzers (*Journal*, p. 743, Sept., 1962). Vanguard Analyzers are used in medical research, reduction of oscilloscope data, evaluation of flame, missiles, high-speed mechanisms, vibration, shock and similar work requiring analysis of film.

Zoomar International Inc., Glen Cove, N.Y., has announced an arrangement made with Bell & Howell Co. for the sale of Angenieux lenses throughout the United States for the Bell & Howell lines of 16mm motion-picture cameras. The lenses include the 12-120 zoom lens, *f*/2.2, with reflex viewfinder as well as fixed focus lenses in "C" mount for the model 70 series cameras.

Purchase of RCA studio equipment at a price of more than \$1½ million has been announced by Subscription Television, Inc. The firm is currently establishing a home cable television service in the Los Angeles and San Francisco metropolitan areas. The equipment, to be installed in its studios, is capable of transmitting live, tape or film programming. Transmission, utilizing the new equipment, will be directly to the homes of subscribers with signals carried through cables installed by local telephone companies. Included in the purchase are four TR-22 transistorized TV tape recorders; six TK-26 vidicon color-film camera chains with twelve 35mm and two 16mm projectors and two TS-40, 3-channel video and audio master control switching consoles. All equipment has full color capability.

A display of art, photography, and animation art from the studios of Reid H. Ray Film Industries, 2269 Ford Parkway, Saint Paul 16, Minn., was exhibited during February at the College of St. Thomas. The display included 16 black-and-white photographic enlargements, 14 color transparencies, 30 color art lay-outs, and 8 black-and-white motion-picture art samples. Featured in the display were 8 photo-deviations, a recent innovation in photographic processes.

Association Films, Inc., 347 Madison Ave., New York, N.Y. 10017, has acquired an operating interest in Industrial Film Maintenance, a Canadian film service organization located at 135 Peter St., Toronto, Ont., according to an announcement issued jointly by the firms. The new firm will be called Association-Industrial Films. Association Films was founded in 1911 and is one of the largest nontheatrical and TV distributors in the world, the announcement stated. Industrial Film Maintenance is engaged in television commercial film procurement, distribution, syndication, film

editing, sponsored motion-picture distribution and TV monitoring services.

Technicolor Corp. has announced purchase of 36,000 sq ft of property adjacent to the Technicolor motion picture plant in Hollywood. The need for additional space is necessitated by continued expansion plans, the announcement stated. The new property will be used mainly for the enlargement of the Engineering Department preparing for the firm's entry into the television processing field.

Four newly appointed distributors for the Technicolor 8mm Instant Movie Projector are Charles Beseler de France, S. A., Paris, for France; Centro Audiovisual, S.A., Madrid, for Spain; Meijlink N.V., Rotterdam, for the Netherlands; and Scan Print AB, Stockholm-Solna, for Sweden, Norway and Finland. Contracts were arranged by Robert Kreiman, General Manager of Technicolor's Commercial and Educational Branch, during a recent European trip.

Mitsui & Co. of Tokyo, Japan, has been appointed exclusive representative in Japan for Prestoseal Manufacturing Corp., 37-12 108 St., Corona 68, N.Y. Prestoseal specializes in the design and manufacture of editing and splicing equipment for motion-picture film, microfilm, magnetic and computer punch tape.

A new audio-visual division, established by Photo-Consultants, 12 E. 37 St., New York, N.Y. 10016, will specialize in the production of films and slidefilms. The new studio and production facilities will be under the direction of Murray Duitz.

The Maier-Hancock Hot Splicer, the professional film splicer distributed by Traid Corp. since 1960, will be sold exclusively through the Maier-Hancock Sales Co., 14106 Ventura Blvd., Sherman Oaks, Calif., a newly formed division of Maier-Hancock Corp., according to a recent announcement. Manager of the new division is Arthur H. Bolt.

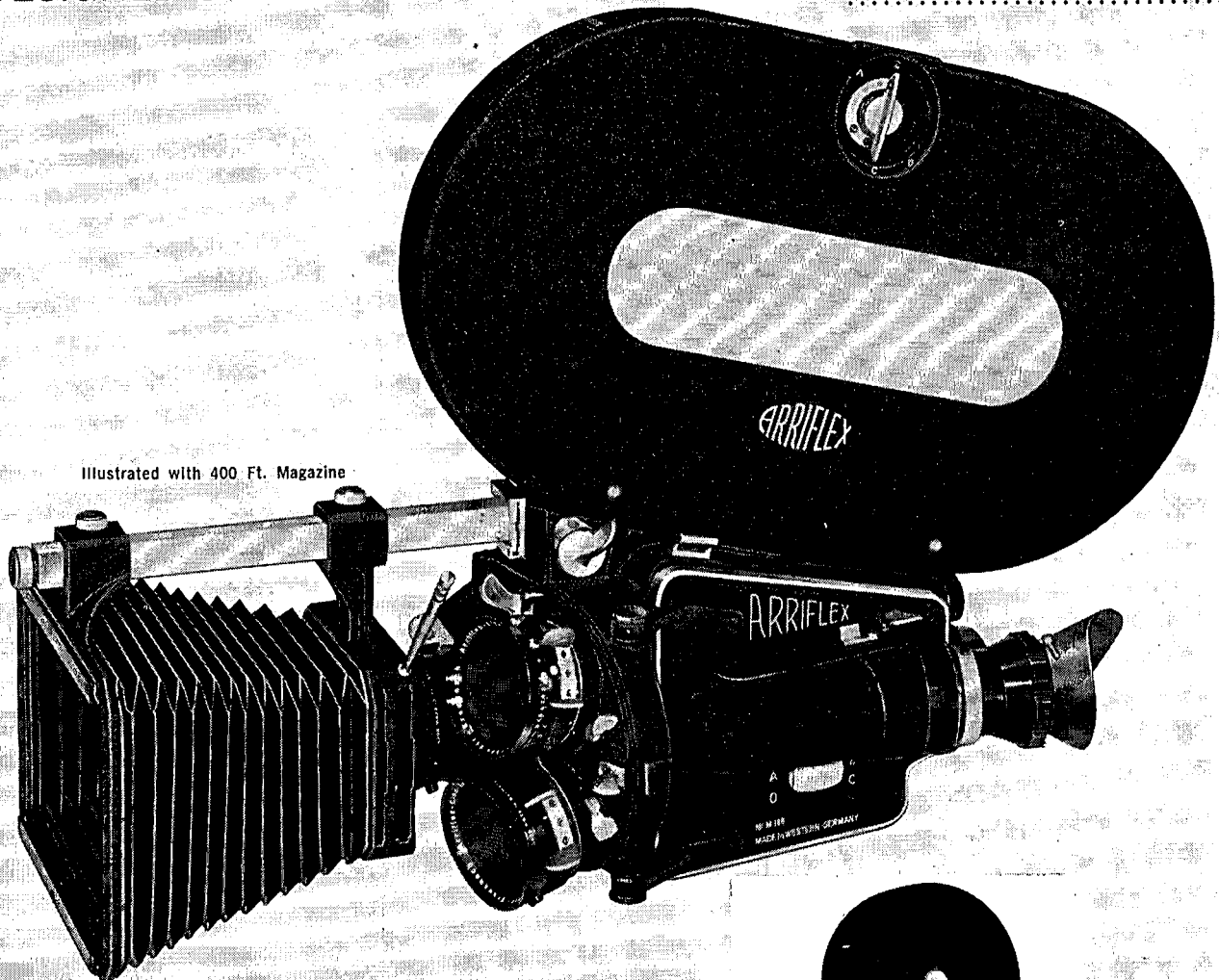
Agfa AG., Leverkusen, Germany, and **Gevaert Photo-Producten N.V.**, Mortsel/Antwerp, Belgium, have announced that the industrial activity of the two firms will be combined in a single economic unit and will include the entire industrial activity in the scientific, technical, commercial and financial field. Since formal mergers across the frontiers are not yet legally possible, the economic unit will be realized through the formation of a new Belgian and a new German operating company. Agfa and Gevaert will each hold 50% of the shares of both operating companies. Activities of the two operating companies will begin July 1. In pursuance of the formation of this unit, Agfa will take over several companies of the German photographic industry affiliated to its parent company Farbenfabriken Bayer AG., Leverkusen, in particular Leonar-Werke AG., Hamburg; Mimosa GmbH, Kiel; Chemische Fabrik Vaihingen/Enz GmbH, Vaihingen/Enz; and also the 50% Bayer subsidiary Perutz-Photowerke GmbH, Munich.

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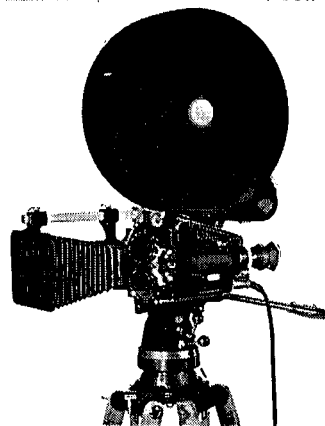
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