



## Fernseh- und Kinotechnische Gesellschaft eV. (FKTG) — 50th Anniversary

When this sister Society of SMPTE in Germany marked its 50th anniversary of existence in 1970 its former president, Dr. Albert Narath, delivered an address covering the history and achievements of the Society since its foundation. This address has now been printed and is available (in German) from the Fernseh- und Kinotechnische Gesellschaft e.V., 1 Berlin 52, Eichborndamm 141-167, Germany.

Known for many years as the DKG (Deutsche Kinotechnische Gesellschaft — the name given it when it was founded in 1920), the German Society, like the SMPTE, extended its scope to include television engineering and assumed its present name in 1973.

Dr. Narath's account distinguishes five periods during which the Society has played a major role in the development of motion-picture and television technology in Germany: silent films 1920-1929; sound films 1929-1938; color films 1938-1947; magnetic sound recording and wide film formats 1947-1956; videotape and television, since 1957. In each period he describes the advances made, the contributions of distinguished members of the Society, and the growth of the Society's organization and activities. Besides recording the history of the DKG this survey is therefore eminently useful as an overview of the entire development of the technology in Germany.

The final section of the report describes the help rendered by DKG in the formulation and promulgation of industry standards in Germany, and its participation in the work of the International Standards Organization.

The DKG, now the FKTG, has a great record of accomplishment behind it and seems now to be entering its second half century well equipped to deal with the increasingly rapid changes facing the industry.

**Sound Recording and Reproduction**, a course offered by the SMPTE in cooperation with the University of Southern California's Division of Cinema, will be held Wednesday evenings beginning 18 September and continuing through 22 January at the USC Founders Hall 226. The course will cover the techniques of recording, processing and reproducing sound. The course is non-credit. The enrollment fee of \$97 includes the textbook. Further information is available from the Division of Cinema, University of Southern California, University Park, Los Angeles, CA 90007.

The University of Southern California's Annenberg School of Communications is conducting its first doctoral program for which 11 students have been enrolled. The program, entitled Communications Theory and Research, is designed to train students for research positions in communications media, service or industries or for teaching and

search in an academic setting. In addition to the traditional methods of instruction the Annenberg School utilizes problem-centered seminars where small groups of students work as on-the-spot teams on practical communication problems.

**The Scanning Electron Microscopy 1975** meetings sponsored by the IIT Research Institute will be held 7-11 April 1975 in St. Louis. In addition to the 8th annual Scanning Electron Microscopy Symposium, two Workshops — The Teaching of Scanning Electron Microscopy and Scanning Electron Microscopy and the Law — are scheduled. The latter workshop will review SEM as a tool for resolving legal questions including such subjects as medical, toxicological, failure analyses and other forensic problems. Papers to be presented at the Symposium will report advances in SEM technology. Further information is available from Dr. Om Johari, Director SEM Symposia, IIT Research Institute, 10 W. 35 St., Chicago, IL 60616.

**The Battle of Bunker Hill** will be depicted in an educational and historical theater-museum specially constructed for the Bicentennial Program, it was announced jointly by Edward J. King, Executive Director of Massport, and Robert G. Hennemuth, Vice-President, Industrial Relations, for the Raytheon Company of Lexington, Mass. The building will cover 12,000 square feet on a site adjacent to the berth of the USS Constitution in Charlestown. The theater-museum will feature a multi-media presentation of the battle. Films, slides, three-dimensional scenery and tableaux and directional sound will be combined for the historical presentation.

**A new multi-purpose hall**, a round structure more than 100 m in diameter, has been constructed in Katowice, Poland. At full capacity the hall has space for about 12,000 seats. For television and theater performances a stage of 60 by 40 m is available. Projectors and a screen 26.5 m wide and 12 m high have been installed by Siemens Aktiengesellschaft, for showing films to an audience of up to 4,500 persons.

The use of two projectors permits showing various types of films including 35mm, CinemaScope with single-channel photographic sound recording or 70mm films with 6-channel magnetic sound. For the 70mm 6-channel films, five channels are provided for screen-related sound reproduction (left, half-left, center, half-right and right) and a sixth auditorium-related channel for effects. Picture reproduction is by projectors with 6.5-kW xenon high-pressure lamps which provide a satisfactorily illuminated picture over a distance of 54 m. Slides can be shown with a high-power projector equipped with a 2.5-kW xenon high-pressure lamp.

Since the area occupied by the seats takes up about a third of the hall's entire floor area, each channel of the screen-related sound reproduction is provided with two Eurodyn loudspeaker combinations, each with an extra-high-frequency horn-type loudspeaker. Each loudspeaker combination (transmission range 50 to 15,000 Hz) consists of a low-frequency cone loudspeaker and a high-frequency pressure-chamber loudspeaker with spherical-wave horn and an electrical filter. The spherical-wave horn is an exponential horn providing resonance-free sound radiation.

When 6-channel reproduction is in use 10 low-frequency loudspeakers and 20 horn-type speakers are used to ensure that the sound can be heard in every seat. The sound effects on the sixth channel are radiated by 14 10-W coaxial loudspeakers installed in the ceiling above the seats.

Because the hall is used for various purposes the 27.5- by 17-m screen is designed to be collapsed into an air-conditioned shaft let into the floor of the hall.

**Progress in Organic Coatings**, a new international quarterly, has been announced by Elsevier Sequoia S.A., P.O. Box 851, CH-1001 Lausanne 1, Switzerland. The journal is intended to summarize and analyze the progress and current state of knowledge in the field of organic coatings and related subjects. Topics to be covered in the first issue will include adhesion testing, testing of corrosion resistance, fire-retardant coatings, permeability and several other related topics. The Managing Editor is W. Funke, Stuttgart; and the Consulting Editors are P. Fink-Jensen, Copenhagen, and A. R. H. Tawn, Orpington. The yearly subscription rate is SFr 137.50 (about \$47). A sample copy is available from the publishers if the request is made on company letterhead.

**The 1973 Motion Picture and Videotape Catalog** listing selected audiovisuals for the health scientist is a publication of the U.S. Department of Health, Education and Welfare. It is available from Public Documents Distribution Center, 5801 Tabor Ave., Philadelphia, PA 19120, at a price of \$1.95. The first section of the catalog lists and describes 16mm motion pictures available on short-term loan. The second section lists videotapes available for duplication in five formats on blank tapes supplied by the requestor. There is no charge for either service. The motion pictures and videotapes listed are available for health sciences professional educational use only. The motion pictures include autopsy techniques and dissections of various parts of the human body as well as surgical techniques filmed on living patients.

**Standards and Practices for Instrumentation** (4th ed.), a one-source reference to instrumentation and control standards developed by national and international standards organizations, is now available from Instrument Soc. of America, 400 Stanwix St., Pittsburgh, PA 15222. The book, which has been updated and expanded, is divided into three major sections: (1) abstracts of 700 standards published by 76 United States standard-writing bodies and titles of 160 international standards published by the International Organization for Standardization (ISO), the International Electrotechnical Commission (IEC) and the Pan American Standards Commission (COPANT); (2) comprehensive subject index to all abstracts and titles; and (3) full texts of 40 current ISA standards and recommended practices. The book is priced at \$90.

**The 1974-75 Audio-Visual Equipment Directory** (20th ed.) is available from National Audio-Visual Assn., Inc., 3150 Spring St., Fairfax, VA 22030, at a price of \$12.50 or \$11.25 if payment accompanies order. A special price schedule is available for NAVA commercial members. (The price is \$35 per

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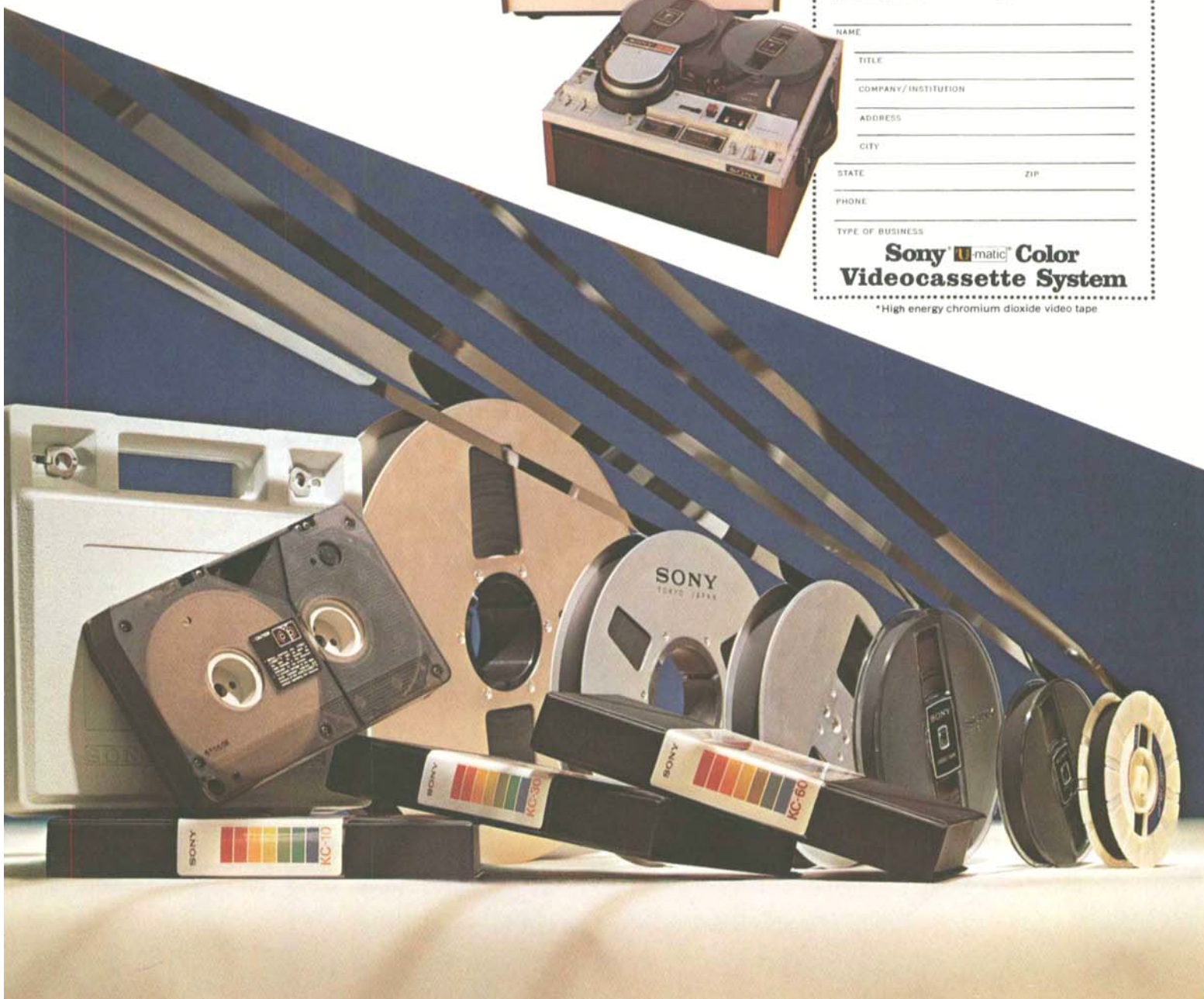
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**Sony U-matic Color  
Videocassette System**

\*High energy chromium dioxide video tape



copy to non-NAVA companies engaged in the manufacture, production or sale of audio-visual equipment and materials.)

The new *Directory* has been revised and updated with more than 2000 items listed and described. Products of 585 manufacturers are described and specifications and prices are given for each item. More than 1600 photographs are included. Also included are charts for screen size; film and tape running times; and hundreds of accessory items with their sources. There are indexes to hundreds of industry trade names and a geographical listing of dealers. There is also an index to contributors with complete addresses and telephone numbers. The *Directory* contains 492 pages (8½ by 11 in). Accompanying the *Directory* as a special bonus is the 2nd. edition of the *A-V Buyer's Guide* produced by NAVA's Industry and Business Council.

**Film laboratory prices** and services are set forth in a 16-page booklet available from Bell, Inc., Motion Picture Lab Div., 416 W. 45 St., New York, NY 10036. All prices have been changed from those shown in previous price books. Prices have been reduced for developing 16mm Eastman Color Negative 7247 and 7254 as well as for 16mm work prints on Eastman Color. Price reductions are shown for developing normal and forced one and two 16mm Ektachrome 7252 and High-Speed Ektachrome. Super-8 release prints, both color and black-and-white as well as silent and sound, have all been reduced in price. The booklet contains an Exposure Index showing normal, forced one to four stops and retarded developing recommendations for color and black-and-white Kodak films.

**Two balloon-borne, wide-area broadcasting systems** will be installed for National Iranian Radio & Television (NIRT) by TCOM Corp., a subsidiary of Westinghouse Electric Corp., 1801 K. St., N.W., Washington, DC 20006. Two channels of television and two FM radio stations will be broadcast to the southwestern and southeastern regions of Iran, according to present plans. The transmitting equipment will be suspended from a new aerodynamically-stable tethered balloon called an aerostat at an altitude 10,000 to 15,000 ft (about 3 to 5 km). The broadcasting systems are expected to be operational by mid-1975.

**A new television station**, available for private use by the public has been opened in New York City. The station is part of a new service, called Multipoint Distribution Service (MDS), authorized by the Federal Communications Commission. The New York station is owned and operated by Microband Corp. of America and will provide private television transmission facilities from its control center in the Empire State Building to various locations throughout a three-state area. The new service is intended for use by business, government, educational and entertainment organizations to deliver their programs at a lower cost than possible with other presently available means. Customers select the transmission time and receiving points and control the program content. MDS uses microwave frequencies (2150 MHz) and a system of address encoding to assure privacy of programs. For example, a department store chain might conceivably use the MDS service to link some 18 to 20 branch stores throughout the coverage

area for a daily 15-minute management meeting. The televised management session, with optional two-way audio for questions and answers would cost something like \$5.00 per store per session.

**The transfer of license** of Public Television Station WNVTV, Channel 53, to Central Virginia has been approved by the Federal Communications Commission, it was announced by B. W. Spiller, President and General Manager of Central Virginia Educational Television Corp., 5325 Little River Turnpike, Annandale, VA 22003. Also announced was the appointment of Daniel P. Ward as Station Manager. Hugh Green has been appointed director of Instructional Programming and Bob Wine has been appointed Chief Engineer.

The approved agreement of license transfer provides for the continuation of the Broadcast Engineering Technology Curriculum at the Northern Virginia Community College at Annandale where the WNVTV Studios will remain in their present location.

**Audiotronics Corp.**, 7428 Bellaire Ave., North Hollywood, CA 91605, has acquired Acoustifone Corp., a subsidiary of Canoga Industries, El Monte, Calif., it was announced jointly by Don E. Warner, Audiotronics President, and Stanley E. Beale, Canoga Industries President. Acoustifone produces acoustic headphones and other listening systems as well as tapes and filmstrips.

**Cinequip**, 41 Scollard St., Toronto, Ont., Can. M5R 1G1, has been appointed the exclusive Canadian importer of Swintek cordless microphone systems for Alan Gordon Enterprises Inc., 5362 N. Cahuenga Blvd., North Hollywood, CA 91601. The Swintek systems feature miniature transmitters to provide high-quality sound. They are useful in situations where wireless sound is desirable.

**Goldmark Communications Corp.**, One Communication Plaza, Stamford, CT 06904, has announced that the Automatic Skew Corrector (*Journal*, 540, June 1974) has been patented (U.S. Patent No. 3821801). The Skew Corrector is an electronic device to eliminate picture distortion in programs played over ordinary television sets. It incorporates solid-state circuitry and a unique electromagnetic tape tension mechanism which senses any change in the periodic timing of video pulse synchronization and automatically adjusts tape tension to eliminate picture distortions.

**Broadcast Electronics**, 8810 Brookville Rd., Silver Spring, MD 20910, has announced the acquisition of the Modex line of video monitors from the precision Electrical Manufacturing Div. of Circuit Science Inc. of Minneapolis. Broadcast Electronics manufactures audio cartridge systems and other broadcast and industrial audio equipment. The Modex line consists of high-resolution solid-state monochrome video monitors with plug-in modules for each of the circuit areas.

**Tri Comm Productions**, a new videotape and film production company has opened offices at Hilton Head Island, S.C., after separating from Sea Pines Co. which had established it as an in-house unit in 1973. The new company plans to offer services for advertising production, public relations and employee training.

It is capable of providing videotape and film presentations and multi-media presentations involving single slide, multiple slide and screen materials. The address of Tri Comm Productions is P.O. Box 5242, Hilton Head Island, SC 29928.

**Carter Equipment Co.**, 1050 W. Florence Ave., Inglewood, CA 90301, has acquired the Processing Machine Div. of Terminal Data Corp., it was announced by Clay Ogletree, Sales Manager for Carter Equipment Co. The firm manufactures and distributes professional motion-picture equipment. The processing machines, marketed under the names of ColorMate and FilmMate, are small, self-contained processors for color and black-and-white, negative, positive and reversal processes.

**Video & Film Communication**, a new monthly magazine devoted to the expanding applications of audio-visual aids, has been announced by the editor, John Chittock, with offices at 37 Gower St., London WC1E 6HH. Technical Editor of the new magazine is Bernard Happé, an internationally known authority on film and television technology. Until recently he was Technical Manager of Technicolor, Inc. The new magazine will cover closed-circuit and cable TV, industrial films, slide projection and other audio-visual aids. Mr. Chittock founded *Screen Digest*, an international monthly survey of news on film, television and audio-visual media, in 1971.

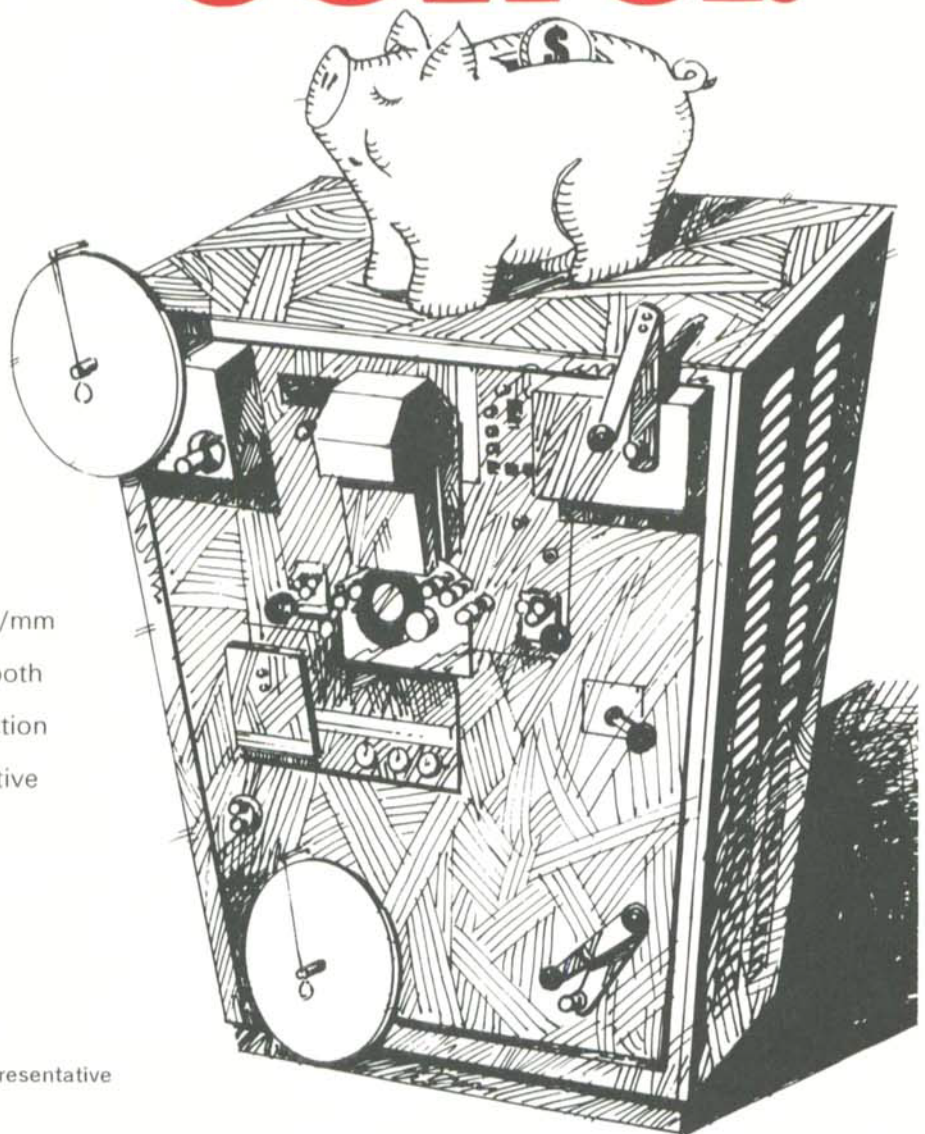
**A supplemental price list** to the *Alan Gordon Enterprises Professional Motion Picture Equipment Catalog No. 10* is available from Alan Gordon Enterprises, 5362 Cahuenga Blvd., North Hollywood, CA 91601. The 12-page price list updates all prices in Catalog No. 10. It lists more than 3000 motion-picture equipment items by catalog number and name.

**The Ikegami handheld color TV camera**, developed specifically for news gathering by CBS Network's Engineering and Development staff (51 W. 52 St., New York NY 10019) and the Ikegami design team (Ikegami Tsushinki Co., 1-11-Motaki, Kawashi-ku, Kanagawa, Japan), was the only live camera aboard the White House press plane to provide coverage of President Nixon's recent visit to the Middle East — the first time a portable live camera had been used for a major overseas news story. Recordings of the output of the camera were made on an IVC-100 portable videotape recorder. The Ikegami camera weighs 12 lb and has an auxiliary pack weighing 22 lb (including batteries). An example of the immediacy with which news can be broadcast occurred recently in Chicago. A train wreck at 6:22 P.M. was on the air live at 6:44 P.M. over CBS-owned WBBM-TV with coverage provided by the Ikegami camera crew.

**W. Vinten Ltd.**, Western Way, Bury St. Edmunds, Suffolk IP33 3TB, England, will represent Peterson Enterprises Inc. of Glenview, Ill., and Sickles Inc. of Phoenix, Ariz., in the United Kingdom, Europe and other areas forming the Vinten agency trading territories, according to a recent announcement. Peterson Enterprises designs and manufactures motion-picture contact and reduction printers.

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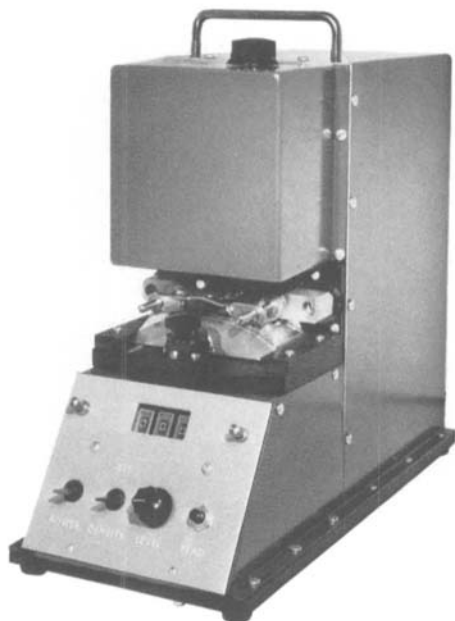
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Don't forget the 116th SMPTE Technical Conference Nov. 10-15, Toronto

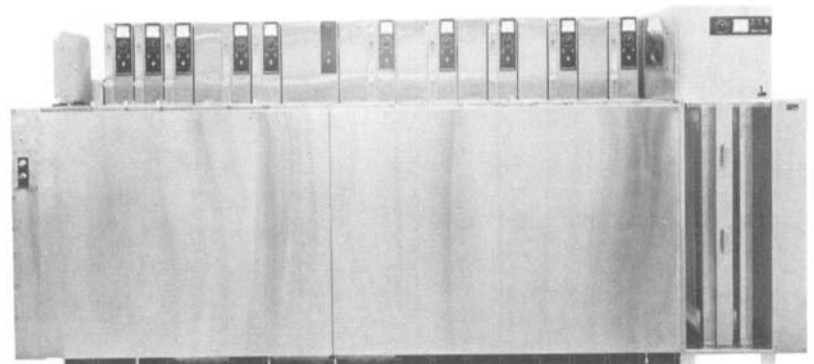
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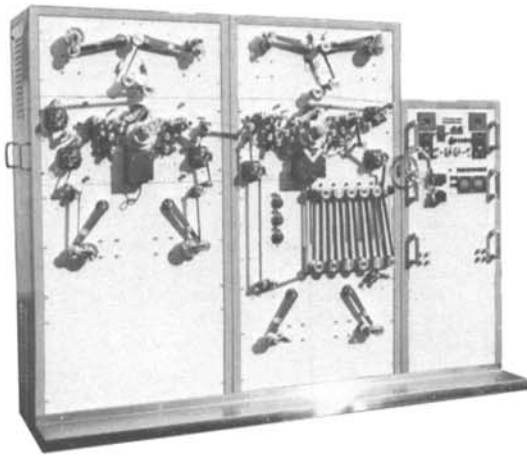
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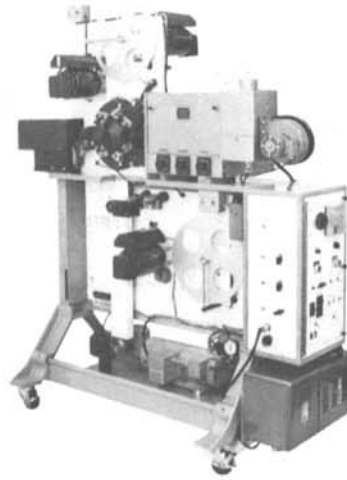
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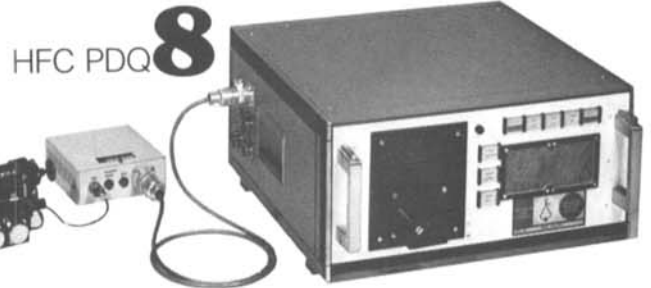
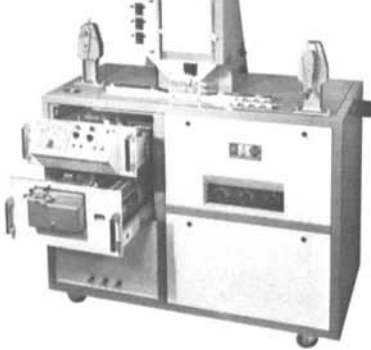
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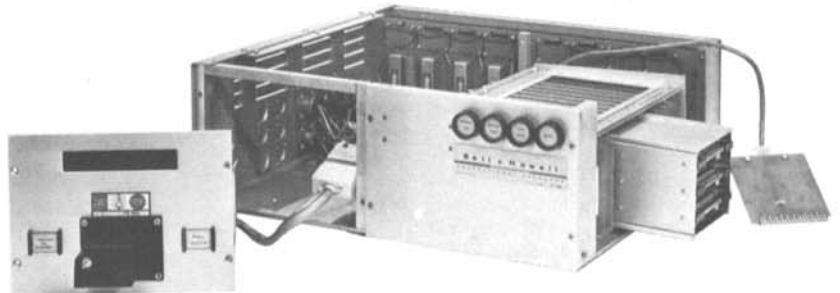


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**The National Information Center** for Educational Media (NICEM), University of Southern California, University Park, Los Angeles, CA 90007, has announced a new nonprint service consisting of a total information package with access to more than 380,000 main entries in nonbook media. Total subscription cost of the package is \$388.50. The subscription package includes nine indexes, including the 3-volume *Index to 16mm Educational Films* (5th ed.), four bi-monthly updates, one copy of each index on microfiche and four bi-monthly updates of each volume on microfiche. If purchased separately the subscriptions would cost \$458.50. The indexes are also available individually in either bookcopy or microfiche.

**Magnasync/Moviola Corp.**, 5539 Riverton Ave., North Hollywood, CA 91601, has announced the appointment of W. Carsen Co. Ltd. of Ontario, Canada, as the Canadian distributor of the Magnasync/Moviola range of motion-picture editing and recording equipment. Included in the equipment are two-plate and four-plate flatbed Moviolas. The machines have 16mm picture heads and are designed to move film safely from single-frame inching up to 10 times sound speed. Manager of Carsen's Professional Photography Div. is Crispin Rhodes who will head the sales force handling the Magnasync/Moviola equipment.

**Geo. W. Colburn Laboratory, Inc.**, 164 North Wacker Dr., Chicago, IL 60606, has announced a new management team, all co-owners of the laboratory, under the leadership of Robert Colburn, President, and Francis Colburn, Secretary-Treasurer. The new co-owners are: Ray Czarnik, Vice-President, Order Control; Matt Herman, Vice-President, Printing and Processing; Al Hilliard, Vice-President, Technical Information; Clyde Ruppert, Vice-President, General Administration; Henry Zenner, Vice-President, Audio-Visual Aids; Joe Boffa, Supervisor of Inspection and Mounting; Jo Britz, Quality Control Supervisor; and John O'Malley, Manager, Processing Dept.

**Precision Film Laboratories, Inc.**, 630 Ninth Ave., New York, NY 10036, an affiliate of DeLuxe General, Inc., Hollywood, Calif., has arranged with the Postal Service Training and Development Institute in Washington, D.C., to deliver 35mm color film for use in programs to train postal management workers in the United States. Precision Film Laboratories is a 41-year-old New York-based film processing company offering complete visual communication laboratory services.

**Robert Bosch Fernseh**anlagen GmbH (Darmstadt) has announced the installation of three completely equipped color television studios in the Soviet Union. Two of the three studios are equipped with four KCU color cameras and the third studio is equipped with three KCU

cameras. The studio-complex also includes the appropriate distribution system and voice command equipment as well as studios for film scanning and video recording. Bosch Fernseh also supplied two color television transmitter vans. Because Soviet television utilizes the SECAM system all image sources will be linked by SECAM mixers constructed at Bosch Fernseh.

**The new address** of the Czechoslovak Scientific Film Assn. at the Czechoslovak Academy of Sciences is 662 65 Brno, Zemědělská 1, Czechoslovakia, it was announced by I. Jirků on behalf of the Secretariat. Head of the Laboratory for Scientific Film and Educational Technology of the Agricultural University (at the same address) is Dr. Milan Nováček. Mr. Jirků also announced, on behalf of the Secretariat of the CSFA, that the 4th International Colloquium of Research and Educational Cinematography, planned earlier to be held in 1974, will be held in June 1976. The Colloquium was postponed because of technical-organizational reasons the announcement stated.

**Interactive Radiation, Inc.** (Inrad), 406 Paulding Ave., Northvale, NJ 07647, is the exclusive distributor in the United States for a number of Garching laser products, according to the terms of an agreement with Garching Instrumente GmbH of Garching, West Germany, a subsidiary of the Max Planck Institutes. Garching products marketed by Inrad include the Model GI 4/27 OPO optical parametric oscillator continuously tunable over the spectra regions of 0.415 to 2.1  $\mu\text{m}$  and the Model EL 154 image converter camera system which can record rapid transient luminous or nonluminous phenomena.

**Peter C. Goldmark** has been awarded the honorary degree of Doctor of Humane Letters by Dartmouth College at its 204th Commencement ceremonies 9 June at Hanover, N.H. He is known throughout the world for his many contributions to the art of electronic communications. Dr. Goldmark is President and Director of Research of Goldmark Communications Corp. of Stamford, Conn., a subsidiary of Warner Communications Inc. At present he is directing the New Rural Society project, a concept of revitalizing rural economy through enabling small towns to provide a wide spectrum of essential services by innovative use of electronic telecommunications.

Born in Budapest, Dr. Goldmark earned the degree of Ph.D in Physics at the University of Vienna. A Poynter Fellow at Yale, he holds honorary doctorates from Fairfield University and Polytechnic Institute of Brooklyn.

**Senri Miyaoka** is the recipient of the 1974 Vladimir K. Zworykin Prize Award presented by the Institute of Electrical and Electronics Engineers for "his contribution to the development of new concepts in color TV display tubes." Mr. Miyaoka, Manager, Television Tube Development, for Sony Corp., innovated the 1-gun, 3-beam electron optics system of the Trinitron color display tube. In 1969 he received the Best Paper Award from IEEE's Broadcast and Television Receivers Group and during that same year he was the recipient of the Mainichi Industrial Technology Award. The Vladimir K. Zworykin Prize Award was established by the IEEE in 1950

to recognize outstanding contributions to electronic television.

**Jonathan W. Flint** has been appointed Sales Manager for the Philadelphia-Delaware Valley Area, it was announced by Du Art Film Laboratories Inc., 245 W. 55 St., New York, NY 10019. Mr. Flint was formerly General Manager of Calvin Cinequip, Inc., at the But-tonwood Film Center in Philadelphia. In his new post he will be responsible to Du Art for sales, technical services and market development in the Philadelphia area.

**Neal Keehn** has been appointed Vice-President, Sales and Services for Byron Motion Pictures, Inc., 65 K St., N.E., Washington, DC 20002. He was formerly Vice-President, Sales, for DeLuxe General Inc., in Hollywood. In his new post he will be responsible for sales planning and management and customer service operations.

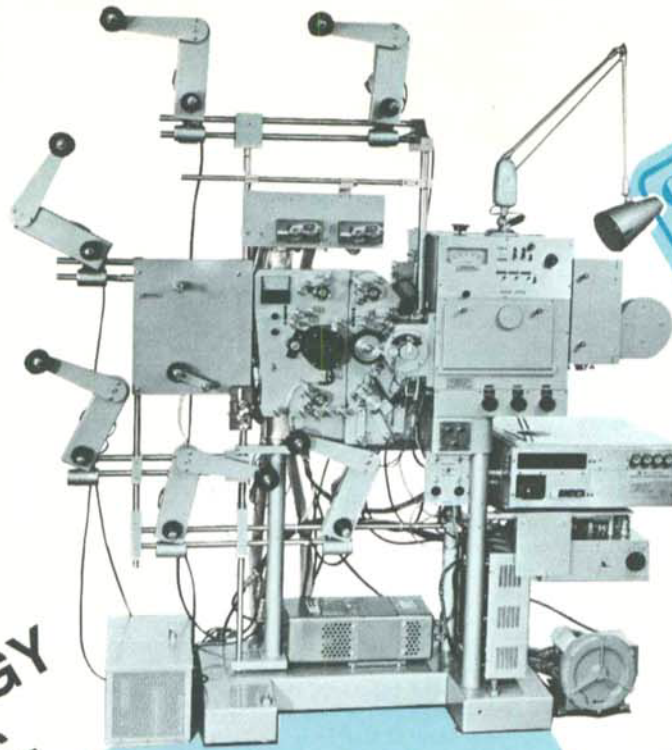
**Edwin P. Przybylowicz** has been appointed Technical Assistant to the Director of the Kodak Research Laboratories. He is succeeded by Robert F. Motter as Assistant Director of the Emulsion Research Div. Dr. Przybylowicz joined Kodak in 1959. He became head of the general analytical laboratory in 1959 and a member of the senior staff in 1960. Dr. Motter joined Kodak in 1958 in the emulsion research division. He transferred to the color film laboratory in 1960 and was made laboratory head of the negative-positive color systems laboratory in 1969. He became a senior research laboratory head in the emulsion research division in 1973.

**Clyde A. Parker** has been appointed Engineering Manager of Channel 13 Television Station WOKR, succeeding George S. Driscoll who has retired. Mr. Driscoll, who was responsible for the original engineering construction of WOKR in 1962 and its subsequent technical operation, has been retained by WOKR as a consultant for special projects. Mr. Parker joined WOKR-TV in August 1962 during construction of its Pinnacle Hill transmitter. He was appointed Assistant Engineering Manager in 1964.

**Sol Schildhouse**, Chief of Cable Television at the Federal Communications Commission, has become a member of the law firm of Farrow, Cahill, Kaswell and Schildhouse, it was recently announced. The firm has offices at 2030 M St., N.W., Washington, DC 20036, and at 35 Embarcadero Cove, Oakland, CA 94606. Mr. Schildhouse was guest speaker at the Cable Television Symposium at the Society's 108th Conference held 4-9 October 1970 in New York City. At that time, he said, "There is no agreement [in the FCC] on the grand design for the settlement of all of cable's problems, but I believe we may finally be on the right track."

**Richard R. Conger** has joined the U.S. National Archives and Records Service as Chief, Photographic Branch. He retired from the U.S. Navy as a Lieut., Photographic Officer after 30 years service. He then joined Metacomet/Agfa-Gevaert where he remained until his reentry into government service.

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**Ed Gallagher** and **Jon C. Clayton** have joined Strand Century Inc. as regional marketing-sales managers for television, motion-picture and photographic studio lighting, it was announced by Lawrence Kellerman, Vice-President, Marketing and Sales. Both men were formerly regional marketing managers for Berkey Colortran. In their new posts, Mr. Gallagher will have marketing and sales responsibilities for Strand Century in the Eastern Region and Mr. Clayton for the Southern Region. Mr. Gallagher will make his headquarters at the main offices of Strand Century at 20 Bushes Lane, Elmwood Park, N.J., and Mr. Clayton's headquarters will be at 4930 Maple Ave., Dallas, Tex.

**Francis I. Muller, Jr.**, has been appointed to the newly created position of Field Task Supervisor for the CATV Equipment and Installation Operation of GTE Sylvania Inc. He will be responsible for the direction of field engineering personnel assigned to cable television systems installed throughout the country by Sylvania.

**Juhani Hamalainen** has been appointed Manager, Reel-to-Reel Recorder Product Management, for RCA Broadcast Systems, it was announced by Jerome L. Grever, Manager, Electronic Recording Equipment and Product Management. Mr. Hamalainen has been with RCA Corp. since 1959. His most recent activity was that of Project Manager for the planning and installation of broadcast equipment for the Austrian Broadcasting Authority's TV center in Vienna which was designed and largely equipped by RCA Corp. In his new post he will be responsible for maintaining and enhancing the RCA line of TV reel-to-reel videotape recording systems.

**Edward M. Allen** of Walnut Creek, Calif.; **Jay J. O'Neal** of Austin, Tex.; and **Joe H. Floyd** of Aberdeen, S.D., have been elected NCTA Board District Directors, it was announced by National Cable Television Assn., 918 Sixteenth St., N.W., Washington, DC 20006. Mr. Allen is President of Western Communications, Inc., a subsidiary of Chronical Publishing Co. of San Francisco. He will represent Arizona, California, Colorado, Hawaii, Nevada and Utah cable operators on the NCTA Board. Mr. O'Neal is President of Commco, Inc. He will represent cable operators in Arkansas, Louisiana, New Mexico, Oklahoma and Texas. Mr. Floyd is Vice-President of Midcontinent Cable Systems Co. He will represent cable operators in Iowa, Kansas, Minnesota, Nebraska, North Dakota and South Dakota.

**William Brocks** has been appointed Service Manager for Eclair Corp. of America, 62 W. 45 St., New York, NY 10036. With Eclair for more than two years, he was formerly Camera Repair Engineer. Before joining Eclair he had been an electronic engineer for American Broadcasting Co.

**Rodney R. Maddison** has been made President of Commercial Electronics, Inc., Mountain View, Calif. His former post, that of Vice-President of Marketing, is now held by his successor, George A. Gras-

so. The company manufactures color TV cameras for broadcast, closed-circuit and special purposes.

**Jeffrey N. Carline** has been appointed Regional Sales Manager for the Southern Territory for the Audio-Video Systems Div. of Philips Broadcast Equipment Corp., One Philips Parkway, Montvale, NJ 07645. He was formerly with the Nortronics Company, Inc., in Minneapolis. In his new post his headquarters will be in Atlanta, Ga., where he will be responsible for sales activities for all products of the Audio-Video Systems Div. including the Norelco color VCR videocassette recorder, closed-circuit TV systems, sound systems and the Norelco PIP audio-visual system.

**R. Colin Parkhill** has been appointed RCA Broadcast Systems Sales Representative for Virginia and the District of Columbia, according to a recent announcement. Mr. Parkhill, whose offices are in Arlington, Va., succeeds Fred W. Huffman who has been assigned to the Camden, N.J., headquarters as Manager, Control Equipment Product Management. A native of Ireland, Mr. Parkhill joined RCA International Ltd. (Great Britain) in 1964 as a television equipment engineer. In 1965 he transferred to Camden, N.J., as a Broadcast Equipment Product Specialist.

**Frank J. Kelly** has been appointed head of the newly created Motion Picture Sound Systems Dept. of Alan Gordon Enterprises, 5362 N. Cahuenga Blvd., North Hollywood, CA 91601. He was formerly associated with J. A. Maurer, Inc., Bristol Films, Anken Chemical and Film and other firms in the motion-picture equipment field. In his new post Mr. Kelly will be in charge of sales of Swintek cordless microphone systems and related items such as professional microphones and sound recorders.

**Donald R. Perry** is the newly elected President of the Institute of Louisiana Music and Folklore. Other new officers are: Richard H. Mackie, First Vice-President; Daniel M. Barker, Second Vice-President; and Helen S. Perry, Secretary-Treasurer. The Institute of Louisiana Music and Folklore is a literary, cultural and educational organization formed to document the unique aspects of the music, folklore and general cultural background of the people of Louisiana. Plans include making and exhibiting documentary films of Louisiana subjects.

**William Davis** has joined Byron Motion Pictures, 65 K St., N.E., Washington, DC 20002, as Manager, Videotape Sales, it was announced by Neal Kechn, Vice-President, Sales and Services. Mr. Davis was formerly Vice-President and Producer for BF&J Video Inc., Baltimore. Earlier he had been associated with National Broadcasting Co. in Washington and Logos Teleproduction in Arlington.

**Joseph Garodnick** has been appointed to the newly created post of Director of Communications Systems for Goldmark Communications Corp., a subsidiary of Warner Communications Inc., Communications Plaza, Stam-

ford, CT 06904. Dr. Garodnick joined Goldmark Communications in 1972. He was previously a member of the technical staff of Bell Telephone Laboratories responsible for research, design and development of digital data modems. He has also been a design engineer at ITT Avionics, engaged in digital hyperbolic navigation systems research, and at Blonder Tongue Corp. where he was responsible for the development of RF amplifiers, couplers and antennae. In his new post he will report to Joseph L. Stern, GCC Vice-President of Engineering.

**Wally Schutrum** has been appointed Marketing Engineer for the Houston Fearless Product line of Technology Inc., 11801 West Olympic Blvd., Los Angeles, CA 90064, it was announced by Wendell Lewis, Vice-President. Mr. Schutrum was formerly an independent consultant for companies in the optical and photographic fields. In his new post he is responsible for the supervision of projects relating to the firm's line of high-speed continuous film processors including Advanced Colormaster processors for Kodacolor II and Color Negative II films and Advanced Labmasters for microfilm and black-and-white motion-picture film.

**Gary Jones** has been appointed Manager of ITV Productions, an independent Canadian television and motion-picture facility located at 10310 102nd Ave., Edmonton, Alberta, Can. T5J 2X6. He was formerly Director of Film Services for WFAA Productions in Dallas and is the author of *Electronic Film/Tape Post-Production Handbook*.

**Leo L. Darrigo** has been appointed Eastern Regional Manager for Dynair Electronics, Inc., 6360 Federal Blvd., San Diego, CA 92114. He was formerly Marketing Manager for Video Engineering Co. Mr. Darrigo will be based in Washington, D.C.

**William G. Glass** has been appointed Operations Manager of the Conrac Div. of Conrac Corp., 600 North Rimsdale Ave., Covina, CA 91722, it was announced by L. M. Ryan, Division General Manager. Mr. Glass was formerly Production Manager at Kennedy Laboratories. In his new post he will be responsible for all production operations, including manufacturing, production control, industrial engineering and maintenance, and purchasing at the division's 125,000-ft<sup>2</sup> plant in Covina. Conrac manufactures monochrome and color television monitors for broadcast and closed-circuit use. It also produces information display devices and data terminals.

**Joost Maréchal** has been appointed Technical Training Instructor for Pako Corp., 6300 Olson Hwy., Minneapolis, MN 55440, according to a recent announcement. He was formerly Sales Representative for Pako S.A.R.L. in France. In his new post as training instructor he will specialize in Pako cine systems for both domestic and foreign users. He will also act as a liaison for Pako in providing services for foreign customers. Mr. Maréchal speaks four foreign languages fluently, including Flemish, his native tongue.

**Herbert R. More**, long known as a leading authority on television lighting, has retired as Vice-President of Kliegl Bros., Long Island

City, after 25 years of service. He now resides in Dennis, Cape Cod. His duties are being assumed by Larry Nelson, Vice-President in charge of United States Television Sales, and by Michael Connell, Manager of International Sales.

**William Linsman** has been appointed General Manager of the Film Division of Swartwout Productions, 6736 East Avalon Dr., P.O. BOX 476 Scottsdale, AZ 85252. He was formerly Producer, Special Products for KTAR-TV, the NBC affiliate in Phoenix. In his new post his responsibilities will include management of the Film Division as well as sales and production of TV and radio commercials, sponsored films, videotape productions and all types of audio-visual presentations.

**Bernard O'Dougherty** has been appointed Service Manager for Mobius Cine Ltd., 565 Fifth Ave., New York, NY 10017. As a factory-trained Eclair technician, he will enable Mobius to add in-house servicing for ACL, NPR and CM-3 cameras to the servicing of other professional equipment already provided. Mobius also acts as the sole east coast representative for the Wilcam W2+4 reflex camera and also markets other professional motion-picture equipment.

**James K. Johnson** has been appointed to the newly created position of Field Sales Engineer

for Photographic Sciences Corp., 23 West Main St., Webster, NY 14580. He was formerly the Midwest Sales Engineer for Macbeth Div. of Kollmorgen Corp. In his new post he will be responsible for the sales and service of all PSC products for the 25 central states.

**Fred W. Huffman** has been appointed Manager, Control Equipment Product Management and **Floyd R. McNicol** has been appointed Manager, Control Equipment Engineering for RCA Broadcast System's Control Equipment Engineering and Product Management Group, Camden, N.J., it was announced by Henry H. Klerx, Group Manager. Formed early in 1974, the group is involved in expanding RCA Corp.'s line of TV control equipment and in providing design and development direction for future automated devices and systems for the TV broadcasting industry. Mr. Huffman has been with RCA Corp. since 1965 and Mr. McNicol since 1957.

**Francis J. Engel, Jr.**, has been appointed Vice-President and **Harold P. Bolton** Senior Vice-President for Technicolor Graphic Services, Inc., it was announced by Richard M. Blanco, President. The firm, with headquarters at 1001 North Cahuenga Blvd., Hollywood, CA 90038, provides photographic and related services at government installations throughout the United

States. Both men were project managers at the TGS Texas Operations at the Lyndon B. Johnson Space Center at Houston, Tex.

**Leonard F. Coleman** has been appointed Regional Sales Manager, Midwestern Region, in Eastman Kodak Co.'s Marketing Div.'s Motion Picture and Audiovisual Markets Div. of the U.S. and Canadian Photographic Div. **John M. McDonough** has been appointed Regional Sales Manager, Southwestern Region in the same division. Mr. Coleman has been with Eastman Kodak since 1948. Mr. McDonough joined Kodak in 1954.

**Wayne J. Lee** has been appointed Director of Manufacturing for Consolidated Video Systems, 300 Edward Ave., Santa Clara, CA 95050. He was formerly with International Video Corp. in Sunnyvale, Calif., where he was Manager, Manufacturing & Material. In his new post he will be responsible for all manufacturing functions within the corporation.

**Hellmut Berger** has been appointed Director of Engineering for Baton Broadcasting Inc., Box 9, Toronto M4A 2M9, Ont., Can. He was formerly Director of Engineering for CFTO-TV Ltd., a post he had held since 1962. **G. E. Malcolm**, Assistant Director of Engineering for CFTO-TV since 1972 succeeds Mr. Berger as Director of Engineering.



**Munsell Color: Taming the Spectrum**, a brochure, illustrated in color, giving a detailed explanation of the Munsell system of color notation is available from the Macbeth Color & Photometry Div. of Kollmorgen Corp., 2441 N. Calvert St., Baltimore, MD 21218. The brochure also contains an illustrated data sheet on the Macbeth SpectraLight® Color Matching System designed to provide unchanging quality of light day or night under any conditions. Illuminated pushbutton controls reduce the chance of error in lighting selection. The brochure describes various Munsell color products including the Basic Collection consisting of books of color and color files. Other available products include disc colorimetry, Munsell educational materials and color vision tests. The brochure also contains a brief history of the development of Munsell Color Standards, noting that the present Munsell color standards consist of opaque pigmented films on cast-coated paper for more than 1,500 Munsell notations.

**Liquid Crystal Bibliography** (Kodak publication no. JJ-193), a 3,281-reference bibliography on microfilm, is available from Eastman Kodak Co., Customer Services, International Photographic Div., Rochester, NY 14650, at a price of \$25. In printed form the bibliography would con-

tain more than 2,500 pages; however, since the data bank for the bibliography is computerized, it was run through a computer output microfilmer and the publication produced on 26 microfilm cards measuring 4 by 6 in. The references were gleaned from journal articles, theses, patents, reviews, government reports, conference abstracts, books and other source data from September 1888 to May 1973. The bibliography comes in a vinyl-plastic microfiche "book" and includes instructions for using the microfilm format. Author and subject indexes are included together with a numerical sequence file and reference-frequency file.

**Photographic Instrumentation Methods and Techniques for Rocket Sled and Track Testing Research and Development Projects** by Louis H. Cohen is a 360-page thesis submitted as one of the requirements for the degree of Master of Arts in Cinema from the University of Southern California. The thesis contains a detailed discussion of the problems involved in obtaining photographic instrumentation data, missile testing and related activities. Problems encountered in obtaining photographic instrumentation data during the testing of aircraft components, missiles and related equipment through the use of high-speed track and rocket test sleds and motion-picture photographic techniques are described. A survey of techniques used by scientific and technical photographers in obtaining photographic instrumentation data is presented. Also presented are the results of a study of the effectiveness of photographic instrumentation in determining the capability and reliability of aircraft, missiles and related components.

The study, financed in part by the Air Force Flight Test Center, Edwards Air Force Base, Calif., Air Force Systems Command, U.S. Air Force, has been published as Technology Document No. 73-3, U.S. Air Force. The publication contains a glossary and a fairly extensive bibliography.

**The Video Handbook**, 2d edition, is available from United Business Publications, Inc., at a price of \$11.25. Dealing with nonbroadcast television, the new *Handbook*, revised and updated, contains 192 pages and numerous illustrations. The *Handbook* is intended to help those entering the field to avoid costly mistakes in setting up their facilities and to offer practical guidance for those already in video operations. It is divided into six sections — Facilities and Equipment; Pre-Production; Production; Post-Production; Distribution and Presentation; and Reference Materials. A Glossary and a list of video equipment sources are included.

**Photographic Exposure Guide** (ANSI Standard PH2.7-1073, revised from PH2.7-1966) published in a 64-page booklet measuring 4 by 7 in. is available from American National Standards Institute, 1430 Broadway, New York, NY 10018, at a price of \$3.00. The guide gives information about natural lighting under various conditions, as well as tables of values and simple charts that indicate the correct exposures for daylight or moonlight photography in color or black-and-white. Also described are a means of predetermining correct exposures at given times and places within predictable limits and a method of applying ASA speed for computing camera