



Fred G. Roberts, Jr.

Fred G. Roberts, Jr., President of Traid Corp., Encino, California, passed away on March 28, 1964. Born in Chicago on April 8, 1907, he attended schools in the Chicago area and graduated from Lake Forest College. Following extensive service with Bell & Howell Co. in Chicago he served as an officer in the U.S. Navy from 1941 to 1946.

Following his naval service, Mr. Roberts formed his own firm, Training Aids, Inc.,

in the Los Angeles area. As a special representative for Bell & Howell, Training Aids, Inc. supplied audio-visual equipment to educational institutions and other fields.

In 1950 the name of the firm was changed to Traid Corp., a contraction of "Training Aids," as a result of the company's increasing activity in the field of photographic instrumentation, particularly in the design and manufacture of high-speed intermittent cameras used in drone miss-distance systems. His work in this area continued to increase to the eventual exclusion of audio-visual work, and Traid concentrated exclusively on optical instrumentation systems until the addition of electronic miss-distance systems and a mass market still camera within the past few years. During recent years Traid also served as a representative of other manufacturers in the photo instrumentation field, including Photo-Sonics, Inc.; the Automax Cine-Pulse camera of Neyhart Enterprises; Consolidated Systems Corp.; and Vanguard Instrument Corp.

Those persons who were privileged to have known Fred Roberts will long remember his keen interest and enthusiasm for his chosen field of endeavor, and for his high sense of personal integrity.—*Carlos H. Elmer*

Chairman of the morning session. Papers were presented on "Environmental Requirements for Classroom Television and Audio Communication" by Charles D. Gibson; "Television Origination, Distribution, Display for Classrooms" by Mr. Isberg, Glen Pensinger and Gene Henderson; and "2500-mc Instructional TV Fixed Service" by L. T. Frymire. The afternoon was given over to tours and exhibitors' papers; a meeting of the SMPTE San Francisco Section was held in the evening. Chairman of the meeting, which was open to Conference registrants and exhibitors as well as SMPTE members and guests, was Stewart A. Macondray.

Chairman of the Conference was Ken Winslow of the University of California, Berkeley. Speakers included FCC Commissioner Robert T. Bartley and other well-known authorities in the fields of education, radio and television.

The Communication Arts Dept. of Fordham University, Bronx, N.Y. 10458, has announced courses and conferences in television and motion pictures to be held during the summer session. Courses include Television in the Service of Education; Educational Television Production; ETV Studio Operation; Film Study in the Schools; Introduction to Mass Communications; and Institute and Workshop for the Modern Theater. Five-day conferences will be held on Educational Television and Film Study in the Schools; the latter will be conducted in cooperation with the Hollywood Museum, California.

A two-day seminar on Creativity and the Patent Process in Engineering, presented by the Engineering and Sciences Extension of the University of California, Berkeley, will be held June 4-5 in San Francisco. The aim of the seminar is to show how creativity in engineering can be made profitable. The seminar will be divided into four half-day sessions. Three of these will cover the psychology of creativity and creativity training; management of creative engineering groups; and establishment of sound patenting procedures. During the final half-day the entire seminar faculty will take part in a round-table discussion in which problem areas and topics of special significance may be taken up.

The American Society for Testing and Materials occupied its new \$3 million headquarters at 1916 Race St., Philadelphia, on March 2. The building, constructed on the site of the former ASTM headquarters, has four floors totaling 65,000 sq ft and a provision for expansion. Accommodations include an auditorium with a seating capacity of about 350, which may be subdivided into two smaller rooms; several additional meeting rooms; offices for the staff; storage space; loading docks and elevators.

Community Television of California has been granted \$468,790 by the Department of Health, Education and Welfare for construction of a television station under terms of an FCC permit for Channel 28, according to an item in the February-March, 1964, issue of *RCA Educational TV News*.

Education, Industry News

The 1964 International Conference on the Photographic Science and Engineering will be held April 27-May 1 at the Hotel Americana, New York. Co-sponsors with the SPSE are Columbia University's School of Engineering and the U.S. Air Force Avionics Laboratory. Papers to be presented will cover a wide range of subjects and panel discussions on subjects of outstanding current significance will be conducted by specially invited speakers who are renowned in their fields. Of special interest during the five-day conference will be cooperative meetings with the SPIE and the SMPTE. An extensive trade and technical exhibition will be held in conjunction with the conference and a special exhibition and demonstration of photographic instruments and instrumentation techniques will be held on the morning and afternoon of April 30 arranged by the SPIE.

Session topics include Aerial Photographic Systems; Selected Photographic Instrumentation and Techniques; Selected Reproduction and Evaluation Techniques; High-Speed and Motion-Picture Photography; Image Evaluation; Monobath and Reversal Processing; Special Evaluation Techniques; Photographic Gelatin; Photographic Processing; Latent Image Formation; Physics and Chemistry of Silver Halides; and Nonsilver Photosensitive Systems.

Panel Discussions will be held on Photographic Aspects of Geodetic Satellites, Discussion Leader, N. Goodwin, Independent Tracking Coordination Program, Washington, D.C.; Modern Aspects of High-Speed Photography, Discussion Leader, Max Beard of the SMPTE; Image Structure Measurements in Color Photog-

raphy, Discussion Leader, C. S. McCamy, National Bureau of Standards; and Latent Image Theory, Discussion Leader, J. F. Hamilton, of Eastman Kodak Co.

Invited papers will be presented by M. Ewing, of Columbia University, on "Use of Photography in Oceanography"; J. S. Courtney-Pratt, of Bell Telephone Laboratories, on "Values and Limitations of Lasers in Photography"; H. J. Zweig, of IBM, San José, Calif., on "Performance Criteria for Photodetectors, Concepts in Evolution"; E. Klein, of Leverkusen, Germany, on "The Crystallography of the Silver Halide Crystal"; and J. Ott, of Time Lapse Research, Inc., Lake Bluff, Ill., on "Time Lapse Photography." About 80 papers, including the invited papers, are scheduled for presentation and four panel discussions are scheduled. A popular lecture and demonstration film will be presented on the evening of April 30.

Members of the conference committee are: General Chairman, Walter Clark; Papers, Heinz F. Nitka; Exhibits, Howard J. Hall; Publicity, Norris Harkness; Registration, Jeromir Kosar; Social Activities, Henry Croix; Audio and Visual Aids, Robert Foshay; and New York Chapter Liaison, James W. Howard.

Address of the SPSE is Box 1609, Main Post Office, Washington, D.C. 20013.

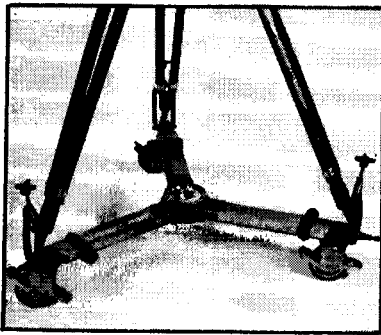
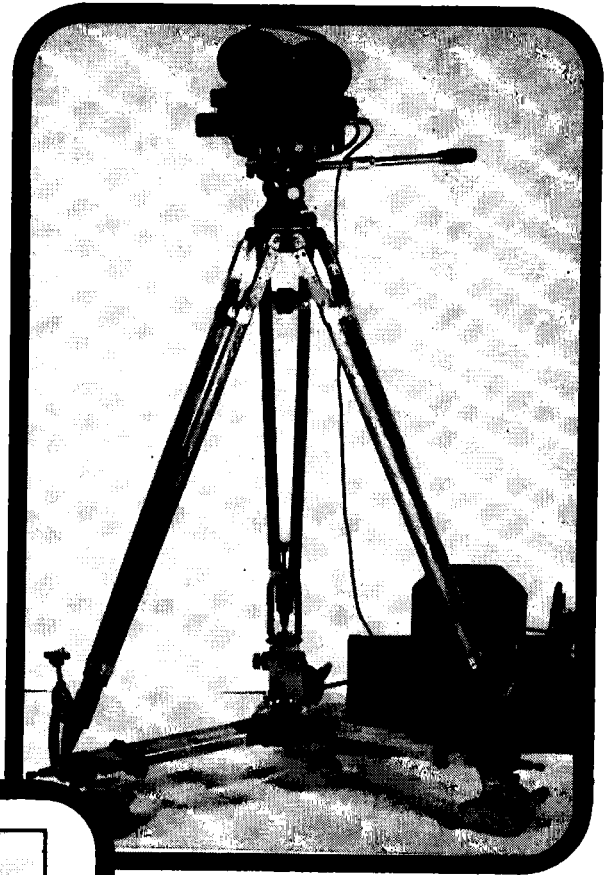
The 1964 Western Radio & Television Conference was held February 26-29 in San Francisco. The first day of the Conference was given over entirely to symposia arranged with the assistance of the SMPTE on the general subject of TV as a Means of Instructional Communication. This was the third in a series of symposia arranged with the Society's assistance. R. A. Isberg, Communications Engineer, University of California, was

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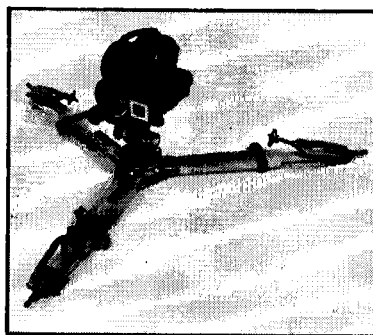
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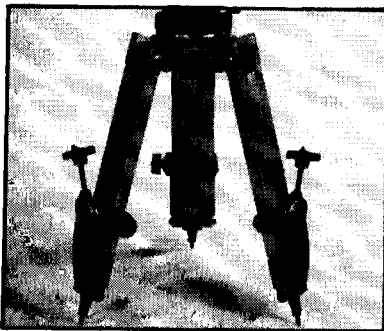
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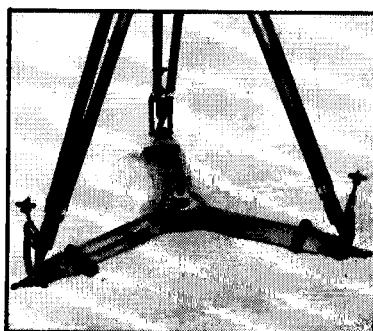
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The HEW grant was made under the Educational Television Facilities Act of 1962 and is the eleventh, and largest, grant. It is expected that a test pattern will be on the air in May, and full programming in September. Total cost of the station is expected to be slightly more than \$1 million.

Arthur Florman, President of Florman & Babb, Inc., 68 W. 45 St., New York, N.Y. 10036, has announced that the firm has acquired a controlling interest in Camera Equipment Corp. and Ceco Industries, Inc. The newly organized company will be known as F & B/Ceco. In making the announcement Mr. Florman said that "mere assets" were not the only or major consideration in the transaction. "This reservoir of resources for the manufacturers of illusion," he said, "is a pledge that the newly organized company will do its part to meet the needs of the industry." He pointed out that the combined knowledge of the enlarged staff of technicians will be made available to all producers, large and small, including producers of low-budget and experimental films.

Robert Bregman, a Wall Street broker, will be Chairman of the Board of the new company, and Mr. Florman will be President.

A mobile television system which incorporates a 75-lb magnetic tape recorder, camera, monitor, two microphones and an audio mixer is used at Stanford University, Palo Alto, Calif. for self-evaluation by student teachers of their teaching performances within classroom environments. The recorder was developed by Machtronics, Inc., Mountain View, Calif., and is manufactured and marketed by Precision Instrument Co., 3170 Porter Drive, Palo Alto, Calif. The recorder is known as the PI-3V. In the self-evaluation program, each student teacher conducts a 10-minute teaching session which is taped and immediately played back on another portable recorder.

A special exhibit is being arranged by Arriflex Corp. of America to be held at its offices at 257 Park Ave. South, New York, N.Y. 10010, to coincide with the World's Fair especially for the convenience of professional filmmakers who plan to be in New York at that time. Equipment to be shown and demonstrated will include the Arriflex 16M; a 1200-ft magazine for the camera; the Universal Fibre Glass Blimp; the Arriflex 35 Model IIBGS; the Siemens 2000 16/16 sound projector; and other items. A special exhibit staff has been appointed, headed by Vice-President Victor James and Bruce Harris, Assistant.

Availability of 16mm reversal color prints, scene-to-scene timed for both intensity and color balance, has been announced by Reeds Colour Film Laboratories Ltd., 89/91 Wardour St., London W.1, England. The prints, designated TruColour, are made in a Bell & Howell additive color printer on Ektachrome Reversal Print Film, Type 7386. In the additive printing process, the light from a 1000-w printing lamp is split into red, green and blue beams by means of di-

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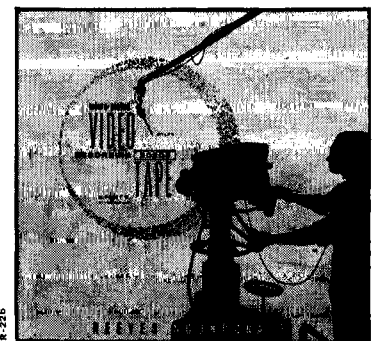
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chroic filters; each beam is separately modulated by means of a light valve; and the three beams are re-combined in the printing aperture. Each beam exposes only one of the three emulsion layers and each emulsion layer must be separately assessed. The exposure of each emulsion layer can be varied independently of the other two layers. The light change is effected by a punched computer-type tape which also controls the starting and stopping of the machine and the insertion of the fades. Print quality, the announcement indicated, hinges on consistently high standards of processing, first of the original and then of the print; the experience and "know-how" of the technicians; and the

special properties of the Bell & Howell printer.

Formation of a new division called Amecom has been announced by Litton Industries, 1 LeFevre Lane, New Rochelle, N.Y. President of the new division, which is made up of the Adler/Westrex Communications, Emertron and the McKiernan Marine divisions, is Alfred Strogoff. Products of the Adler/Westrex Communications division include telecommunications systems, educational TV systems and uhf television broadcasting and repeating systems. Emertron designs and manufactures countermeasures systems, radar navigation equipment, digital com-

mand and control and surveillance systems. Products of the McKiernan-Terry Marine division include marine instrumentation and sonar systems.

Amity International Distributors, Inc., Amityville, L.I., N.Y., has been appointed a worldwide distributor, except for the United States and Canada, for the Century Projector Corp. President of Amity is Adolf R. Schwartz and the Vice-President is Charles Friedman. Mr. Schwartz had been associated with Westrex and its predecessor, ERPI, until his retirement last August as Manager of Branch Operations for Westrex International. He has traveled extensively and has lived in Australia, India and Trinidad where he was manager of Westrex branches. He is now planning extensive foreign travel for Amity.

He reports that the overseas market for American-made equipment has been greatly strengthened within recent years largely because of expansion in 70mm equipment and the opening of new drive-in theaters.

A Senior Foreign Scientist Fellowship of the National Science Foundation has been awarded to Prof. Robert W. Ditchburn, head of the Department of Physics at the University of Reading in England. Prof. Ditchburn will lecture at the Institute of Optics of the University of Rochester, Rochester, N.Y., from April through July and will work with the University's new Center for Visual Science. A Fellow of the Royal Society, Prof. Ditchburn is known for his contributions to spectroscopy, solid state physics, optical instruments and physiological optics.

Harold E. Edgerton, Chairman of the Board of Edgerton, Germeshausen & Grier, Inc., and Professor of Electrical Measurements at the Massachusetts Institute of Technology, has accepted an appointment to serve on the Mine Warfare Advisory Committee of the National Academy of Sciences. The Mine Advisory Committee was established in 1951 to review and evaluate the Navy's research and development program for mine warfare. Dr. Edgerton has participated in many oceanographic research and other special projects for both industry and government. A recent assignment was the search for the nuclear submarine Thresher, in which the bathyscaphe Trieste was equipped with EG&G cameras, lights and sonar equipment.

Dimitri I. Rebikoff, deep seas photographer and inventor of underwater search and recovery vehicles, has joined the oceanography staff of IIT Research Institute of Chicago. (The Institute was formerly known as the Armour Research Foundation of Illinois Institute of Technology.)

Dr. Rebikoff, who was formerly Engineering Manager of the Underwater Technology and Oceanography Division of Loral Electronics Co., developed the T-14 Pegasus and is the inventor of a complete line of underwater color photography equipment and geodetic stereo underwater cameras. He is recipient of the 1953 Niepce Medal of Société de

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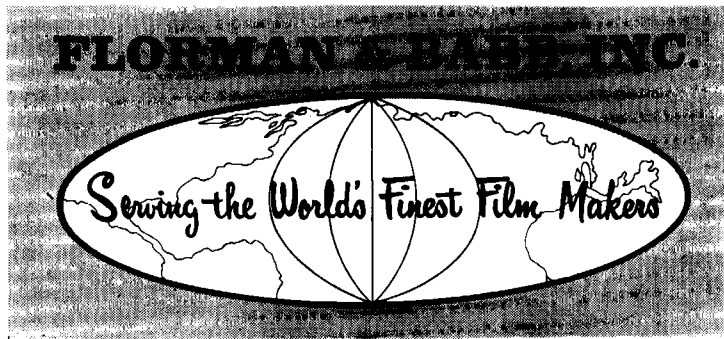
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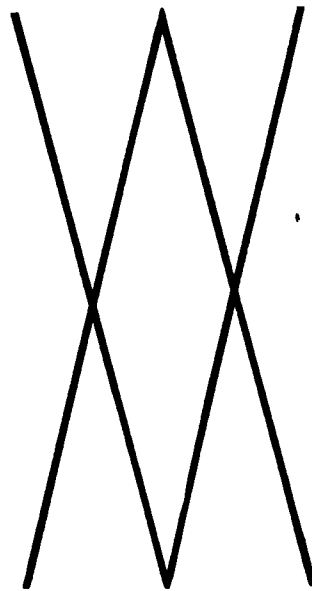
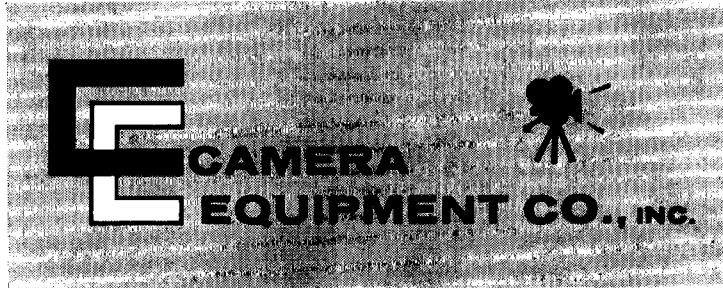


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Photographie, Paris; scientific film award for the first color film underwater at the 1952 Cannes Film Festival; top award and gold medal at the Santa Monica Undersea Photo Festival; and outstanding photographer award at the 1960 Santa Monica event. He is founder of the Rebi-koff Co. of Cannes; founder and Vice-President of Submarine Research Institute in Cannes and New York; and co-founder of the Marine Technology Society in Washington, D.C.

Sid Lund has joined the sales staff of General Film Laboratories, 1546 N. Argyle Ave., Hollywood 28, Calif. He was formerly in charge of laboratory administration and the camera department at Universal Pictures Co. He has been active in film companies for more than 25 years and during World War II he was in charge of motion-picture field activities for the Army Pictorial Service.

Two staff appointments have been announced by H. "Scoop" Clapp, President of Camera Service Center, Inc., 33 W. 52 St., New York, N.Y. 10019. Frank Riker has been appointed Marketing Director and Hans Mutz has been appointed Chief of Engineering. Both men were formerly associated with Ceco.

Donald L. Tucker has been appointed Assistant Manager of Sales for Mitchell Camera Corp., 666 West Harvard St., Glendale 4, Calif. He will also represent

Mitchell-Vinten, Inc., as Manager of Sales of aerial reconnaissance cameras and ancillary television camera handling equipment made by W. Vinten Ltd. of London. Mr. Tucker previously was Marketing Manager for Herron Optical of Los Angeles.

Also announced by Mitchell Camera Corp. is the appointment of three senior engineers to its staff. The newly appointed project engineers are John Jergens, formerly Chief Engineer of Photo-Sonics, Inc., Burbank, Calif.; Steven C. Szabo, formerly Chief Engineer of Ford Electronics, Inc., North Hollywood; and Cy Miller, formerly Project Engineer at Cinerama Corp., Santa Monica.

Jack Glass has been appointed Production Manager for Cinema Research Corp. of Hollywood, and Luis McManus has been appointed Art Director. Mr. Glass was formerly head of the Photo Effects Dept. of Hal Roach Studios, and more recently with M-G-M's Optical and Special Effects Dept. Mr. McManus was creative director for Howard Anderson Co., and prior to that was a film editor with Hal Roach Studios.

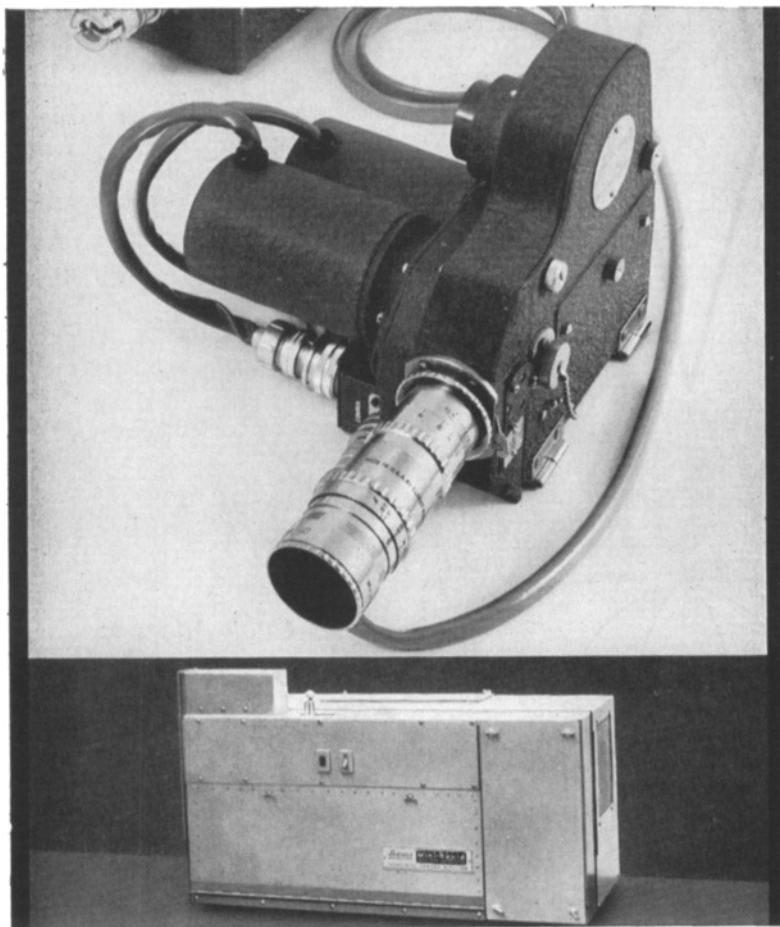
Charles Lipow has been appointed Assistant to the President of Birns & Sawyer Cine Equipment Co., 6424 Santa Monica Blvd., Hollywood 38. He was previously associated with Camera Mart, Inc., of New York, and has also been associated with Florman & Babb, Inc., De Luxe Film

Laboratories and Du Art-Tri Art Film Laboratories. In his new post he will be directly responsible for all sales promotion, public relations and advertising for the company.

William J. Moreland and Damon Van Utt have been elected Vice-Presidents of Giannini Controls Corp., 1600 S. Mountain Ave., Duarte, Calif. Mr. Moreland is General Manager of the Conrac Division, Glendora, Calif., which manufactures broadcast and closed-circuit television equipment. Mr. Van Utt is General Manager of the Cramer Division, Old Saybrook, Conn., which produces timing motors and interval and cycling timers.

Hugh S. Allen, Jr., has been elected Vice-President of Gotham Audio Corp., 2 W. 46 St., New York, N.Y. 10036. He joined the firm in January, 1963, as Sales Director. Previously he had been Vice-President of Sales for Langworth Feature Programs in New York. In his new post he will be responsible for advertising, sales, engineering and administration.

Irv Turvey, Sales Engineer, has been appointed Western Manager for SOS Photo-Cine-Optics, Inc., 602 W. 52 St., New York, N.Y. 10019. His headquarters will be at the firm's California Branch Office in Hollywood. His territory will cover 13 Western States including Alaska and Hawaii and will also include Western Canada.



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Ben Zale has been appointed Marketing Manager for Karl Heitz, Inc., 480 Lexington Ave., New York 17, N.Y. Mr. Zale became Associate Editor of *Photographic Trade News* in 1948. Later he became editor of *PTN Master Buying Guide* and, on the founding of *Industrial Photography* became its first Editor. More recently he has been head of Advertising and Public Relations for leading camera manufacturers.

Charles A. Donahue has been appointed Eastern Regional Sales Manager of Reeves Soundcraft, Division of Reeves Industries, Inc., with headquarters at 302 E. 44 St., New York, N.Y. 10017. Prior to this

appointment Mr. Donahue served as Advertising Manager for Irish and later Ampex. In his new post he will be responsible for the sale of Reeves Soundcraft products throughout the Eastern region.

A new type of lightweight, high-strength laminate and a process for deep drawing this material into a variety of shapes have been developed at Bell Telephone Laboratories. The laminate consists of two aluminum sheets bonded to a solid polyethylene core and the composite material can be welded. It can also be adhesively bonded to many other materials and it can be riveted, bolted, punched and

sheared. Comparatively inexpensive to produce, it is said to have superior flexural qualities in relation to its weight; tests have shown that a 4-lb laminate sheet can deflect the same amount under the same bending moment as that deflected by a 10-lb steel sheet of equal width. Announced as the first low-cost, solid core, structural metal-plastic laminate that does not use an adhesive to form a bond between its component materials, the solid core of the laminate adds strength and permits deep drawing of the material when the core is heated.

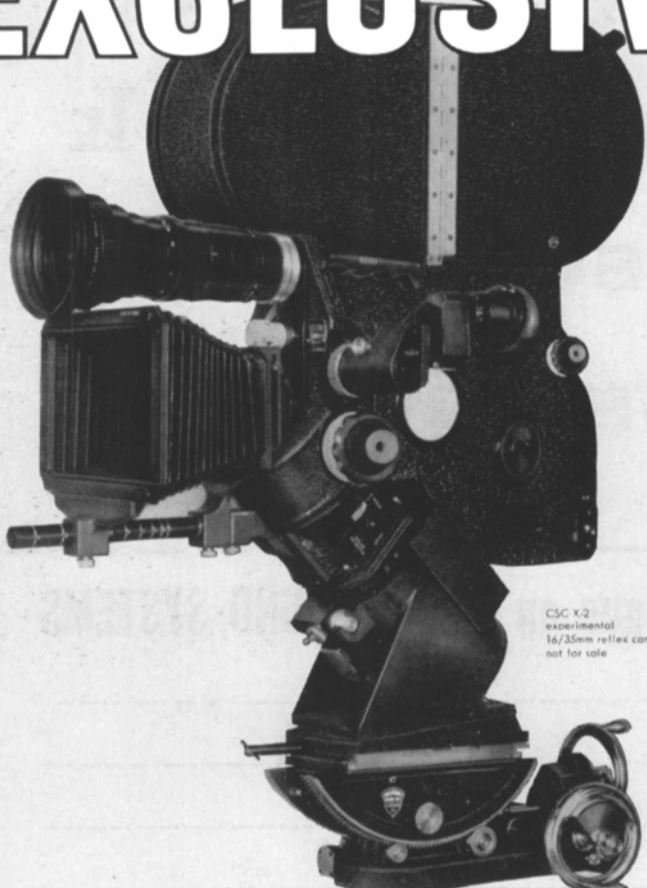
A field engineering organization created to provide services for purchasers of closed-circuit television cameras and receivers and related equipment has been announced by the Home and Commercial Electronics Div. of Sylvania Electric Products Inc., 730 Third Ave., New York, N.Y. 10017. Services include field engineering, training, installation, repair and maintenance, and technical service. Head of the new organization is F. T. Henry, Manager of Field Engineering — Commercial Products.

A technical center to be established in the Cleveland, Ohio, area, and a new plant in Greenville, S.C., have been announced by Union Carbide Corp., 270 Park Ave., New York, N.Y. 10017. Both facilities will be operated by the firm's Carbon Products Div. The technical center, planned to cover about 175,000 sq ft, will consolidate activities of three Carbon Products Division development laboratories now in Niagara Falls, N.Y.; Fostoria, Ohio; and Lawrenceburg, Tenn. The Greenville, S.C., plant will produce motor and generator brushes and mechanical seal rings now manufactured in Cleveland.

Sale of three operating divisions to Defiance Industries, Inc., for about \$1.5 million has been announced by TelePrompTer Corp., 50 W. 44 St., New York, N.Y. 10036. Properties sold are the Weathers, Conley Cartridge and Audio-Visual Divisions, all located at Cherry Hill, N.J., and engaged in the manufacture of high-fidelity components, magnetic tape cartridges and audio-visual equipment and systems. In the future they will be known as TelePro industries. It was also announced that TelePrompTer has approved a one-year leave of absence for H. J. Schlafly, Jr., a Director and former Vice-President of the firm, during which he will serve as operating head of the Cherry Hill company. The announcement also stated that TelePrompTer would concentrate in the future on community antenna television.

Purchase of the Abrams Instrument Co. of Lansing, Mich., by J. A. Maurer Co., 37-01 31st St., Long Island City, N.Y., has been announced. No change in the management or operations of the newly purchased firm is contemplated, the announcement indicated. The Abrams Instrument Co. produces counter and recording systems, test equipment and cameras. The J. A. Maurer Co. has specialized in aerial reconnaissance cameras and related equipment for 25 years.

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