

Explaining, Reporting, Selling and Telling (Terst) Films; The Use of Dramatic Devices in Postgraduate Medical Education by Television; The Use of Television in Psychiatric Treatment and Education at Three Major Medical School Installations; An Integrated Circuit Film Footage — Time Counter; Educational Technology and the Equipment Manufacturer; The Future of the "Anthropology Film"; Cost Analysis of Non-broadcast Television Facilities for Educational Institutions.

Theater Presentation and Projection

Modern Motion-Picture Theater Construction (a symposium and discussion with leading theater architects and engineers); An Improved Lamphouse for Xenon Sources; Automated Projection Equipment (a symposium and panel discussion); "Halo-Light" Optical System for Use with Xenon Arcs and Halogen Lamps; Theater Presentation and Projection; Projection Depth of Focus vs. f /number; Projection Illumination vs. Three Film Formats; Color Specifications for Theater Systems in the Motion-Picture Industry; A New Radiometer for Color TV and Projection Studies.

Television

New Antenna Installation on the Empire State Building; Flying-Spot Scanners and Image Dissectors; Color and Black-and-White TV Receivers; Study of Noise in Television Broadcast Equipment; T.B.A.; Splice Identification for Video Tape; A Double Super 8mm Kine Recorder for the Educator; A Novel Controlling System for SSS Dimmers; Videoscope, A Screen Process System for Color TV Using a High-Gain Screen; A Helical-Scan Tape Recorder; A New Vidicon Color Camera; Internal Control Over TV Slide Production; Applications, Requirements and Design of CCTV Systems Aboard Naval Ships; Color Stop-Motion Disc; A Slow-Motion Color Recorder; A Handheld Color Camera; Nonphased Color System; A Television Intercom System; Solid State Transmitter; Video Graph; and Color Film Chain.

Small Format Films

Super 8: Its Interim Status; and Related to Small Format Films.

Sound

Acoustic Design Factors for Wide-Screen Theaters; Multi-purpose Studios; Suggestions for Reducing the Quality Inconsistencies Experienced with V-A Soundtracks; Automated Dialogue Replacement; A New Type of Sound System — Dynamic Sound; and More Remarks on the Beginnings of Talking Pictures.

Studio Practices

Ingenuity of Equipment Utilization and Economics for Small Producers to Provide Optimum Production Quality and Versatility; A Proposed 34-f/m System for 35mm Motion-Picture Production; Special Considerations for Photographic Coverage of an Archeological Expedition to South America; The First Total-Concept Motion-Picture Studio; The Development of Motion-Picture Camera Aids in Britain; The Electronic Production of Motion Pictures; and New Lamp Developments.

Laboratory Practice and Color Quality Control

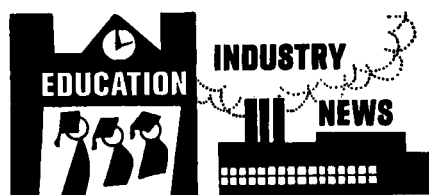
Quality Control Through Technical Testing; The Techniques Used in Converting 35mm Three-Strip Separations to 70mm Color; A High-Speed Reduction Printer; Laboratory Quality Control in a Government Incentive Contract; Design of a Computer-Controlled Editing Console for Film and Video Tape; Film Sharpness Measuring; New Concepts in Film Processing Machines; Treatment of Film for Reentry Loop Projection; The Detection and Elimination of Processing-Induced Noise on Magnetic Striped Film.

Systems Approach to TV Color Quality Control

Proposed Color Television Test Slide.

Call for Papers

According to Program Chairman Alan Gundelfinger, papers are still being accepted for the 103rd Technical Conference. As soon as possible, Author Forms and 500- to 750-word synopses of papers should be sent to SMPTE Headquarters, *ATT: 103rd Conference Program*, 9 East 41st St., New York, N.Y. 10017. Manuscripts should be submitted before March 4. (See Nov. 1967 *Journal*, pp. 1127-1128, for Topic Chairmen and requirements.)



Elements of Color Now Available

Elements of Color in Professional Motion Pictures has just been reprinted and is now available.

Since its original publication in 1957, *Elements* has been one of the SMPTE's most popular books. It has had the widest distribution of any SMPTE book and the demand for it has continued despite recent advances that make certain portions out of date. *Elements of Color* is such a basic book in its field that it is still important as a text for the professional and student alike.

Elements has been reprinted as originally published in 1957, 104 pages including 27 pages of color illustrations. A new introduction has been added, however, to explain where the book is out of date and how the book can be applied to current practice.

To help make *Elements of Color* a more useful text, an 8-page insert, *Motion Picture Prints From Color Originals*, is being included with the book. The insert is provided by the Eastman Kodak Co., Motion Picture and Education Markets Division, Rochester, N.Y. 14650.

Elements of Color was prepared by a special SMPTE committee of which Wilton R. Holm, E. I. du Pont de Nemours, Hollywood, was chairman.

The cost of the book is \$7.00, with discounts for SMPTE members, libraries, booksellers, and for quantity purchases.

An Engineering Institute on Modern Photographic Techniques for Industry will be held April 16-17 at the University of Wisconsin under the auspices of the Society and the University of Wisconsin Extension Department of Engineering. There will be concurrent sessions on photographic instrumentation and industrial photographic production techniques. In the instrumentation session a variety of still and motion-picture instrumentation techniques will be described with special emphasis on medical applications. During the production session nationally known specialists will demonstrate and discuss various aspects of industrial motion-picture production, including equipment, editing, lighting

techniques, materials and procedures of production. Attendance will be limited. A tuition fee of \$50 includes the cost of the course. Inquiries concerning the Instrumentation Session should be addressed to John T. Quigley, 725 Extension Building, University of Wisconsin, 432 North Lake St., Madison, Wis. 53706. Inquiries about the Production Session should be directed to Rolf G. Schuenzel at that same address.

The U.S. Industrial Film Festival will be held April 25 at the Center for Continuing Education, University of Chicago. J. W. Anderson is Festival Chairman. The newly organized international festival will recognize films produced commercially as well as by governmental, university and in-plant producers. Festival events will include a seminar and an awards ceremony. Entries are limited to 16mm industrial motion pictures and 35mm filmstrips produced between January 1, 1967, and the deadline for entries, March 1, 1968. Further information is available from U.S. Industrial Film Festival, Suite 1121, 333 N. Michigan Ave., Chicago, Ill. 60601.

Photographic Science and Research in Modern Technology will be the theme of the Society of Photographic Scientists and Engineers Spring Conference to be held

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June 10-14 in Boston (*Journal* p. 1250, Dec. 1967). Five session topics are planned with three to five subtopics: *Photographic Applications to Modern Technology* (1) Aerial Photography, (2) Medical Photography, (3) Lasers and Holograms, (4) Microcircuitry, and (5) Information Storage and Retrieval; *The Photographic Medium* (1) Emulsions and Gelatins, (2) Chemical Sensitization, (3) Dye Sensitization, and (4) Unconventional Photographic Media; *Processing Chemistry* (1) Diffusion Transfer, (2) Processing Research, and (3) Color Processing; *Photographic Theory* (1) Latent Image Theory, (2) Color Theory and (3) Image Evaluation; *Photographic Instrumentation* (1) Optical Instrumentation, (2) Sensitometry and Densitometry and (3) Processing Instrumentation.

Further information is available from SPSE, Suite 204, 1330 Massachusetts Ave., N.W., Washington, D.C. 20005. Papers Chairman is Allan Shepp whose address is Technical Operations, Inc., Burlington, Mass. 01803.

Modulation Transfer Function: Recent Developments, Applications and Problems will be the subject of a seminar-in-depth sponsored by the Society of Photo-Optical Instrumentation Engineers to be held March 21-22 in Boston, Mass. This will be a specialist seminar concentrating on state-of-the-art techniques for the calculation, measurement and application of the modulation transfer function. Recent developments in applying high-speed Fourier transform techniques to calculation of two-dimensional transfer functions will be explored. Correlation of measured and calculated data will be discussed. Applications to systems tolerancing and quantitative image prediction will be examined. The problem of writing original lens specifications in terms of transfer functions will also be discussed. Seminar Chairman is Richard J. Wollensak and Technical Program Chairman is Robert R. Shannon, both of Itek Corp. Further information is available from Modulation Transfer Function Seminar Committee, SPIE, P.O. Box 288, Redondo Beach, Calif. 90277.

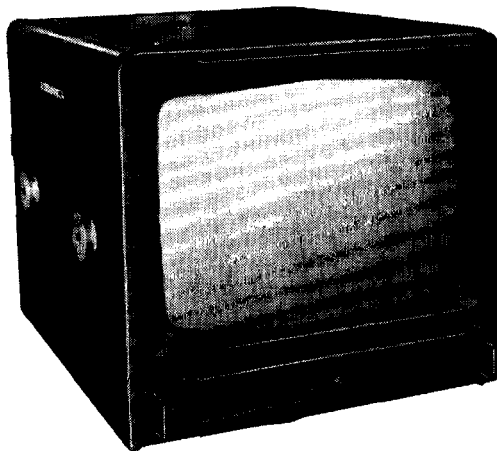
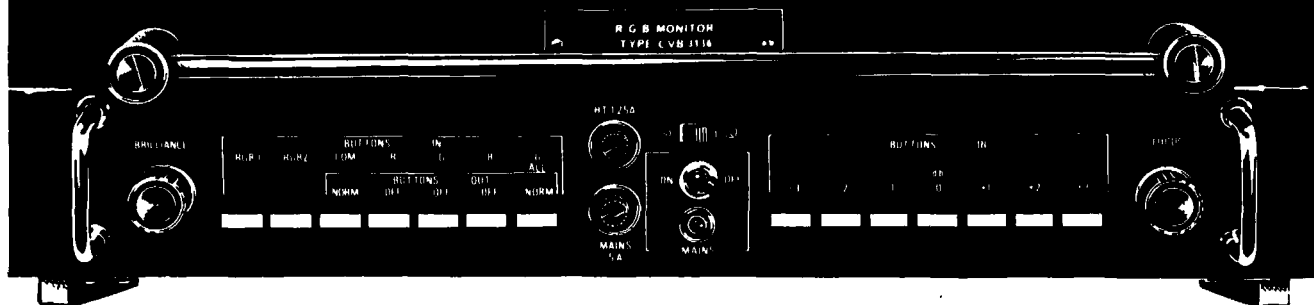
Fiber Optics: History, Technology and Applications is the subject of a seminar-in-depth sponsored by Society of Photo-Optical Instrumentation Engineers to be held April 29-30 in Baltimore, Md. The seminar is planned to cover the whole range of technical interests, including history, technology and applications. Topics to be discussed will include history, technology, applications, systems considerations, future applications and potential uses. Seminar Chairman is Clyde Holliday of the Johns Hopkins Applied Physics Laboratory. Technical Program Chairman is Rupert Stow of CBS Laboratories. Further information is available from Fiber Optics Seminar Committee, SPIE, P.O. Box 288, Redondo Beach, Calif. 90277.

Techniques in High-Speed Photography is the subject of a seminar to be held June 17-21 at the Massachusetts Institute of Technology. The seminar will meet at the Stroboscopic Light Laboratory where the

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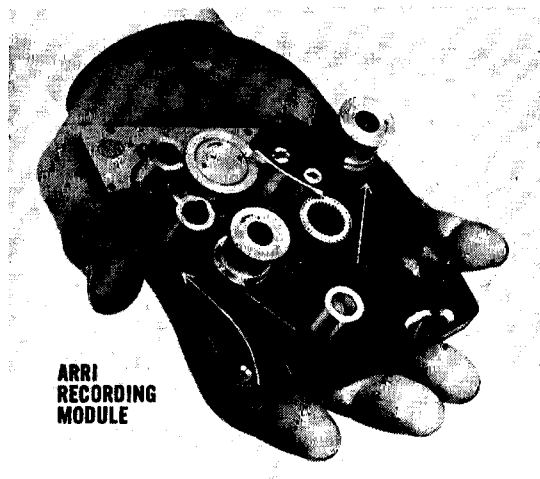
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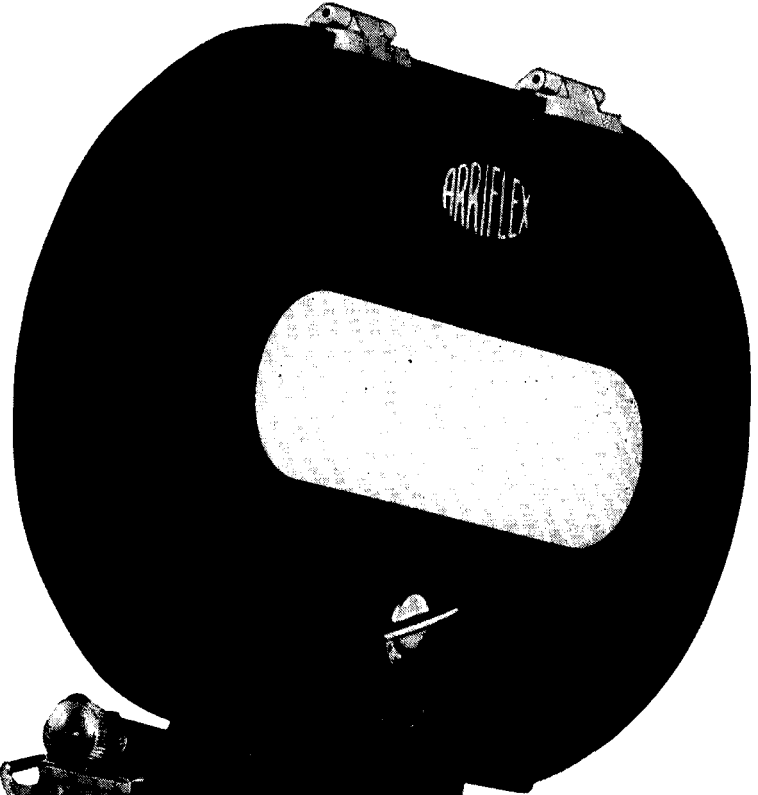
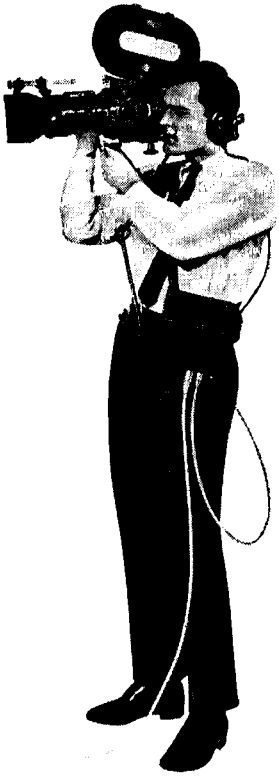
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theory and application of various methods will be studied. Subjects to be covered during the seminar include pulsed stroboscopic lighting, optical high-speed cameras, Kerr cells, Faraday shutters and image converters. Specialists in high-speed photography have been invited to discuss their subjects at the seminar and there will be practical laboratory demonstrations of many types of high-speed photographic equipment. It is planned that the mornings will be devoted to theory and demonstrations and the afternoons to laboratory practice. Inquiries should be addressed to Office of the Summer Session, M.I.T., Room E19-356, Cambridge, Mass. 02139.

The University of Southern California's School of Medicine has received a gift of \$487,200 from the Louis B. Mayer Foundation to construct and equip the Louis B. Mayer Medical Teaching Center. The Center, which will have a 500-seat auditorium and 20 special teaching rooms, will be part of the complex of facilities for medical education planned for USC's 12-acre medical campus adjacent to the Los Angeles County General Hospital.

The Department of Audiovisual Instruction (DAVI), 1201 16th St., N.W., Washington, D.C. 20036, will hold its annual convention March 24-29 in Houston, Tex. Theme of the convention is Media and the Learning Process. The program will include general sessions, concurrent programs, seminars and research reports as

well as field trips, study trips and other special events. The convention will include an extensive exhibit of instructional media. There will be a special presentation by the staff of the Houston Manned Space Flight Center and NASA, called "The World of Today and Tomorrow."

The 1968 ACSM-ASP Convention, sponsored by the American Congress on Surveying and Mapping and the American Society of Photogrammetry, will be held March 10-15 in Washington, D.C. Sessions will run concurrently. Some 50 ACSM papers are scheduled and a comparable number of ASP papers. A joint ACSM-ASP session will be held on March 14 and various social events have been planned. A number of ASP papers on aerial photography, color photography and various testing procedures will be given. Papers will also be given on extraterrestrial photogrammetry. Director of the convention is William B. Overstreet. An exhibit where the latest developments in instrumentation, service and supplies related to photogrammetry, surveying, mapping, photointerpretation, data collecting and processing, etc., will be held March 12-14. Information about registration is available from Miss Sharon Barnett, Chairman Registration Committee, 1968 ACSM/ASP Convention, 2258 N. Beauregard St., Alexandria, Va. 22311.

IIT Research Institute, 10 W. 35 St., Chicago, Ill. 60616, has announced its 1968

schedule of seminars, courses and workshops in APT, Numerical Control and Symbolic Control. Seminars in Introduction to Symbolic Control will be held March 14-15 and September 26-27. A course in Basic Numerical Control was held January 8-10 and will be repeated May 6-8 and November 11-13. A training course in Basic APT Part Programming was held January 15-19 and will be repeated May 13-17 and October 28-November 1. A course in Advanced APT was held February 12-16 and will be repeated June 10-14 and December 2-6. An Art Workshop will be conducted February 19-March 1, March 25-April 5, June 17-28, August 5-16 and October 7-18. Information is available from Special Affairs, P.O. Box 95321, IIT Research Institute, Chicago, Ill. 60680.

An historical survey of scientific and technical photography in Canada is being conducted by H. Ross Jackson with the assistance and encouragement of the National Science Library, National Research Council of Canada. While Mr. Jackson has access to archives and other formal depositories of early material on this subject, he is especially interested in acquiring relatively unknown material. Anyone having information of obscure sources for material on this subject is requested to communicate with Mr. Jackson. (H. Ross Jackson, R.B.P., 6 Ascot Ave., Ottawa 6, Canada.) Mr. Jackson emphasized that full credit would be given to the source of any material that would be useful for the purposes of the survey.

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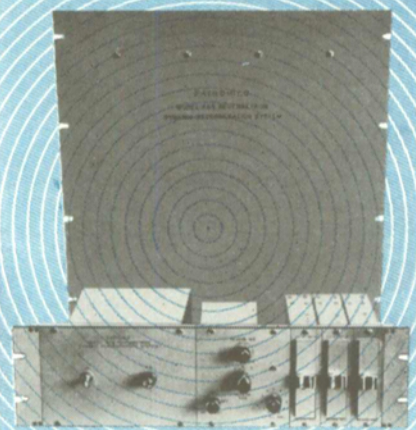
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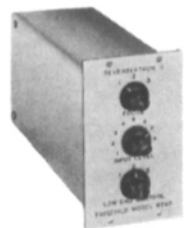
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The Association of Cinema Laboratories, 1925 K St., N.W., Washington, D.C., has announced the findings of the 1966 annual production survey of processed film footage which show considerable increase in color film processing and a marked decline in black-and-white processing. The survey was made by Peat, Marwick, Mitchell & Co., which released a comparison report on 62 laboratories which supplied data for 1965 and 1966. The report shows a decline of 16.21% in black-and-white film processing in 1966 and an increase of 43.21% in color processing. In black-and-white the greatest decline was 33.41% in 35mm. The decline in 16mm was only 4.32% and 8mm declined 14.10%. A total 959,613,413 feet of black-and-white film in all widths was reported for 1966 as compared to 1,145,248,807 in 1965.

In color the greatest increase was 62.23% in 16mm. An increase of 34.26% was reported for 35mm and an increase of 19.34% in 8mm. A total of 1,557,997,262 feet of color film was processed in 1966 as compared to 1,087,881,339 feet in 1965.

Experiments in Art and Technology, Inc., was organized in the fall of 1966 to "maintain a constructive climate for the recognition of the new technology and the arts by a civilized collaboration between groups unrealistically developing in isolation; eliminate the separation of the individual from technological change . . . and encourage industrial initiative." During the brief time E.A.T. has been in existence it has acquired an impressive list of sponsors, including the AFL/CIO.

The E.A.T. approach to the union of art and technology is not exactly new, since the artist, and particularly the artist whose work is involved with relationships of form, space, time and light, has always been dependent upon the technician. However, this may be the first time that the artist and the engineer will be working together on an equal footing to produce a work of art that will express both the artist's and the engineer's view of life.

The E.A.T. philosophy should be of particular interest to motion-picture and television technicians, since the true collaboration of the engineer and the artist began with the advent of motion picture as an art form and became even more a matter of necessity with the development of television. This symbiotic relationship is especially significant in this context.

Chairman of the Board of Directors of E.A.T. is John G. Powers. Theodore W. Kheel is Chairman of the Executive Committee. The President is J. Wilhelm Klüber, an electronics engineer at Bell Telephone Laboratories who specializes in laser research. Other officers are Robert Rauschenberg, Vice-President; Fred D. Waldhauer, Secretary, and Robert Whitman, Treasurer. Headquarters of E.A.T. are presently at Mr. Rauschenberg's home at 9 East 16 St., New York, N.Y. 10003, but arrangements are now underway for establishing its headquarters at Automation House, 49 E. 68 St., a building owned by the American Foundation on Automation and Employment.

The E.A.T. debut (for the general public) took place October 10 in a loft with examples of the avant-grade resulting from

the "working alliance" of art and technology. One of the most attention-getting results of the union of art and technology was a computer-generated nude created by two engineers. The steps in its creation began with a photograph from which a transparency was made. The transparency was then scanned with a device operating like a television camera. The information on the transparency was then stored on magnetic tape in the form of pulses standing for digits with the brightness elements represented by numbers ranging from 0 to 7. After processing all the numbers the computer printed a drawing of micropatterns formed by clusters of signals used in the electronic design.

While the showing was arranged after E.A.T. became a corporate entity, it really began with an earlier event — the *9 Evenings: Theater and Engineering* which was shown last year at the 69th Regiment Armory in New York to an audience of more than 10,000; *9 Evenings* resulted from the collaboration of 40 engineers and 10 artists.

A future event of considerable importance will be a Museum of Modern Art exhibit to be called *The Machine*. It will be held in the fall of 1968. E.A.T. has announced a competition for works of art produced by an artist-engineer team, with a jury of scientists and engineers selecting those to be shown at the Museum of Modern Art. Monetary prizes are also offered (*Journal*, p. 56, January 1968). The exhibit will be directed by K. G. P. Hulten, Director of Moderna Museet, Stockholm.

The 21st Century series of 16 16mm films for junior high school and college level audiences has been announced by McGraw-Hill Films, Dept. WP, 330 W. 42 St., New York, N.Y. 10036. Each film in the series runs for 25 minutes and is priced at \$300. The films deal with such 20th century subjects as possible colonization of the moon, possibilities of extraterrestrial life, exploration of the ocean, problems of the population explosion (in a film entitled *Standing Room Only*), the current state of development in artificial limbs, blood vessels and vital organs (*Man-Made Man*), the possibilities of changing the human race through genetic control, and other timely subjects. McGraw-Hill also announced two new films from the Middle Eastern World Series: *Israel: Making a Land Productive and Turkey: Modern Reforms*. The films are in 16mm sound and color and are priced at \$210 each. Also available is the *Driver Training Series*, a set of 12 8mm film-loops made in association with the American Automobile Association. The set is priced at \$160.

A series of 20 medical education films on human anatomy, called the *Cine-Prosector Series*, is available to medical, dental and nursing schools, hospitals and health institutes. The films average about 12 min each. The series, in 16mm color with optical sound or 8mm color with magnetic sound, was produced by A-V Corporation, 2518 North Blvd., Houston, Tex. 77006, and may be obtained from Teaching Films, Inc., P.O. Box 66824, Houston, Tex. 77006. Author of the films is Dr. Laurence E. Wragg, Professor of Anatomy at Northwestern University. Dissection and demon-

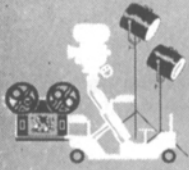


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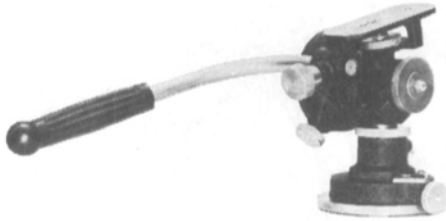


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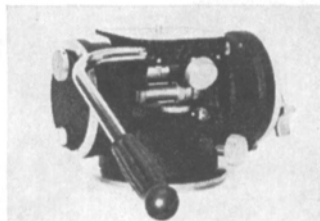
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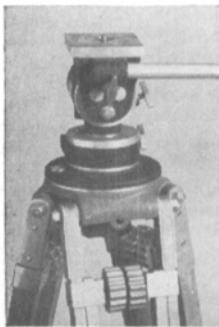
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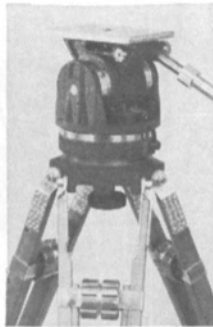
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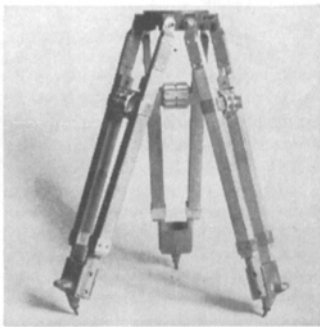
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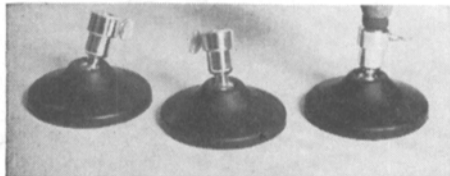
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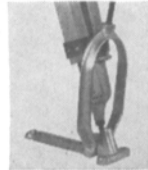
CM 110—Camart Sta-Sets. Fits easily and securely into tripod leg. Provides non-slip, quiet, vibration free support.



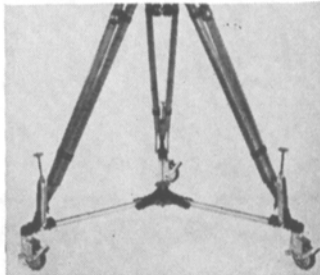
CM 106—NCE Hi-Hat. For low angle photography.



CM 107—Camart Heavy-Duty Collapsible Triangle. Rigid tripod support with true lock center casting. No breaking Hinges, twisting or buckling.



CM 108—Camart Car Top Clamps. Steady support for your camera tripod when atop a station wagon or car platform.



CM 109—Camart Three Wheel Light Weight Collapsible Tripod Dolly. Moves heaviest camera in any direction even while shooting.

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strations of human anatomy are conducted by Dr. Wragg in the Anatomy Laboratories at Northwestern. Dissection is performed on injected cadavers with demonstrations stressing muscle function as well as anatomical relationship.

Spot Prevention, a film produced by the National Medical Audiovisual Center in Atlanta, Ga., has received two awards in the 1967 Industrial Film Awards Competition sponsored by *Industrial Photography*. The animated film was designed to encourage vaccination of children against measles.

The Technical Translations (TT) announcement journal published by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151 has been discontinued. All government-sponsored technical translations are now announced in the Clearinghouse journal, *U.S. Government Research and Development Reports (USGRDR)*. The first issue of *USGRDR* which announced the translations was Vol. 68, No 1, Jan. 10, 1968. Subscription rates are \$30 a year (\$37.50 foreign). Single copies are \$3.00. All reports, including translations, announced in *USGRDR* are indexed in the companion journal, *U.S. Government Research and Development Reports Index (USGRDR-I)*, formerly called *Government-Wide Index*. *USGRDR-I* subscription rates are \$22.50 a year (\$27.50 foreign). Single copies are \$3.00. Translations not sponsored by United States Government agencies are not announced by Clearinghouse. Such translations are announced in the *Translations Register-Index* published by Special Libraries Association Translations Center (SLA Translations Center, John Crerar Library, 35 W. 33 St., Chicago, Ill. 60616, \$30 a year) and in the *ETC Quarterly Index*, published by European Translations Centre, 101 Doelenstraat, Delft, The Netherlands, and available at \$25 a year. Clearinghouse provides reference information and attempts to answer specific queries on all translations both Government-sponsored and non-Government sponsored.

Film Editor is a new publication by and for members of IATSE Local 771. In six pages it not only contains news about individual members of Local 771 but also evaluates economic trends in terms of what these trends may mean to motion-picture film editors. Among other items of interest, it lists books of particular interest to film editors as well as to others interested in the field of motion pictures. Editor of the lively publication is Ray Greenberg, 50-35 184 St., Flushing, N.Y. 11365. Headquarters of Local 771 are at 250 W. 57 St., New York, N.Y. 10019.

Film Library Quarterly is a new publication published by Film Library Information Council, 101 West Putnam Ave., Greenwich, Conn. 06830. The first issue (Winter 1967-68) contains an excellent report on the film programs at the New York Public Library's Countee Cullen Branch ("Hey Mister, When's the Movies?" by Wendell Wray). Other articles include "An Ideal Film Library" by William J. Speed; "The North Carolina State Film Service" by Herschel V. Anderson; "Opportunities for

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Film Study at the Library of Congress" by John B. Kuiper; "The Role of the Museum of Modern Art in Motion Pictures" by Willard Van Dyke; and "TV and the Social Documentary" by Jack Willis. The quarterly also contains a number of regular columns including film and book reviews.

DB The Sound Engineering Magazine is a new publication with offices at 980 Old Country Rd., Plainview, N.Y. 11803. The circulation is controlled to professional sound men in recording studios, broadcasting and television, commercial and theater sound, the film industry and closely allied fields. The publication will contain information of new equipments and reports on new techniques. Each issue will concentrate on one aspect of audio engineering, such as studio techniques, amplification, video recording, disc recording, microphones, tape dubbing, and other areas of interest. Regular departments will be conducted on studio operation, servicing, tape, plant news, product news and personnel news. Editor of the new magazine is Larry Zide who was formerly editor of *Audio Magazine*. The first issue appeared in October 1967.

A new rental equipment catalog is available upon request from Camera Mart, Inc., 1845 Broadway, New York, N.Y. 10023. The 32-page catalog includes such new additions to the firm's rental list as the Mitchell Mark 11 35mm reflex system, the Arriflex 16mm BL single system magnetic

sound camera, the Blemack 8-wheel spider dolly with Jonathan Jib arm boom assembly, the latest Nagra sound recorder, a complete assortment of Angenieux zoom lenses and the latest ColorTran and Mole-Richardson quartz lighting equipment. The catalog also contains trade union listings, professional societies, transportation facilities and the New York City contact for film permits.

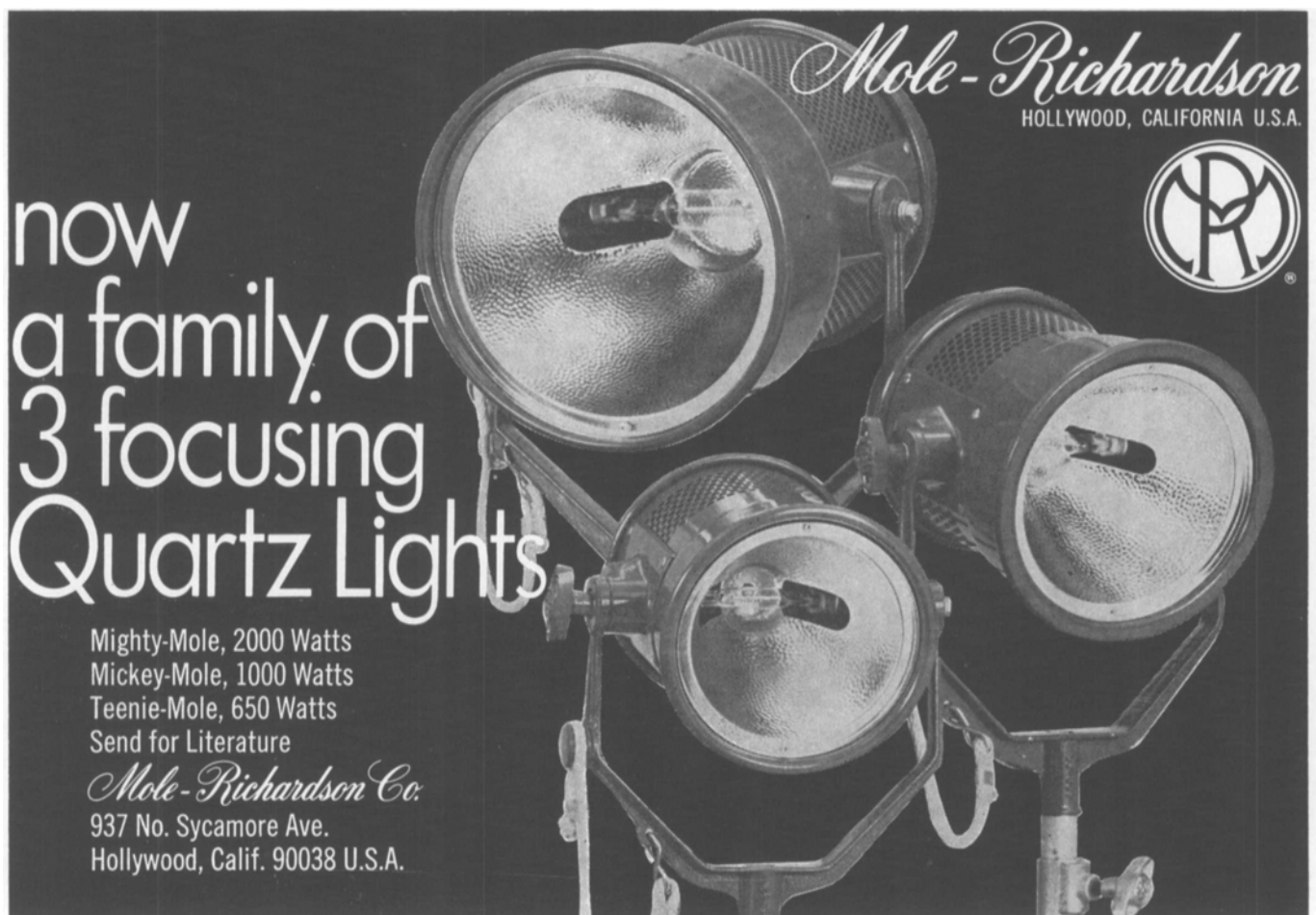
Television for the Bahamas will be established by 1969, according to an announcement by the Hon. Jeffrey Thompson, Minister of Internal Affairs for the British island colony. The Bahamian system will include AM and FM radio, a television network center, television distribution, rebroadcast facilities, educational television, and related requirements. The television system will be initially monochrome with provision for later addition of color. All Bahamian broadcasting facilities will be commercial, under the jurisdiction of the Bahamas Broadcasting and Television Commission. Installation of the system will be done by N. J. Pappas & Associates of Montreal. The firm, active in communications systems throughout the world, has also been engaged in long-range communications and broadcasting projects in radio and television in Malaysia, Hong Kong, Ghana and Mexico, among other countries, as well as in the United States and Canada.

The Mar del Plata (Argentina) and Rio de Janeiro (Brazil) film festivals will be held in alternate years in March beginning

in 1969, according to an agreement between the Cinema Institute of Brazil and the Cinema Institute of Argentina. The agreement is part of a program of cooperation between the two countries which is expected eventually to include other Latin American countries, and to result in the creation of a Latin American Common Market of Film Industries. The overall aim of the Cinema Institutes of the two countries is "a more rapid consolidation of their respective film industries, promoting their industrial, artistic and cultural development as well as their expansion in international markets."

Ampex Corp. of Redwood City, Calif., has acquired all the outstanding shares of Townsend Associates, Inc., Feeding Hills, Mass., according to an announcement issued jointly by the two firms. Townsend is a manufacturer of UHF klystron television signal transmitters, translators and power boost converters for UHF television stations, FM transmitters and transmission lines. The firm will become the RF transmission distributions systems department of the Ampex audio/video communications division.

General Electric's Visual Communication Products has transferred its Industry Relations Operation from Syracuse, N.Y., to Washington, D.C. The move was designed to strengthen liaison with FCC consulting engineers and attorneys, government agencies, and trade and professional groups. John Wall, who has been closely associated




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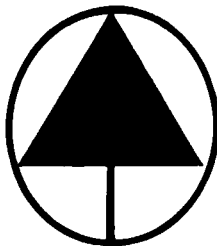
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When we were Pathe Laboratories, New York, Color Service Company, Alexander Film Laboratories and Pathe Laboratories, Hollywood, we were, individually, pretty darn good. But now . . . we're Perfect! Seriously, what we're saying is that we are not four independent laboratories with a new corporate name, but a "system" of four interdependent labs — all working together — with the advantage of possessing the finest overall new facilities in America!

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with GE's broadcast equipment business, will continue as manager of the operation.

Raytheon Education Company has leased a 48,000 ft² building in the Industrial Park of Nashua, N.H., to supplement its 120,000 ft² plant located on the Everett Turnpike. Raytheon manufactures Macalaster science learning apparatus, closed-circuit television systems, student response systems and driver training equipment for schools and colleges. It also publishes D. C. Heath textbooks. The expansion is the third in the past three years. Among kits and apparatus manufactured at Nashua are those for use with the D. C. Heath Science Series and curricula developed by such groups as the Physical Sciences Study Committee, Introductory Physical Science, American Association for the Advancement of Science and the Minnesota Mathematics and Science Teaching Project (Minnemast).

Movielab, Inc., 619 W. 54 St., New York, N.Y. 10019, is presently integrating its black-and-white and color divisions into one unified operation, according to an announcement by Saul Jeffee, Movielab President. Purpose of the integration is to increase efficiency and service to customers, Mr. Jeffee said. The change has brought about a realignment in executive assignments. Frank S. Berman, Executive Vice-President, and Norman Rinehart, Jr., Vice-President, will be in charge of customer service and of production scheduling; Peter P. Cardasis, Vice-President, will be in charge of manufacturing. John J. Kowalak will continue to serve as Vice-President and Director of Technical Operations, Ben Bloom as Vice-President of Sales and Marketing, and Dan Eisenberg as Vice-President in charge of finance and administration.

Movielab, Inc., 619 W. 54 St., New York, N.Y. 10019, has installed a radio dispatch pickup service for the convenience of its customers. Its trucks are now equipped with short wave, two-way radio so that the drivers can send and receive messages from the laboratory and from truck to truck.

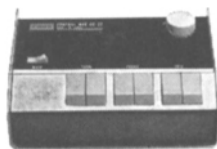
Berkey-ColorTran, Inc., has opened new sales offices at 600 S. Michigan Ave., Chicago, Ill. 60605. Bill Gleaves, Midwestern Marketing Manager for Berkey-ColorTran, is in charge of the new facility, which will display tungsten-halogen quartz lights and solid-state dimming control systems. Headquarters of the firm are in Burbank, Calif.

Calvin Productions, Inc., 1105 Truman Rd., Kansas City, Mo. 64106, has announced an expansion of its facilities for 8mm and super 8 reduction printing and processing, magnetic or optical sound. At present Calvin is one of the very few firms equipped for super 8 optical sound processing. The firm has offered 8mm reduction printing commercially since 1961 and has planned further expansion in this area.

Gordon Enterprises Rental Division has established new headquarters at 1430 Cahuenga Blvd., Hollywood. The new facility covers 25,000 ft² and rental services will be maintained for all types of professional motion-picture cameras and acces-



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and fixed focal length optics for Vidicon, Plumbicon, and Image Orthicon cameras. They're all designed with optical specifications equal to Canon's unsurpassed photographic standards, so our Vidicon lenses can also be used on 16mm motion picture cameras.

Write for complete information on Canon TV optics: Canon U.S.A., 550 Fifth Avenue, New York, N.Y. 10036.



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sories. A new lighting division, headed by Jack Horne, will be established at the new headquarters.

ITV Inc. has opened a new regional office at 101 Industrial East, Clifton, N.J. The firm specializes in the design, construction and installation of closed-circuit television and video-tape recording systems. The new office will specialize in the designing, fabricating and servicing of all audio-video communications systems. It contains an equipment display area, a television studio and video-tape duplicating center. Head of the new regional office is Steve Zahorian.

Instrumentation Marketing Corp., of Burbank Calif., has established a permanent sales office at 1608 Forest Glen Rd., Silver Spring, Md. The firm was recently established to provide sales and service for specialized photoinstrumentation manufacturers. The new office will be managed by Vince Koenig.

A means of making the English language comprehensible to computers is being studied in the University of Illinois Biological Computer Laboratory. At present there are a number of computer languages, such as FORTRAN, ALGOL, MAD and COBOL, but a computer cannot respond to the spoken word. The problem is complex because to understand the spoken word the computer must be insensitive to volume, rate of speaking, and, to some extent, regional accent. Traditional methods of

studying speech break each word into sets of discrete frequencies that can be examined separately. A sonogram provides a visual record of the duration and relative intensities of the frequencies that comprise the spoken word.

A processor has been developed at the University of Illinois which divides a word into 12 frequencies. Each frequency is examined electronically and a sequence of numbers corresponding to its intensity and duration is generated. Within the sequences are smaller sequences which are the same, independent of the speaker, and to some extent of pronunciation. The smaller, invariant sequences are decoded to make the word understandable to the computer. A second system now being studied is based on the fact that words travel as pressure waves in air. The initial part of a wave lasts only a few thousandths of a second but contains nearly all of the information which identifies the vowel sound of the syllable. Analysis of the rapid changes in wave pressure could reveal the characteristics which allow the ear to distinguish words.

A voice encoder (vocoder) developed in the Applied Research Laboratory of Sylvania Electric Products Inc., 730 Third Ave., New York, N.Y. 10017, has been used in the creation of an electronic music composition, "North American Time Capsule — 1967" by Alvin Lucier. Mr. Lucier, who directs the chorus of Brandeis University, said that his composition is a blend of speech, singing and instrumentation pro-

cessed by the vocoder. To make the recording the vocoder modified vocal and instrumental sounds fed into it by members of the Brandeis chorus. Distortions produced by mixing the tones form the elements of the electronic composition. "North American Time Capsule — 1967" is one of seven electronic compositions by modern composers in an album which will be released by Columbia Records.

Solid-state flying spot scanning equipment was exhibited by Rank Cintel of the Rank Organisation, Bessemer Road, Welwyn Garden City, Herts, England, at the International Broadcasting Convention held last fall in London. Equipments exhibited included the Cintel Mark VIII Broadcast Slide Scanner, the Mark I Broadcast Opacity Scanner and the 16mm Colour Film Scanner. The Mark VIII generates video signals from color or black-and-white 35mm transparencies on 405-, 525- or 625-line standards. It has a capacity of 60 slides which can be selected in sequence or at random with broadcast facilities of preview, cut, mix and fade. The Mark I views 12- by 9-in. color or black-and-white caption cards or a roller caption and generates red, green, blue signals on 405-, 525- or 625-line standards. The 16mm color film scanner generates color or black-and-white pictures with sound from 16mm film. The equipment is arranged in a suite consisting of a scanner and mechanism cubicle, together with a combined desk and console which contains the video processing, control and monitoring facilities.

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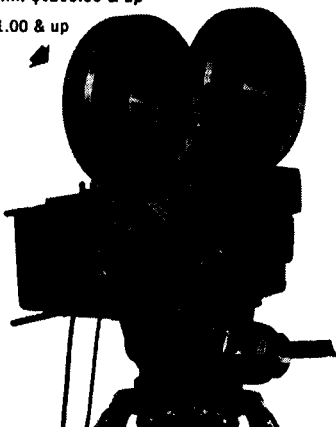


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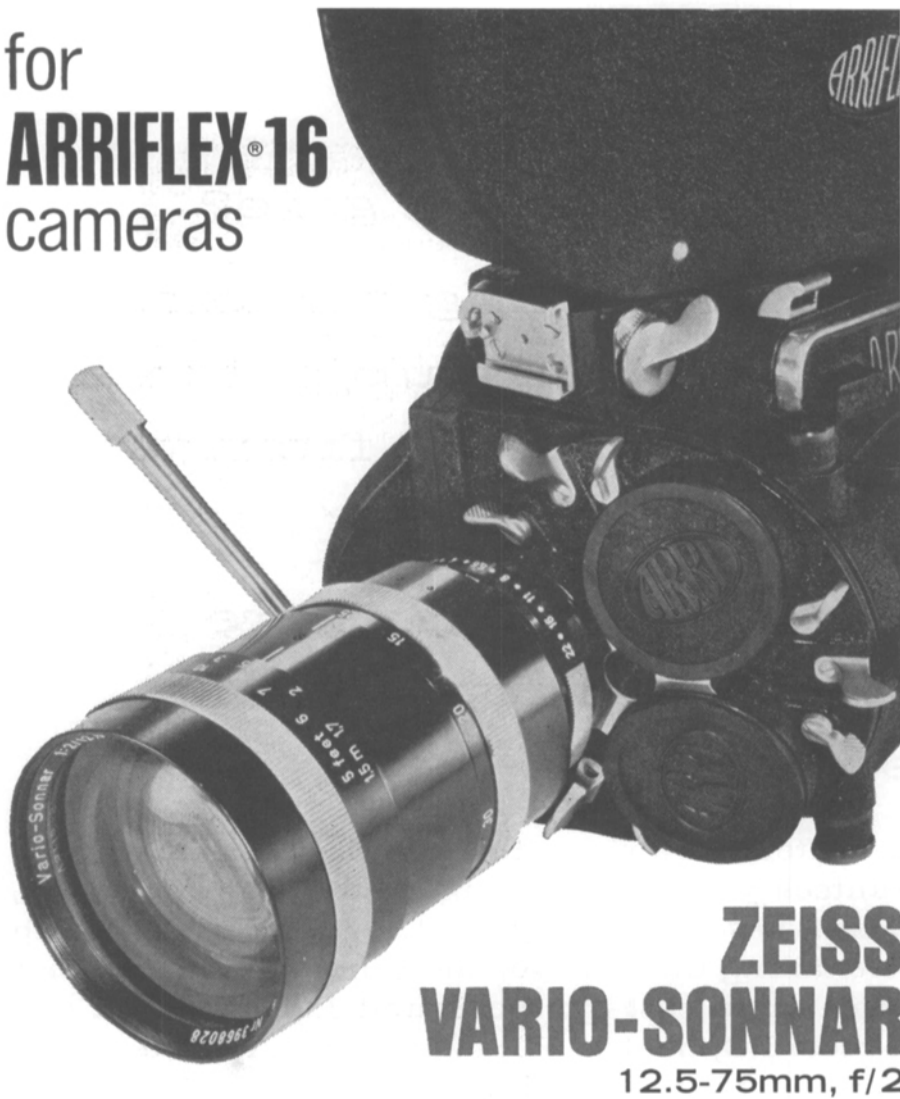
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The SEC television camera tube developed by Westinghouse Electronic Tube Division (*Journal*, p. 1167, Nov. 1967) has been used for research in astronomy to study dim, faraway objects in the universe, such as stars and nebulae. The SEC television camera is installed on the 30-in. refracting telescope at the Allegheny Observatory at Pittsburgh University. The camera converts invisible light into an electric signal and amplifies it many times before changing it back into a visible image. Also, over long periods of time, the tube builds up even weaker light signals into bright images. This process is called integration. In the astronomical studies, the SEC camera was first operated at the normal television scanning rate of 30 frames/s. Then, to observe faint objects, the system was switched to the "integrate" mode for periods of from 10 to 120 s. After the desired integration time, the strengthened image was read out within one or two frames (1/30 to 1/15 s) as a bright transient picture on the television screen. During this period of bright display, a photograph of the distant object was made from the face of the television monitor.

Holograms of large, motionless objects that appear three-dimensional may be achieved as the result of a laser technology developed at RCA Laboratories, Princeton, N.J. A technique has been devised for purifying the light produced by an argon laser to essentially one wavelength, which assures that it will remain coherent over long distances. In purifying the spectrum of an argon laser, an electronically-controlled three-mirror interferometer is used in place of the reflecting mirror ordinarily used at one end of the laser. In effect, the interferometer converts the various light frequencies generated in the laser to a strong, single-frequency beam. The single-frequency output makes possible holograms of increased object size and depth of field.

Single laser pulses lasting about one picosecond can be measured accurately by means of a new technique developed at Bell Telephone Laboratories. The technique is based on a phenomenon known as two photon absorption. In the new technique, the pulse is reflected at a mirror immersed in a clear organic solution. The solution's molecules are such that they emit light by radiating a photon after absorbing two photons from the laser pulse. The resulting intense fluorescence from the release of a large number of photons in the area where the pulse overlaps itself clearly illuminates the pulse as a short bright region near the mirror. The pulse, usually 1/100 in. in length is recorded photographically—one of the briefest events yet photographed. By measuring the fluorescent region in the photograph and relating its length to the speed of light, it is possible to find the time duration of the pulse. The photograph is taken by placing the camera in a darkened room and exposing a sensitive film to the fluorescing region.

C. J. Bartleson has joined Macbeth Corp., Newburgh, N.Y. 12550, as Vice-President and Director of Research. Previously he was in charge of research on visual psychophysics in the Research Laboratories of Eastman

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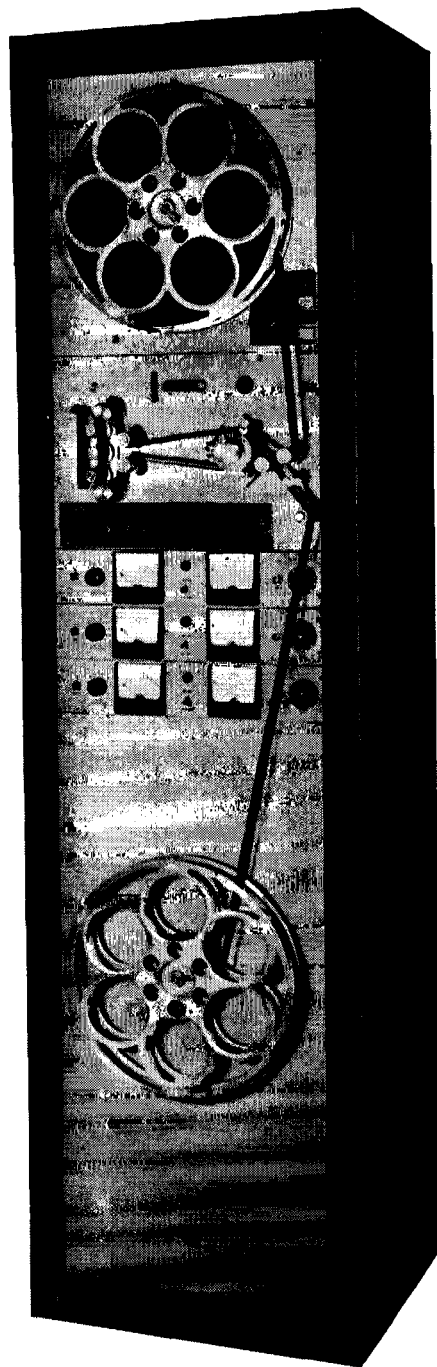
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February 1968 Journal of the SMPTE Volume 77

157

Kodak Co. Mr. Bartleson has worked with the phenomena of color, its reproduction and perception, for nearly 20 years. In addition to conducting and directing original research in vision, perception, and color science, he has been involved in the application of fundamental research in photographic and photomechanical reproduction, colorimetry, radiography, illumination, display and visual aids, television, information display and physiological optics. He is the author of two books on color and has another book currently in preparation.

Warren B. Reese has been elected President of Macbeth Corp. and has also been appointed a director of Kollmorgen Corp. He was previously Executive Vice-President of Macbeth Corp. with which he has been affiliated for 17 years. Known as an expert on color, Mr. Reese has lectured widely on the psychophysical phenomena of color.

Allan L. Sorem, head of the aerial photography laboratory at Kodak Research Laboratories, has been appointed coordinator of product planning and technical service, Aero and Bimat Film Products. Mr. Sorem joined Eastman Kodak Co. in 1948 as a physicist in the sensitometry department of the Research Laboratories. In 1958 he became a research associate and was assigned to the military photography department. He became head of the department in 1960.

Sam Wiesenthal has been appointed to the newly created position of Executive As-

stant to the President, it was announced by Superscope, Inc., 8150 Vineland Ave., Sun Valley, Calif. 91352. In the new post he will be responsible for the coordination and administration of several of the company's operating departments, including office management, internal communications and personnel. He was formerly President of Olympic Productions.

David Marshall Stern has been appointed Director of Engineering and Production for Mitchell Camera Corp., Glendale, Calif., manufacturers of cameras used in professional cinematography and for scientific and military photography. He formerly served in an executive capacity with the Aerospace Tube and Scientific Apparatus activities for ITT. Earlier, as an official of Gordon Enterprises, North Hollywood, Mr. Stern assisted in the development and special timing devices for use with X-15 flights. He has also designed photographic equipment for airborne, submarine and other maritime uses in addition to night vision components and systems for military applications.

Frank L. Flemming has been appointed Chief Engineer for Visual Electronics Corp., 356 W. 40 St., New York, N.Y. 10018; and Herbert Nettleton has been appointed Manager, Information Handling Systems. Mr. Flemming's primary responsibilities will include the coordination of technical engineering activities of the several groups and divisions of the firm. He was formerly

Director of Plant Systems Engineering at CBS. Mr. Nettleton will direct Visual's expansion in the information and visual display systems field. He was formerly Director of Marketing and Sales for TelePrompster Corp. and Telepro Industries.

Gus Bozinos has been elected Vice-President of Permafilm, Inc., 257 Park Ave. South, New York, N.Y. 10010. He has been with the firm for 12 years and formerly held the post of General Manager.

Five new appointments have been announced by Reeves Sound Studios, 304 E. 44 St., New York, N. Y. 10017. Jack C. Shultis has been appointed editing supervisor and William F. Edwards has been appointed mixing supervisor in the Video Department. David H. Quam has been named night operations supervisor; Joseph A. Kiss has been placed in charge of video plant maintenance; and Arthur R. Guth has been named Airmobile-Video System supervisor. All the men have had extensive experience in video-tape recording.

Michael R. Brooks has joined Reeves Sound Studios, 304 E. 44 St., New York, N.Y. 10017, as Assistant Director of Video Operations. He was formerly Production Manager for the Public Affairs Div. of National Educational Television. Prior to working with NET, Mr. Brooks was a unit manager with National Broadcasting Co. and Production Manager for Seven Arts and ABC-TV films.

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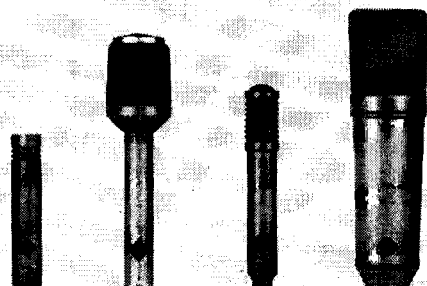
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Wilbur G. Buckner has joined Linair Engineering, a Teledyne Company, Gardena, Calif., as Project Engineer. Initial assignments will involve responsibility for brazed fittings and flexible fluid tubing programs. He was formerly with the Metal Components Div. of the Deutsch Company, Los Angeles, where he supervised development and design efforts on swivel fittings and related components. He holds a number of patents and patent applications; recent ones include applications on swivel fittings and coupling nuts.

Donald B. Davis has been elected Western Vice-President of the Audio Engineering Society. Mr. Davis is Manager of Acoustavoicing for Altec Lansing, Anaheim, Calif., and is the author of *Acoustical Tests and Measurements* and co-author (with Alexis Badmaieff) of *How to Build Speaker Enclosures*.

Thomas L. Pincu has joined Berkey-Color-Tran, Inc. (a division of Berkey Photo Inc.), Burbank, Calif., as Western Marketing Manager. He was formerly a sales engineer for Century Lighting Co. and has had extensive experience in television, theatrical and architectural lighting.

Promotion of two corporate officers to newly created positions has been announced by Jerome S. Coles, President of Philip A. Hunt Chemical Corp., Palisades Park, N.J. 07650. John R. Bonniwell has been elected Vice-President. He was formerly Vice-President of Sales. He has been with the firm for 26 years and was elected to the Board of Directors in 1965. Charles F. Belmont has been elected Senior Vice-President. He was formerly Vice-President of Product Development and was also elected to the Board of Directors in 1965. He has been with the firm for 20 years.

Robert W. Corrigan, Dean of the School of Arts of New York University, has been named the first President of California Institute of the Arts, 1670 Wilshire Blvd., Los Angeles, Calif. 90017. A new 60-acre campus is now under construction at Valencia, Calif. The campus will have accommodations for 1,500 students and will be ready for occupancy in 1970. The Institute will combine schools of Art, Design, Music, Theater, Film and Television.

Richard M. Blanco, Vice-President of Technicolor, Inc., has been elected to the Board of Directors of the Diabetes Association of Southern California. The association is a nonprofit voluntary group organized to

help those suffering from diabetes and for the timely discovery of new cases so that medical treatment can be promptly undertaken.

C. Alan Lindquist, Jr., has been appointed Project Manager, Coated Abrasives, for the Pfizer Minerals, Pigments and Metals Division's research center at Easton, Pa. Headquarters of Chas. Pfizer & Co. are at 235 E. 42 St., New York, N.Y. 10017. In his new post, Mr. Lindquist heads a program for developing and producing a new line of ultra-fine grit-coated abrasives for use in the electronic, metallurgical and optical industries. He was formerly with Greentree Electronics Corp. of Costa Mesa, Calif. He is the author of a number of papers and articles on ceramics, magnetic tape recording and electronics.

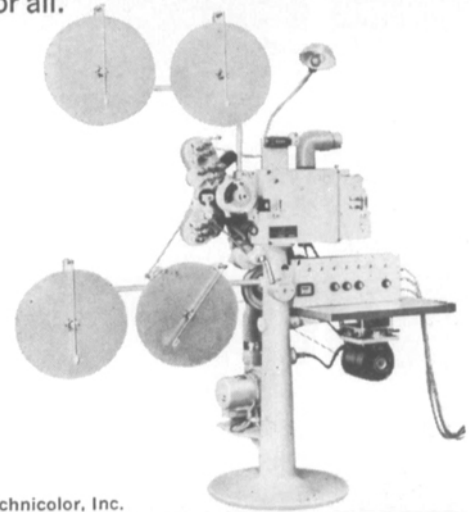
Louis J. Maltese has been appointed Sales Manager for Manhattan Sound Studios, 460 W. 54 St., New York N.Y. 10019. In his new post Mr. Maltese will be head of sales activities for the Manhattan Sound Studios complex, including Manhattan "54" and Manhattan "45". He was formerly Sales Manager for Murlyn Recording which was acquired by Manhattan Sound Studios on November 1.

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