

## 103rd SMPTE Technical Conference Program



**Alan M. Gundelfinger**, Motion Picture Division, Technicolor Corporation of America, 6311 Romaine Street, Hollywood, Calif. 90038, has been appointed Program Chairman for the 103rd SMPTE Technical Conference. The Conference will be held at

the Century Plaza Hotel in Los Angeles, May 5-10 1968.

In his many-faceted job of organizing the Conference program, Gundelfinger will work with SMPTE Papers Committee Chairman Allan L. Williams, Eastman Kodak Company, Rochester, N.Y.; Editorial Vice President Rodger J. Ross, Canadian Broadcasting Corporation, Toronto; and Conference Vice President E. B. (Mike) McGreal, Producers Service Company, Glendale, Calif.

Gundelfinger is now planning the Conference sessions and format, and choosing the topic chairmen who will assist him in soliciting papers and organizing the sessions. A list of topic chairmen and the call for papers will appear in the November *Journal*.

## Biographical Note



### Victor A. Babits

Victor A. Babits, an internationally known educator and scientist, has entered practice as Research Management Consultant. Dr. Babits was born in Budapest, Hungary, in 1900, and became a citizen of the United States in 1953 and during that same year he became a member of the Society. He was graduated from the University of Technical Sciences in Budapest in 1923 with the degree of Master of Science in Electrical Engineering and in 1931 he was granted the degree of Doctor of Engineering Sciences. In 1938 he received the degree of Docent from the same University where he taught in the Institute of

Physics until 1947. He also served as Judge, and Supreme Court Justice in the Royal Hungarian Patent Court from 1938 to 1947. He came to the United States in 1947 where he held the post of Professor of Electrical Engineering until 1960 when he joined the Convair Division of General Dynamics as Manager of Research, a post he held until his retirement from General Dynamics in 1965. He is the author of numerous technical papers and holds a number of foreign and U.S. patents.

In 1926 he invented a television system using the rotating mirror drum scanner and the Kerr cell rotating mirror drum receiver. In 1953 he designed a pickup tube using a semiconductor target deposited on a transparent and electrically conductive substrate. He has done pioneer work on various color television systems and in 1964 he invented a laser demodulator and IF amplifier.

He is a member of a number of professional organizations, other than the Society, including the Royal Television Society (England), Institute of Electrical and Electronics Engineers, American Association for the Advancement of Science, Institution of Electrical Engineers (London) and the British Interplanetary Society. He holds the rank of Fellow in these five organizations.

Dr. Babits' new offices are at 27622 Longhill Drive, Palos Verdes Peninsula, Calif. 90274.



**Highlights of the University Film Producers Association (UFPA) 21st Annual Conference**, held in August at the University of South Dakota, included presentation of awards in the first annual motion-picture scholarship competition sponsored by the McGraw-Hill Book Company. The competition is open to graduate students in motion-picture in UFPA-affiliated university film departments. First prize of \$1,000 went to Ted Perry of the University of Iowa who is working for a Ph.D. degree in film history and criticism. Second prize of \$500 went to Ali Issari of the University of Southern California who is working for the M.A. degree.

Other events included an address by George Stoney, the motion-picture documentarian, and the presentation of student productions including a multi-media, multi-screen presentation on Japan prepared by University of Iowa graduate students, Don Pasquella and Mike McKaie. Images were projected on seven screens and audio tracks were on three separate channels.

Papers were presented, including "Film Budgeting and Financing," by William A. Drake of Ohio State University; "Audio-Visual Service in a Liberal Arts College," by J. Blair Watson of Dartmouth; "Films of Clement Perron," by Stewart Selby of the University of Saskatchewan; "Changing Role of the Director," by Donald Brittain of the Film Board of Canada; "A New Approach to Teaching Film History," by Howard Suber of the University of California, Los Angeles; "Foreign Film Teaching," by Richard Goggin of New York University; "Film Education in American Catholic Schools," by Father Ronald Holloway of the Chicago Center for Film Study; "History and Research Resources of the Library of Congress," by John Kuiper of the Library of Congress; "A Structured Approach to the Teaching of Film Production," by Peter Dart of San Francisco State Teachers College; and "A Liberalized Approach to the Teaching of Film Production," by Ted Perry of the University of Iowa. Kemp Niver of the Renovare Company of Los Angeles presented a premiere of rare historical films which are restored from the paper negative collection of the Library of Congress. John Flory reported on CINE and Ray Shady of Eastman Kodak Co. reported on the Eastman Kodak Teen-Age Film Contest Awards.

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**The Broadcasting Group** of the Institute of Electrical and Electronics Engineers will hold its Western Conference on Broadcasting November 9-10 at the Ambassador Hotel in Los Angeles. Papers to be presented will cover such areas as interference-producing ground coupling, laser communications, satellite broadcasting, antenna design, color TV and CATV. Program Chairman is E. H. Schreiber. The Local Chairman is E. Dale Barcus, 188-D Avenida Majorca, Laguna Hills, Calif. 92653. Further information is also available from Russ De Baum, National Broadcasting Co., 3000 W. Alameda, Burbank, Calif. 91503.

**CINE (Council on International Non-theatrical Events)** has announced the establishment of an Advisory Council and the election of its first three members. The three members are: Jay Carmody, retired Washington film critic; Judith Crist, New York drama and film critic for NBC's *Today Show*; and Louis Hazam, NBC News film producer and director, Washington. Ralph P. Creer, CINE Vice-President and film head for the American Medical Assn. in Chicago, has been appointed coordinator for the Advisory Council by Alden Livingston, CINE president. CINE headquarters are located at 1201 Sixteenth St., N.W., Washington, D.C. 20036.

**Discover America**, the United Air Lines film, filmed in aerospace by Reid H. Ray Film Industries, Inc., 2269 Ford Parkway, St. Paul, Minn. 55116, has been entered by CINE in four foreign film festivals: Brussels XVII International Week of Films on Tourism and Folklore; Lisbon (Portugal), Spain VIII International Industrial Film Festival; Trento, Italy, Festival; and the Cork International Film Festival. In addition to the festival showings, Paramount Pictures is distributing the 46-min color film in theaters in the United States.

Meanwhile, CINE announced that seven U.S. nontheatrical, short subject and television documentaries have been given top awards in the Venice Film Festival, Rome's Television Film Festival and the Moscow Film Festival. The award-winning 1966 film, *Skaterdater*, received a silver medal at Moscow. *The Kennedy Wit* (Dolphin Enterprises) and *Next — The Men* (Hughes Aircraft Co.) received top awards at Rome. *River Boy* (Backlar-Black) received the Lion of St. Mark at Venice. The Plaque Lion of St. Mark went to *Human and Animal Beginnings* (Wexler Film Productions), *The Hidden World* (National Geographic Society and Wolper Productions) and *The Pink Blueprint* (DePatie-Freleng Enterprises).

**G. Carleton Hunt**, President of DeLuxe Laboratories, Inc., and C. W. "Chuck" Vitello, President of Motion Picture Laboratory Technicians, Local 702, IATSE, are co-chairman of Tribute to the Laboratory Technician, an observance timed to coincide with the 30th anniversary of the founding of the laboratory workers union. A series of events, planned in recognition of the contributions made by laboratory technicians to the motion-picture industry, will culminate with a dinner dance at the New York Hilton on May 18, 1968.

**The Independent Television Authority of Great Britain** has signed a contract with Pye TVT Ltd., of Cambridge, for installation of 25 sets of transmitting equipment for the ITA duplicated 625-line UHF service. Installation will begin in January 1969 and the first three stations to be equipped under the contract will start monochrome transmissions in the late summer of 1969, going over to color as soon as possible. The remaining 22 stations will be brought into service successively up to the end of 1971. All this equipment will be used for the transmission of the ITA color service, which is planned to open early in 1970.

The transmitters will be automatically controlled and unmanned and will be installed in pairs connected in parallel. The contract covers 12 pairs of 25-kW transmitters, 10 pairs of 10-kW output and three pairs rated at 6.25 kW.

Pye TVT has recently completed the installation of a UHF television station on Mount Rigi, near Zurich, for the Swiss PTT.

**IKM Industries of Chatsworth, Calif.**, has been acquired by Republic Corp. of Beverly Hills according to terms of an agreement between the two companies. The purchase will be made for an undisclosed amount of Republic common stock.

IKM, formed in 1966 by three former members of Litton Industries management and technical staff, develops and manufactures high-speed optical scanning equipment for computer systems and for automation systems in the telephone and industrial fields. President of IKM is P. J. Icenbice, Jr. Frank R. Moothart is Vice-President and Harold Kridler is Vice-President and Secretary. IKM will be operated under its present management as an independent division of Republic.

Republic Corp. is a multi-dimensional company operating various enterprises in the electronics, information technology, plastics, film processing and household equipment fields.

**Riker Video Industries, Inc.**, Hauppauge, N.Y., has acquired Richmond Hill Laboratories, Ltd., and Leitch Research and Development, Ltd., both of Toronto, Canada. The latter firm is headed by James A. Leitch, one of the original founders of Riker Video, who will continue as President of Leitch Research and Development. James Norman Cox will continue to head Richmond Hill Laboratories, Ltd. This is the fourth recent acquisition of Riker Video. Earlier acquisitions are ITv, Inc., of New York, and Continuous Progress Education, Inc., of Norwalk, Conn., a firm which specializes in the design, manufacture and installation of audio-video communications systems used by educational institutions. Riker also operates Semi-Elements, Inc., as a wholly-owned subsidiary. The firm supplies single crystals and chemicals as well as laser and maser materials.

**Listec Television Equipment Corp.**, 35 Cain Dr., Plainview, N.Y. 11803, has been appointed sole representative in the United States for all Vinten television equipment manufactured by W. Vinten Ltd., Western Way, Bury St. Edmunds, Suffolk, England.

Vinten equipment was formerly handled by Mitchell Vinten Inc. of Glendale, Calif. Listec is now responsible for the importation, sales and service of all Vinten equipment.

**Berkey/ColorTran Inc.** has opened a new studio, showroom and offices at 322 E. 45 St., New York, N.Y. 10017, it was announced by Joseph N. Tawil, Eastern Marketing Manager. The new facility provides a complete working studio, 35 by 25 ft, completely equipped with ColorTran lights.

**The Vidtronics Division of Technicolor** has announced availability of a mobile color video-tape production unit which, together with the division's automated post-production editing service, is said to provide a complete system for shooting on video tape and telecasting both from tape and from color film prints made by the Vidtronics tape-to-film transfer process. The mobile unit is equipped with two electronic cameras and taping machines and initially is exclusively for the shooting of television commercials. The Technicolor Vidtronics facility at 823 Seward St. in Hollywood has been expanded to accommodate new equipment to provide completely automated post-production A and B roll editing.

**Two new Calvin companies** have been formed to rent, lease and sell photographic and audio-visual equipment. They are called Calvin Cinequip, Inc. (C.C.I.), and are located at the facilities of Calvin Productions, Inc., at 1105 Truman Rd., Kansas City, Mo. 64106; and 1909 Buttonwood St., Philadelphia, Pa. 19130. Because of many requests for advice about photographic equipment and rental of cameras and other equipment on an informal basis, it was decided to set up these two new companies to rent equipment on a daily, weekly or lease basis. The equipment will also be available for direct sale.

**Advanced color viscous processing techniques** will be developed under a contract awarded to Itek Corp., Lexington, Mass. 02173. The contract, with the Air Force System Command's Avionics Laboratories at Wright-Patterson AFB, includes the formulation of viscous processing chemistry for the development of Ektachrome aerial film. The program also involves the study of various viscous application and removal techniques.

**L-W motion-picture projectors** are now available from Eastman Kodak dealers, according to terms of a recent agreement. The new marketing arrangement was made by Marvin Hodges, Director of Sales Development, Education Markets Div., Eastman Kodak Co., and R. H. Lawrence, President of L-W Photo, Inc. L-W projectors to be sold through Eastman outlets are the Model 800 Super Sports Analyzer for viewing football and general sports films; the Model 900 Motion Analyzer for industry; the Athena Analytical Sound Projector and the Athena Model 1900 for broadcast and closed-circuit TV use. All are Eastman Kodak units re-engineered by L-W Photo for flickerless, stop-motion projection.

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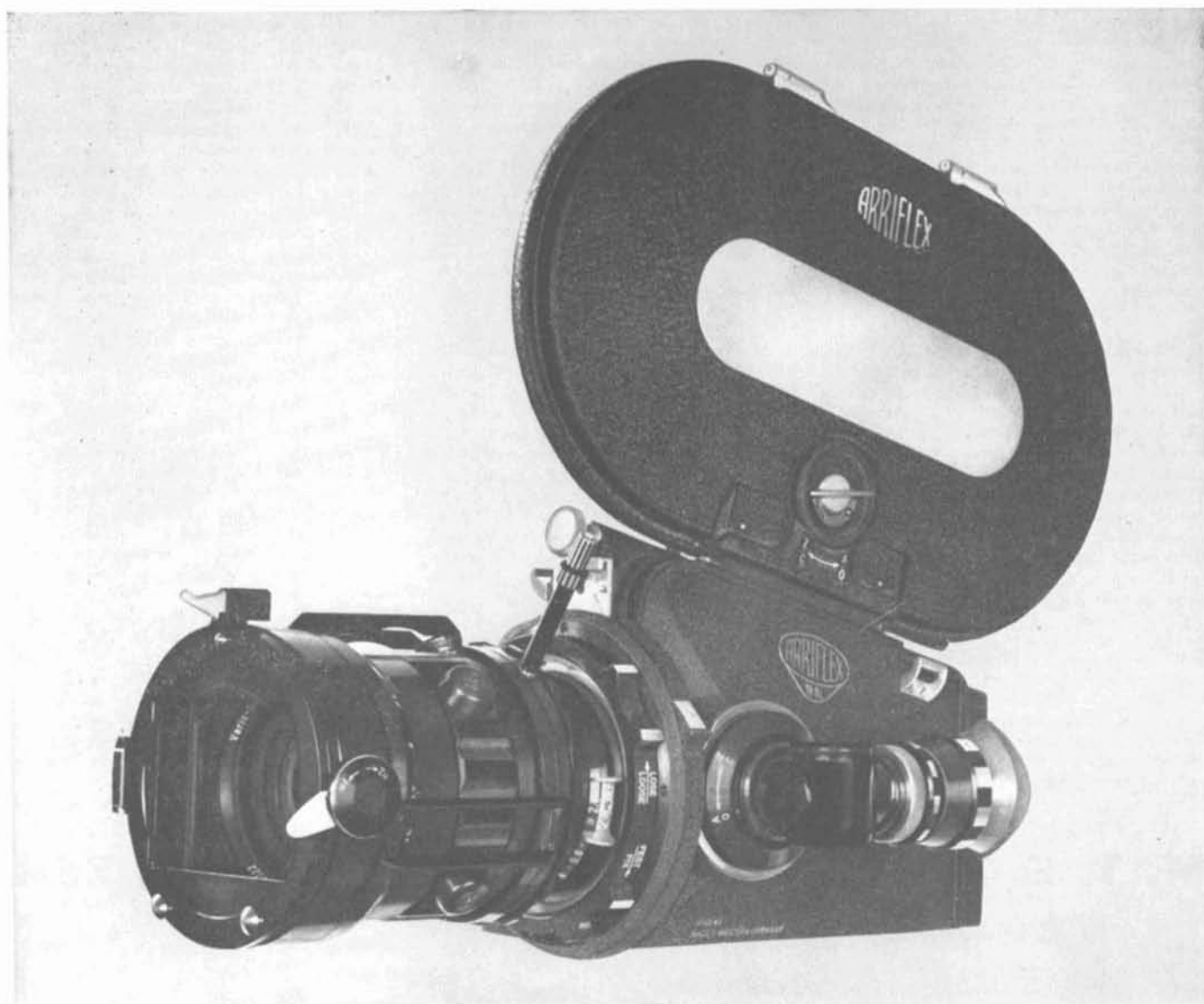
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**Construction of two new buildings in Detroit** has been announced by Wilding, Inc., 1345 Argyle St., Chicago, Ill. 60640, producers of industrial motion pictures and stage shows. A three-story glass and steel structure will house the Detroit sales and film production facilities, currently occupying two separate buildings. The second building will house Tri-Dex, Wilding's display, exhibit and scenery production division. Containing 66,000 ft<sup>2</sup> of floor space, the building will include 1,500 ft<sup>2</sup> of stages for photographic production in motion, slidefilm and graphics.

**Formation of a new firm, Willard & Harvey**, has been announced by Frank Willard, head of Frank Willard Productions, 1842 Briarwood Rd., N.E., Atlanta, Ga. The new firm will provide audio-visual and related public relations services. Principals of the new company will be Mr. Willard and John Harvey, who was formerly General Public Relations Manager for the Bowater Organization's production units in the United States. Mr. Willard has produced a number of award-winning non-theatrical films.

**Gain in avalanche photodiodes** can be increased by factors of between 10 and 100 through a new method announced by Bell Telephone Laboratories. Improved performance is obtained by superimposing an ac voltage on the dc voltage, which is the same or slightly higher than the normal dc

voltage, used to bias the diodes. The ac voltage prevents premature avalanches by quenching the microplasmas (local flaws in the diode where small areas of intense ionization occur). Application of ac voltage to "uniform" diodes (those without microplasmas) has also produced a noticeable improvement in performance. Because microplasmas now can be quenched, the production yield of useable silicon and germanium photodiodes is expected to increase, especially for large area diodes where microplasmas are more difficult to avoid.

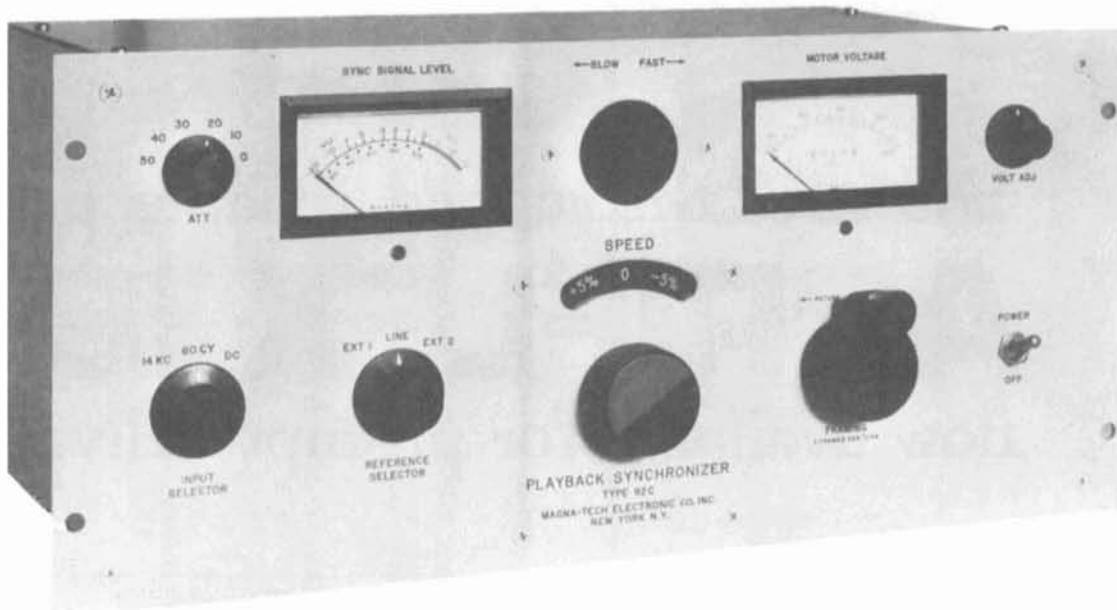
**A miniature (2-lb) television camera** has been developed by Radio Corp. of America for possible use in space exploration. Lens of the camera measures 6 $\frac{3}{4}$  × 3 × 1 $\frac{1}{2}$  in. Key features that make possible the camera's compact size and reduced weight are extensive use of integrated circuits and RCA-developed improvements in design of the deflection and focus coil. Other design features include discrete components and a  $\frac{1}{2}$ -in. vidicon. The camera has a 600-line resolution and operates on the slow-scan principle.

**Management Telecommunications Systems, Inc.**, is a new firm specializing in international and interstate video display systems and other electronic techniques for the solution of management communications problems. President of the new firm is Mark Foster, formerly Managing Direc-

tor of TNT Communications International. Initially the firm will be divided into two major divisions: Amphicon Systems, Inc., Norwood, N.J., and Management Communications Network, 2 W. 45 St., New York, N.Y. Amphicon manufactures and markets electronic display equipment, such as billboard-size television in monochrome or color for local or long distance closed-circuit telecasts; Datavision Display, which can be linked to computers; multi-screen Teleprojection; and electronic training devices. Management Communications Network will provide facilities for various forms of electronic presentations and conferences, such as writing, programing, production and network coordination for multicity closed-circuit meetings.

**A central office billing system** that can be inserted into a CATV network to provide for both pay TV and audience rating has been developed by Campbell and Campbell, Scientists and Engineers, 17631 Palora St., Encino, Calif. (U.S. Patent No. 3,255,306, June 7, 1966.) The system is based on a device called a program selector unit which is linked to the subscriber's television set and the source of the TV signals. Subscriber-program identification signals are generated in these units and the signals are recorded in the central office and then analyzed for billing purposes. No additional transmission lines are required for this system and the subscriber is not required to drop coins in a box or to mail punchcards to the billing office.

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**National Zip Code Directory** which lists over 35,000 U.S. Post Office zip codes is available from Zip Code Publishing Co., Inc., 7426 W. Capitol Drive, Milwaukee, Wis. 53216. It is priced at \$1.00 plus 25 cents for handling and postage. The book, which measures 6 by 10 in., paperbound with a red, white and blue cover, lists zip codes for all the main postoffices in the United States and also lists multi-coded cities. Official two-letter abbreviations of States are listed on the back cover.

**The depth-of-field of holograms** has been increased to four feet through a technique developed at Bell Telephone Laboratories. Previously, the practical limit with normal exposure times was about a one-foot depth-of-field. The increased depth-of-field was obtained by splitting the illuminating laser

beam successively several times and lighting different sections of the subject with different portions of the beam. Each of the "split" illuminating beams travels the same distance and reaches the plate at the same time. In this manner the coherence length "sees" different parts of the subject and the depth-of-field is multiplied by the number of times the beam is split. Holography is being studied at Bell Laboratories for possible use in storage and retrieval of information for switching, data transmission, and other communication applications.

**Arthur J. Miller** has resigned as Vice-President of Du Art Film Laboratories. He had been with Du Art for eight years. From 1956 to 1959 he was Vice-President of Pathe Laboratories. From 1932 to 1955 he was associated with Consolidated Film Industries (Republic Pictures Corp.) At the time of his resignation in 1955 he was Vice-President in charge of the East Coast laboratory operations and a Director of Republic Pictures. He is a Past President of the Association of Cinema Laboratories and a Fellow and Governor of the Society. In announcing his resignation, Mr. Miller said that he planned a vacation after which he will announce his future plans.

**Barton Kreuzer** has been appointed Division Vice-President and General Manager, RCA Broadcast and Communications Products Div., Camden, N.J. He succeeds Charles H. Colledge who is retiring after a 34-year career with RCA. Mr. Kreuzer

joined RCA in 1928 after graduating from Brooklyn Polytechnic Institute with a degree in Electrical Engineering and has held various engineering and executive positions within the organization. In 1958 he joined the Astro-Electronics Division as Manager of Marketing and later became Division Vice-President and General Manager of the Astro-Electronics Division, Princeton, N.J. While he was with that division he directed such activities as Project Score, the Atlas "talking satellite," and the Ranger lunar exploration mission. During his tenure, the TIROS weather satellite program was developed in which 15 operating satellites were launched without a failure. More recently Mr. Kreuzer guided RCA's part in the Lunar Orbiter Program.

In his new post he will supervise production of studio and transmitting equipment for radio and television broadcast stations and networks. The Broadcast and Communications Products Div. also markets the RCA electron microscope and closed-circuit TV and audio-visual products for education.

**Dr. Hans Kuhn**, Professor of Physical Chemistry at Philipps University, Marburg, Germany, and Dr. Dietmar Möbius, an instructor at the university, have joined Kodak Research Laboratories in Rochester, N.Y., for a five-month study program. They will conduct fundamental research of energy transfer in photographic systems. The scientists, who are on leave from the university, are at Eastman Kodak Co. as part of a

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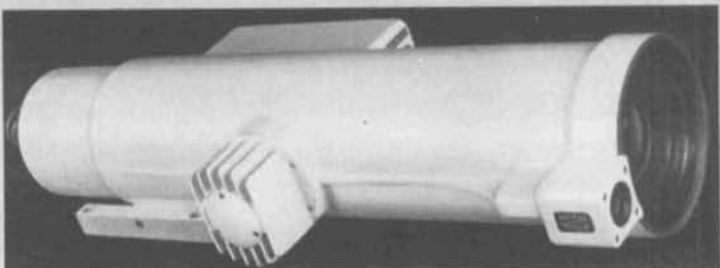
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program to exchange scientific data relating to photographic theory.

**Gilbert J. Pendley** has been appointed Field Engineer for D. B. Milliken Co., 131 N. Fifth Ave., Arcadia, Calif. 91006. He was formerly with North American Aviation Space and Information Div. where he was responsible for numerous phases of photoinstrumentation including aircraft flight testing and applications/procedures for photodocumentation in Apollo and Saturn II programs. Also announced was the appointment of Dudley A. Warner as Field Engineer, Mountain States Territory. In his new position he will be responsible for service and sale of Milliken high-speed and video film recording cameras.

**John J. Demeter** has been appointed Assistant Technical Director of Lab Operations for the Motion-Picture Division of Bebell & Bebell Color Laboratories, Inc., 108 W. 24 St., New York, N.Y. 10011. He was formerly with NBC where he was Chief Motion-Picture Laboratory Technician and Supervisor of Quality Control. The firm also announced that Peter Spataro has been appointed Supervisor of Printing Room Operations.

**Leslie Oliver**, who retired recently from the position of Director and Joint Manager of Technicolor Ltd., has accepted the post of Consultant to Halas and Batchelor of Great Britain. He will assist in the overall organization of the firm and especially in

the development and application of new techniques in the field of educational films.

**Abe Jacobowitz** has been appointed Sales Manager of Television Broadcast Equipment for Philips Broadcast Equipment Corp., 299 Route 17, Paramus, N.J. 07652. He was formerly Vice-President and Chief Engineer of Communications Industries Corp., a Newark, N.J., firm that owned and operated seven TV and radio stations. Mr. Jacobowitz is the author of *Standard Frequency Allocation Map Book*.

**Louis F. Meyer** has been appointed Director of Marketing for D. B. Milliken Co., 131 N. Fifth Ave., Arcadia, Calif. 91006. He was previously Manager of Field Engineering. In his new post he will be responsible for all Milliken marketing activities.

**Robert E. Dressler** has been named Director of the Ampex Video Institute, the company's closed-circuit television school at Elk Grove Village, Ill. He was formerly Director of Audio-Visual Services for Field Enterprises Educational Corp. in Chicago. The school offers five-day courses in closed-circuit television for video recording equipment users and for service personnel.

**John A. C. Yule** has been appointed Senior Research Scientist for the Graphic Arts Research Center, Rochester Institute of Technology, Rochester, N.Y. 14614. Mr. Yule was formerly a research associate with Eastman Kodak Co. In his new post he will work on fundamental research projects in the fields of color theory, science, specification and reproduction systems. He will also participate in planning and conducting industry seminar programs held at the Center. Author of a number of papers on color, his first book, *Principles of Color Reproduction* was published early this year (1967) by John Wiley and Sons, Inc.

**Frank P. Brackett, Jr.**, has been appointed Director of Research for Technicolor, Inc., 6311 Romaine St., Hollywood, Calif. 90038. He has been with Technicolor since 1935. In his new post Dr. Brackett will direct various research programs, including development of a nonsilver imbibition motion-picture print manufacturing process, and expansion of the capabilities and applications of the Technicolor Vidtronic color video tape to film transfer process.

**Richard W. Spayd and Leo J. Thomas, Jr.**, have been appointed to the senior staff of Kodak Research Laboratories. Appointments to the senior staff are made in recognition of scientific achievements or of increasing responsibilities in the laboratories. Announcement was made by John A. Leermakers, Kodak Vice-President and Director of the Laboratories. Dr. Spayd, of the Emulsion Research Division, has been engaged in physical chemical studies of photographic mechanisms since joining Kodak in 1962. Since 1965 he has been conducting an investigation of color photographic systems. Dr. Thomas joined the Color Photography Division in 1961, specializing in process technology. For several years he has worked on diffusion, computational models and rapid process technology.

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