

## Standards Subscription Service

The Society's Standards Subscription Service provides a complete file of approved American National Standards and SMPTE Recommended Practices in the motion-picture, television and magnetic video recording fields and also provides a yearly subscription service that can be had separately or in addition to the complete file to keep it up to date. The complete file, in a loose-leaf binder, contains all approved Standards and Recommended Practices through 1973. The price of \$165 includes, in addition, a year's subscription to the standards and recommended practices approved in 1974. A single yearly subscription for 1974 is priced at \$25.

A Television Standards subscription for subscribers interested only in standards relating to television engineering is available on a yearly basis at an initial rate of \$25 for a complete set of television and magnetic video recording standards, and an annual maintenance fee of \$5.00.

American National Standards and SMPTE Recommended Practices are published in the *Journal* and are listed in the Standards Index each year in the December issue.

SMPTE Recommended Practices are available in single copies at a price of \$1.00 for one to nine copies with discounts for larger orders. They are also available as a set. The price for 1974 is \$41.

## Address Corrections

Any member of the Society who changes his address should send the new address together with a recent mailing label (or photocopy) to the Membership Secretary at SMPTE Headquarters.

The Society now maintains a single master file of members' addresses which is used to print mailing lists for the *Journal*, the *News and Notes* and other mailings and to typeset the List of Individual Members in the *Directory*. About four weeks is required to change an address in the master file for the *Journal* mailing list and about seven weeks for the *News and Notes* list. This delay is because the *News and Notes* must be printed about six weeks before it reaches the members.

**The Society of Photographic Scientists and Engineers** will sponsor a flight to Photokina, Cologne, Germany and the Zurich, Switzerland, Symposium. The airline will be Lufthansa 747. Departure will be from Kennedy Airport 27 September. With a two-week option, passengers will depart Zurich for New York on 11 October; with a three-week option they will depart Munich for New York on 19 October. They will arrive in Cologne on 28 September. Transportation from Cologne to Zurich or Munich is not included in the air

fare since many people will probably prefer to drive or go by train, the announcement stated. Assistance with land arrangements, such as hotels, Eurorail passes, car rentals, etc. is also available. The round trip fare, New York to Zurich and return, will be \$325; to Munich and return, \$335. The announcement emphasized, however, that these rates may be subject to change before the flight date. Further information is available from Fred W. Gerretson, SPSE Travel Arrangements, Bywater Rd., Annapolis, MD 21401.

**The Society of Photographic Scientists and Engineers** has announced a three-day summer symposium beginning 22 July. It will be held at the Holiday Inn in North Randall, Ohio, a suburb of Cleveland. Theme of the symposium will be Photoconductor Image Technology—Theory and Practice. A cocktail party and banquet are planned for Monday evening and a scenic trip aboard the motorship Goodtime II is planned for Tuesday evening. Speakers at the technical sessions will include Prof. C. Bates of Stanford University; Prof. R. F. Cozzens of George Mason University; Prof. K. Hauße of the University of Göttingen; Prof. E. Inoue of the Tokyo Institute of Technology; Dr. D. M. Pai of Xerox Corp.; Prof. P. J. Reucroft of the University of Kentucky; Dr. R. H. Sprague of Itek Corp.; Prof. H. Meier of the Staatliches Forschungsinstitut für Geochemie; and Dr. A. Rose of RCA Corp. Further information is available from Dr. Evan S. Baltazzi, General Chairman, Addressograph-Multigraph Research and Development Center, 19701 South Miles Rd., Warrensville Heights, OH 44128.

**Proceedings of the Seminar on Technologies in the Laboratory Handling of Motion Picture and Other Long Films**, published in 1971 by the Society in a joint venture with SPSE, will be sold to members at a price of \$1.00 cash per copy. This book is still of considerable value. To minimize cost and speed distribution, please send a mailing label with your order to the Publications Dept., SMPTE Headquarters. After 15 Sept., the remaining inventory will be reduced.

**National Cable Television Assn.** has announced that, according to a U.S. Supreme Court decision handed down on 4 March, the CATV annual fee first exacted in 1970 was illegally and improperly imposed. The decision culminates litigation initiated four years ago by NCTA. Following the decision NCTA has petitioned the Federal Communications Commission to immediately discontinue its annual fee on CATV, to halt the collection of the 1973 fees due 1 April 1974 and also to act quickly to refund the more than \$4 million paid to it since 1970 by the cable television industry. NCTA headquarters are at 918 Sixteenth St., N.W., Washington, DC 20006

**National Cable Television Assn.**, 918 Sixteenth St., N.W., Washington, DC 20006, has announced 28 winners in the 1974 NCTA Cablecasting Awards Competition. The awards for excellence demonstrated in CATV local origination and

public access programming were presented during the 23rd annual NYCA convention held 21-24 April in Chicago. The video presentations entered in the competition were first divided into five classes, based on the CATV system's number of subscribers. They were then judged in six categories—political affairs; news and public affairs; sports; children; entertainment; and education. Award recipients were selected on the basis of how well a particular presentation accomplished its objectives and demonstrated originality, usefulness, technical quality and conceptual design within budgetary restrictions.

**The University Film Assn.** has announced the 1974 Scholarship Competition for students of film in American colleges or universities. Scholarships will be awarded on the basis of the potential the applicant shows as an advanced filmmaker, historian, critic, theoretician or teacher of film. Applicants are required to submit films or written materials, the films to be in either 16mm or 35mm. Entries should be sent on or before 1 June 1974. Further information is available from Sister Judine Mayerle, O.S.B., Chairman, UFA Scholarship Committee, College of St. Scholastica, 1200 Kenwood Ave., Duluth, MN 55811

**The Society of Broadcast Engineers**, P.O. Box 88123, Indianapolis, IN 46208, held its 10th Annual Meeting at the Rice Hotel in Houston, Tex. At that time the results of the election of officers were announced. Officers reelected were James C. Wulliman, President; Glenn H. Lahmann, Vice-President; and Robert Truscott, Secretary-Treasurer. Members of the Board of Directors were also reelected. Organized in 1961 as the Institute of Broadcast Engineers, the name was changed in 1964 to the Society of Broadcast Engineers.

**Electronic Industries Assn.** has announced a two-day symposium on Human Resources and Medical Programs of the Department of Defense to be held 11-12 June at the Pick-Congress Hotel in Chicago. Among the topics to be discussed in the Human Resources Session will be Manpower and the All-Volunteer Force; The Navy Education and Training Program; Simulation in Undergraduate Pilot Training; Man/Machine Interface in Weapons Systems Development; and Human Engineering Field Tests. The Medical Session will include such topics as Tactical (Army) Medical Care; Fleet Medical Care; Support of Men in Military Environment; and Clinical Laboratory Systems. Further information is available from Ruth Pansar, EIA, 2001 Eye St. N.W., Washington DC 20006.

**The Germain Communications Center**, 225 Broadway, New York, NY 10007, has been established to provide training programs on a professional level for students of film and television, it was announced by Milton W. Willenson, Director. The courses will include Animation; Multi-Media Communications; Film Editing; Television News Production; Videotape Techniques; Film Production; Sound Recording and The Television Commercial.



“Too many people have missed too many of the good things in theatre.

“The American Film Theatre is designed to correct that. It fills the gap between the small percentage of people privileged enough to live close to Broadway, and the rest of America. It takes great plays that have thrilled theatre-goers for years and presents them to the public.

“And it does it with film.

“From one point of view, The American Film Theatre is a unique kind of film distribution problem. Each play is shown in 500 motion picture theatres across the United States and Canada for only four showings once a month, on a subscription basis. And this attractive package may very well revitalize the American film experience for a lot of people.

“The American Film Theatre is also a unique kind of art. We’ve taken the best of the theatre and transposed it into the best of motion pictures.

“I demanded perfection on every level. From story to the directors, the actor’s, the production design. And one of my requisites was the use of Eastman film from negatives to release prints.

“When I say perfection, I mean it.”

---

Ely Landau. President, The American Film Theatre.



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415/776-6055/Washington, D.C.: 202/554-9300.

A new patent, with exhaustive claims covering electronic circuitry for battery monitoring and recharging has been granted to Don L. Beaman and John T. Shoberg. The patent has been assigned to Shotec, Inc., 1715 Junction Ave., Santa Clara, CA 95112, it was announced by Robert D. Shoberg, President. The device continuously monitors any rechargeable battery, automatically terminates the charge when the battery is fully charged and turns the charger back on automatically when the battery has self-decayed a small predetermined adjustable amount. The device will be used in Shotec's line of emergency lighting equipment and battery power supplies and will also be made available on a royalty basis to other manufacturers of similar equipment.

**Pay television**, a report on a study by Stanford Research Institute (SRI), Menlo Park, CA 94025, fifth of a seven-volume series on *The Outlook for Cable Television*, is available at a price of \$550, according to an SRI announcement. The seven-volume report is priced at \$2,750. The pay TV report projects 1.5 million pay TV households by 1976 and millions more in each succeeding year with more than 25 million in 1985. Revenues that year will approach \$4 billion annually up from \$200 million in 1976, the report indicates.

According to the report, this large projected growth does not imply a serious impact on the commercial TV market because the FCC limits the use of mass appeal programs on pay TV. Pay television will be delivered to the household both by over-the-air and CATV systems. CATV is projected to dominate pay television within 10 years because of its multi-channel capability which allows a wider variety of programs to be offered more frequently, the report says; however, it is expected that there will be strong competition in the major markets where over-air operations will dominate in the near term because they are quicker to install.

**The NTIS Directory of Computerized Data Files and Related Software**, listing more than 500 data files from 60 Federal Agencies, is available from the National Technical Information Service, U.S. Department of Commerce, P.O. Box 1553, Springfield, VA 22151, at a price of \$60. Descriptions of the data files include abstracts, generating agencies, file titles, time frames of data, data sources, technical descriptions and availability. The Directory covers such information as demographic data from the Census Bureau, vital statistics from the National Institutes of Health and comparative international statistics from the Bureau of International Commerce. Other kinds of information are listed from the Departments of Agriculture, Labor, Defense, Interior, Justice, Transportation and from organizations like the Environmental Protection Agency, the Smithsonian Institution, National Aeronautics and Space Administration, the National Science Foundation and others.

**Hamoor Communications**, 3508 Science Center, Suite 303, Philadelphia, PA 19104, a consulting and management firm, will

assemble a seven-week program to be called *Colonial and Revolutionary America on Film*. The films will be shown early this fall as part of a celebration marking the 200th anniversary of the First Continental Congress. The firm has announced that it is looking for information on films dealing with the American Colonial period up to the Revolutionary War. The firm wants information on available films including shorts and feature length films, documentaries, animated films in color or black-and-white and in 16mm or 35mm. The firm requested that written descriptions (not films) should be sent to the address above. Special interest will be in films that have not been shown commercially in a theater, such as productions by local TV stations, colleges and independent filmmakers, although films previously shown commercially will also be considered.



**Du Art Film Laboratories Inc.**, 245 W. 55 St., New York, NY 10019, has been honored by the City of New York with the presentation of a Certificate of Appreciation, the city's most prestigious business award. Murray Schwartz (r), Commissioner of New York City's Dept. of Commerce and Industry, in behalf of Mayor Abraham Beame, presented the award to Irwin Young, Chairman of the Board of Du Art. Du Art has been in existence for 52 years; it is the oldest motion-picture film processing firm in the city.

**An Energy Control Center** has been established in the RCA plant in Lancaster, Pa., to monitor and control the energy requirements of all RCA Electronic Components plants and facilities on a nationwide basis, it was announced by Clifford H. Lane, Division Vice-President, Technical Planning, RCA Electronic Components. The center will serve as an information and control center to review the current energy situation at each location. Emphasis will be placed on energy situations that have recently affected operations adversely and to appraise any short-term problems or shortages anticipated by local plant managers. Head of the new Energy Control Center is Charles T. Lattimer.

**Eastman Kodak Co.** has announced that the prices of almost all photographic films, papers and chemicals and many processing services supplied by Eastman Kodak Co. are being increased. The new price schedules average about 6½% higher than

the old price schedules, the announcement stated. The price increases, according to the announcement, result from sharply higher costs, especially for raw materials essential to the manufacture of sensitized goods. For example, the cost to Kodak of silver for photographic films and papers about doubled in 1973, as well as the costs of petroleum products and many petrochemical derivatives. There has also been a substantial increase in the cost of wood pulp. Cost increases underlying the price changes were documented and approved in accordance with Phase IV regulations of the Cost of Living Council, prior to the recent action to decontrol the prices of photographic products.

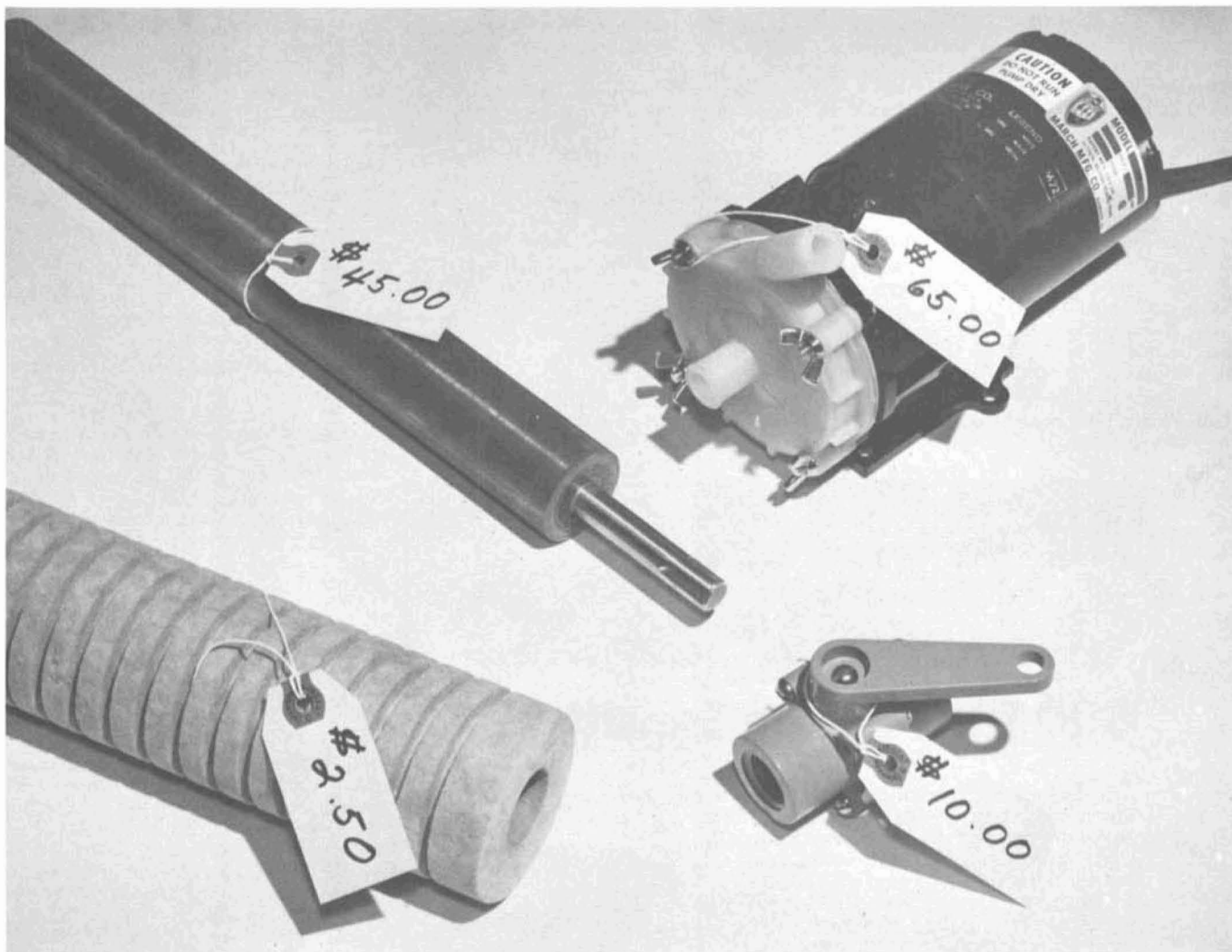
**Pako Corp.**, 6300 Olson Memorial Hwy., Minneapolis, MN 55440, has announced an equipment service program for users of Pako photographic equipment. The service is available directly through Pako or through a certified photographic distributor. Three classes of service agreements have been arranged — Class A, preventative maintenance calls made on a regular basis; Class B, preventative maintenance and repair service, which includes maintenance calls on a regular basis, together with a specified number of repair calls; and Class C, unlimited parts and service including regular maintenance and repair calls plus most required repair parts.

**Bell & Howell Co.'s Professional Equipment Div.**, 7100 McCormick Rd., Chicago IL 60645, has become a distributor in the Western Hemisphere for Metro/Kalvar Ultrasonic Film Splicers, it was announced by Alvin W. Hall, Jr., President of Metro/Kalvar, Inc. He said that Bell & Howell has concluded extensive testing of the splicers and is adding the Model 2001 and Model 2070 to its equipment line.

Model 2001 fuses polyester base films in all formats from super 8 to 35mm using replaceable bed plates to change film formats. Model 2070 is designed for 70mm only. No cement or consumables are required and the units are darkroom-oriented for splicing rawstock. Prototypes of a single strand super-8 model and a 105mm model are being tested and as production models become available, Bell & Howell will include the new units.

**Bell & Howell and Warner Bros.**, are cooperating in Bell & Howell's "Movie Festival" commemorating the 50th (literally the 51st) anniversary of the introduction of the first model 70A 16mm portable motion-picture camera with a spring-driven motor designed especially for the amateur. The "Festival" will be highlighted at the stores of participating dealers by the showing of three-minute cassettes from four recently released Warner Bros. films and by the giving out of various prizes.

The Bell & Howell Company was founded in 1907 in Chicago by Donald H. Bell and Albert S. Howell. The firm first manufactured professional 35mm equipment. In 1921 it was decided by Joseph McNabb that the firm should enter the field of amateur photography. Soon after developing a 17½mm movie camera that could be handheld by the home movie maker, Mr.



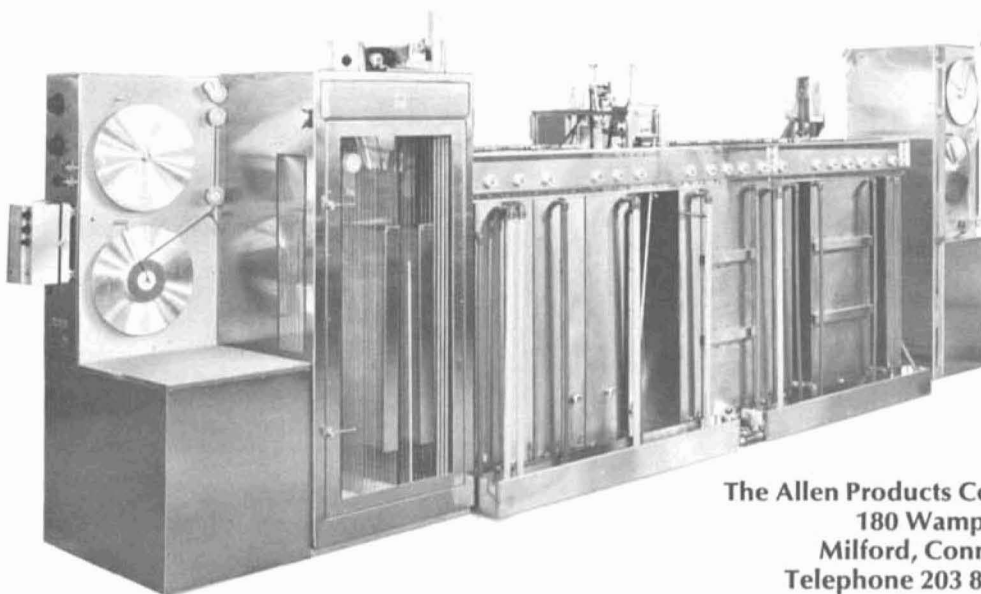
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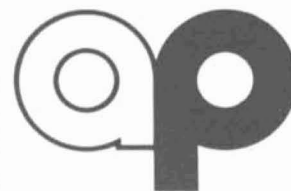
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McNabb and Mr. Howell met with George Eastman and agreed on the use of 16mm film, a format which would discourage amateurs from splitting the highly inflammable cellulose nitrate base 35mm film for use in a 17½mm camera. During the 50 years since the introduction of the 70A 16mm camera, only minor modifications have been made.

G. Carleton Hunt and E. B. McGreal have opened offices under the name of McGreal and Hunt to serve as management consultants to the motion-picture and television industries. The new offices are located at 9229 Sunset Blvd., Suite 304, Hollywood, CA 90069.

L-W Photo, Inc., has completed plans for

a 24,000 ft<sup>2</sup> structure to be built on a 1.5-acre site in the Warner Center Business Park in Woodland Hills, Calif., according to a recent announcement. The new building will house the firm's corporate offices and manufacturing facility. It will almost double the firm's present space for the design and manufacture of specialized motion-picture projectors, viewers and related equipment for the analysis of data from film, the announcement stated. The new building is scheduled for completion by July. L-W Photo is presently located at 15451 Cabrito Rd., Van Nuys, CA 91406.

Creative Industries, Ltd., P.O. Box 27464, Tucson, Ariz., is a new audio-visual design and manufacturing firm established by Myron H. Freedman and Edward F.

Elenz. The firm provides custom design, manufacturing and assembly for the audio-visual and electronics industries. It also produces audio-visual accessory equipment.

Optical Print Services, Inc., 823 North Seward St., Hollywood, CA 90038, is a new firm specializing in converting any ratio negative, such as anamorphic, Techniscope, three-strip YCM's, etc., to color reversal intermediates for the television and theatrical markets. Announcement was made by Paul R. Rutan.

Cine & Photo Supply Co., P.O. Box 393, Khartoum, Sudan, announced as "the first and only firm in the Sudan dealing in professional motion-picture equipment" has supplied the Sudan Broadcasting Service with such up-to-date equipment as Ampex recorders, outside broadcast vans, Onan generating plants, Bell & Howell projectors, and other products manufactured in the United States, through an agreement with the Sudan Film Unit of the Ministry of Culture and Information. The firm also produces and distributes motion pictures. Factory-trained technicians and engineers are available for the repair and service of motion-picture equipment.

Orrox Corp., of Opelika, Ala., has acquired CMX Systems, an award-winning developer of computerized systems for editing videotape. CMX was originally set up as a joint venture of CBS and Memorex subsidiaries. Equipment developed at CMX is designed for use by companies producing television programs and commercials. Announcement of the acquisition was made by William H. Orr, Executive Vice-President of Orrox. The plant in Opelika manufactures iron oxides for recording tape. The firm is aligned with Bayer AG of Leverkusen, West Germany, in combined research activities related to new magnetic materials.

Macbeth Sales Corp. has opened a West Coast regional office at 1640-S East Edinger, Santa Ana, CA 92705, it was announced by Vice-President Michael McGovern. Head of the new office is John Fonseca, formerly President of Ushio. In his new post he is responsible for a 12-state area in the West and Southwest. Macbeth Sales Corp., a subsidiary of Kollmorgen Corp., with headquarters at Newburgh, N.Y., is the exclusive distributor in the United States for Osram xenon bulbs and distributor of all other Osram special light sources.

Associated Sound Systems, 5558 Cahuenaga Blvd., North Hollywood, CA 91601, now provides independent service internationally on professional audio equipment for both warranty and out-of-warranty products, according to a recent announcement. The company services only professional audio equipment and is completely divorced from equipment sales, the announcement stated. Firms which have appointed Associated Sound Systems exclusive factory-authorized repair station on an international basis include United Re-

# SPECTRA<sup>®</sup> COMBI-5000

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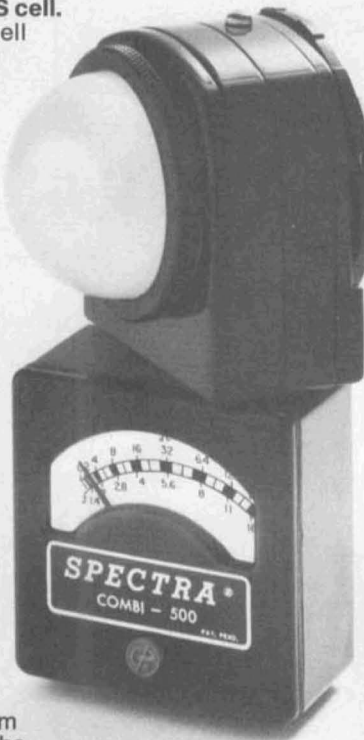
... because it's the world's only exposure meter combining the benefits of a dependable selenium cell and ultra-sensitive CdS cell. Use Combi's battery-free selenium cell for normal daylight or studio lighting for right-on readings. And, when the lights are low, a flick of a switch turns your Combi into a CdS meter with a total sensitivity range that exceeds 3,000,000-to-1.

**Special features:** free-turning, hemispheric Incident Light Receptor for fast, accurate readings of a majority of subjects; snap-in grids that instantly convert Combi to reflected-light reading meter; capability for direct footcandle readings; apertures from f/0.5 to f/45 and shutter speeds from 1/4000th second to eight hours; an integrated system of specialized contrast control aids for TTL groundglass readings; and direct aperture readout for your favorite film/shutter-speed combinations.

The innovative Spectra Combi-500 is one of a complete system of professional exposure meters, custom-made and calibrated by master technicians in California. For decades, Spectra meters have achieved critical acclaim from motion picture professionals who insist on absolute quality and reliability.

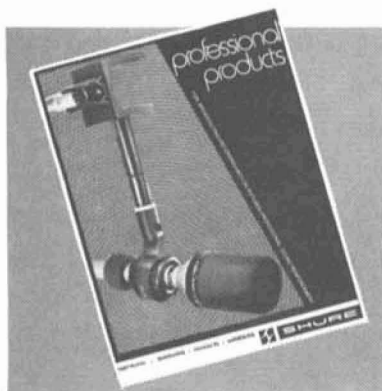
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Recording Electronics Industries and Russco Electronics. Associated maintains a complete stock of parts used in each of the manufacturer's products, making possible a three-day turn-around time for all repairs. In most cases this provides a door-to-door time of no more than five working days internationally, according to the announcement.

**A pre-flashing technique** developed by Movielab, Inc., 619 W. 54 St., New York, NY 10019, has been used in the filming of *The Taking of Pelham One, Two, Three*, "the first major, high-budgeted color motion-picture feature film totally pre-flashed utilizing a special process developed by Movielab, Inc.," the announcement stated. Flashing is used to provide a significant exposure index increase of up to two stops in actual film speed, enhancing shadow detail especially for low key or available light conditions. The flashing technique can also be used when shooting into the sun or when shooting pan shots from sunlit subjects to dark interiors. The Movielab pre-flashing method is used to eliminate the chance of irreparable damage that is possible with post-flashing of film following the completion of camera work. Movielab's pre-flashing method requires the laboratory to obtain the camera negative rawstock from the cameraman to make color balance and density tests which are developed and measured in order to arrive at the desired percentages for pre-flashing.

**A laser surveying system** that can "see" over mountains and "through" dense forest regions, developed for the U.S. Dept. of Agriculture's Forest Service by NASA scientists and built by RCA Corp., is expected to facilitate surveys of the 187 million acres of National Forest System land in 44 states and Puerto Rico. The system, called Laser Range Pole, is designed to allow projection of straight lines between adjacent property corners in any type of terrain. It consists of two components, a laser sender and a sensor or receiver. In operation the laser sender is located at one ground point and emits a narrow beam which is pulsed straight up, sometimes as high as a mile. From a second ground point, the sensor detects the pulse. The sensor is locked in at the exact direction and its sighting device is lowered to ground level where, within sight of the receiver, a surveying crew can mark the exact direction on the ground. The line is then extended by the regular sighting and marking methods back to the laser firing point.

**Kodak gelatine and acetate filters** are now being manufactured in metric dimensions (millimeters) instead of in "English" dimensions (inches) it was announced by Eastman Kodak Co. Actual dimensions of the filters will be essentially the same, so Kodak filters will continue to fit existing filter holders made by Kodak and other manufacturers, the announcement stated. There will be no change in product characteristics and the pricing structure will

remain the same. All filters presently listed in the Kodak professional products catalog will continue to be available.

**The x-ray security systems** in use at United States air terminals pose little threat to unprocessed films, it was reported by Eastman Kodak Co., following a thorough examination of the x-ray security devices by Kodak's Film Technical Services Div. The Kodak findings agreed with the findings of a survey conducted by the National Assn. of Photographic Manufacturers. In the Kodak report, however, it was noted that certain types of photographic films, especially those used for scientific research are, by design, extremely sensitive to any radiation exposure. Anyone carrying this type of film would be well advised to request a hand search, the report indicated. The report also indicated that because of the cumulative effect of radiation dosage, travelers may wish to have luggage containing photographic film hand searched if their luggage has been or is expected to be subjected to several pre-board inspections. It was noted that the designed operating dosage of x-ray security equipment varies considerably.

**An electrooptic light modulator** permitting a single laser beam to carry 25,000 telephone calls or 20 TV programs simultaneously has been developed at RCA Laboratories, Princeton, NJ 08540. Said to be the first electrooptic modulator truly



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**Troubled** by cameras that are always in need of repair and adjustment?

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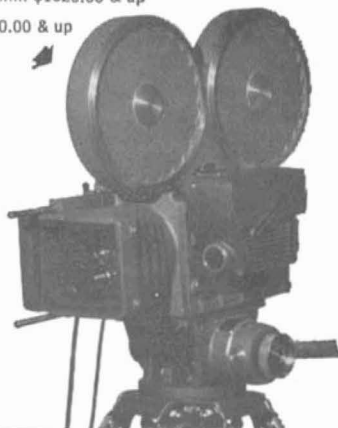


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compatible with integrated circuits and capable of spatial switching or aiming the direction of a laser beam, it can operate over wavelengths extending from the visible to the near infrared. The dimensions of the active volume of the device, which is made primarily of lithium tantalate, are 0.120 by 0.02 by 0.02 in. This includes a thin film 20-millionths-of-an-inch thick (150 strips of the film would equal the thickness of a human hair) of lithium niobate tantalate that acts as a waveguide for the laser light. The device is topped by minute interleaved metal fingers that control the functioning of the waveguide through the application of voltages. Both lithium niobate and tantalate have long been known for their strong linear elec-

trooptic, or Pockels, effect; that is, there is a relatively large change in the speed of photons passing through their crystal structures when an electric field is applied. The development of a diffusion technique that produces a thin film of lithium niobate tantalate on the lithium tantalate substrate makes the new modulator possible.

Varying the voltage applied to the thin film waveguide alters the direction and intensity of the light passing through. These variations can be demodulated at the terminal end of the communication system to produce the same type of electronic signals employed to provide audio and visual signals in telephone, radio and TV systems today. The device provides 80% modula-

tion of red light with 6 V and of blue light with 3 V. The announcement emphasized that the device is still in the research stage with certain problems to be solved before it can become a part of a practical optical fiber communications system.

**Zoom productions**, Mar Mansour St., Khatoun Bldg., Beirut, Lebanon, has been appointed sole trade agent for Eclair International, 14 rue Gaillon, 75002 Paris, France, for the countries of Saudi Arabia, Iraq, Jordan, Lebanon and Syria, it was recently announced. Eclair International manufactures mainly cameras and accessories, including super-8 and super-16 cameras.

**Kenneth M. Mason** has been elected Assistant Vice-President for Eastman Kodak Co. He was formerly General Manager of MP&AVMD, United States and Canadian Photographic Div., having been appointed to that post on 18 March. Mr. Mason joined Eastman Kodak in 1935. During World War II he served as a Navy lieutenant at the Naval Air Station, Anacostia, D.C., where he was head of the Processing Div. of the Photo Science Laboratory. Following the end of the war, he returned to Eastman Kodak as a staff engineer in the Motion Picture Film Dept.

**Karel Staes**, Doctor of Science, and Roland Verbrugghe, Civil Engineer of Electronics-Mechanics, both in the Research Department, Agfa-Gevaert, Mortsel, Belgium, are the recipients of the Denis Wratten Award presented each year by the British Kinematograph, Sound and Television Soc. for the most valuable scientific contribution to the *BKSTS Journal*. The paper for which the award was presented is "Some Consideration in the Colour Balance of Film for Colour Telecine Transmission" in the November 1972 issue of the *BKSTS Journal*.

**Du Pont Company's Photo Products Dept.**, Wilmington, DE 19898, has announced several management changes:

Robert C. Mason, National Sales Manager for Printing Products, was appointed to the new post of Director of Sales, Printing and Industrial Products in the Photo Products International Div.

William J. Sweet replaced Mr. Mason as National Sales Manager for Printing Products. He was formerly National Sales Manager for Industrial Products.

Jack F. Strange, formerly District Manager, Industrial Products, Clifton, N.J., replaced Mr. Sweet.

H. Theodore Harding, who retired as Manager, Micro-Imaging Products after 37 years of service with Du Pont was succeeded by Robert E. Reicher.

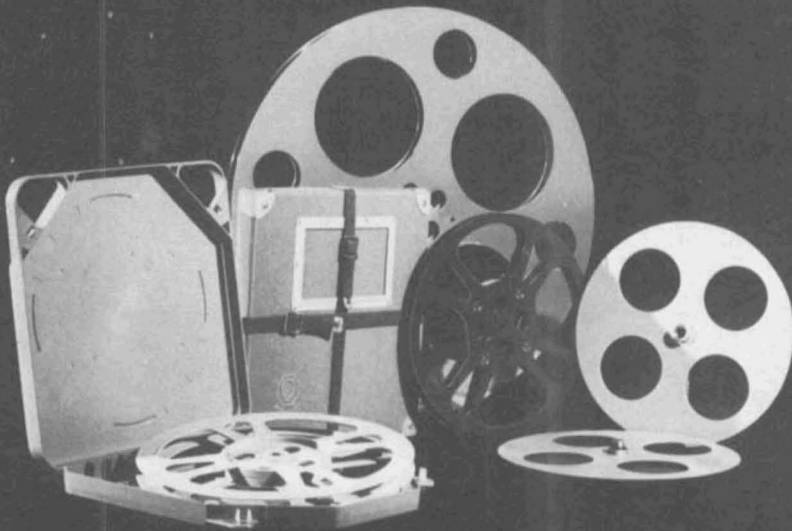
John L. Morgan retired as Technical Manager, Industrial Products after 32 years with Du Pont.

**Volker Bahnemann**, Vice-President of Ariflex Co. of America, 25-20 Brooklyn-Queens Expwy. West, Woodside, NY 11377, has been given new expanded responsibilities, it was announced by Paul Klingenstein, President. Formerly in charge of marketing and product develop-

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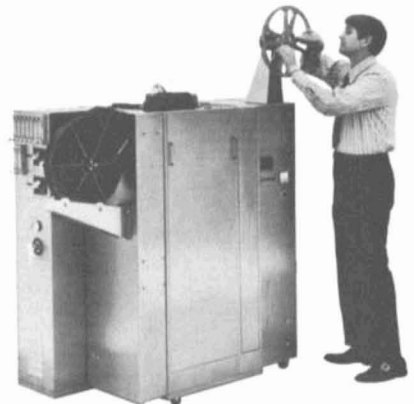
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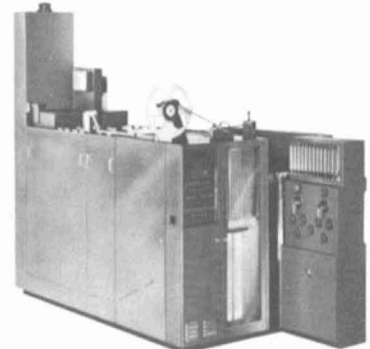
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ment, Mr. Bahnemann will now be responsible for the overall day-to-day management of the company. He joined Arriflex Co. of America in 1964, having previously been with Arnold & Richter K.G. in Germany. Arriflex Co. of America is the sole United States representative for Arnold & Richter, manufacturer of professional motion-picture cameras and accessories.

**Frank J. Deighan** has been appointed President of Strand Century Inc., 20 Bushes Lane, East Paterson, NJ 07407. He was formerly Vice-President of ITT, Submarine Cable Div. and was also corporate staff operations executive for the Illumination and Electrical Products Group. Strand Century Inc. manufactures lighting equipment and controls for the theatrical, television and architectural fields.

**Gerald B. Herzog** has been appointed Staff Vice-President, RCA Technology

Centers, it was announced by William M. Webster, Vice-President, RCA Laboratories, Princeton, N.J. Mr. Herzog will be responsible for the Solid State Technology Center with facilities at the RCA Solid State Division in Somerville, N.J. and RCA Laboratories in Princeton, N.J., and the Microwave Technology Center in Princeton. Mr. Herzog joined RCA in 1951 and initially worked on the development of solid-state circuits for television. In 1952, he helped design and construct the first transistorized TV receiver. Later he worked on ultra-high-speed circuits for information processing and large-scale integration of solid-state devices. He has twice received the David Sarnoff Award, RCA's top technical honor.

**David G. Cowden** has been appointed Operations Manager for the CATV Equipment and Installation operation of GTE Sylvania Inc., One Stamford Forum, Stamford, CT 06904. He has been with the

firm since 1952. His most recent post was that of Manager of Business Planning, Electronic Components Group at Waltham, Mass. In his new post he will be responsible for CATV equipment production, materials and project management, and quality control. He will be located at operation headquarters in El Paso, Tex.

**Leonard Sokolow** has been appointed Manager of Quality Control for Consolidated Film Industries, 959 Seward St., Hollywood, CA 90038, it was announced by Mel Sawelson, CFI Executive Vice-President. Mr. Sokolow has been with CFI for more than 25 years. In his new post he will be responsible for all of the laboratory control processes, including sensitometry, chemical and printer.

**Dr. James G. Davidson** has been appointed General Manager for Munsell Color Products, it was announced by Macbeth Color & Photometry Div., Kollmorgen Corp., P.O. Box 950, Newburgh, NY 12550.

**Alfred J. Cims** has been appointed Director of Quality Control for Bell & Howell's Consumer and Audio Visual Products Group. He has been with the firm since 1946. In his new post he will have direct responsibility for the quality control activities of parts fabricating, final product, internal manufacturing, material review and incoming inspection. He will also have functional control responsibility for all other manufacturing operations, reporting to the Vice-President of Operations.

**John M. Ehrenberg** has been appointed General Manager for Bell & Howell's Professional Equipment Div., a division of the Consumer and Audio Visual Products Group, 2201 Howard St., Evanston, IL 60202. Mr. Ehrenberg joined Bell & Howell in 1956 as an engineering co-op student while he was working toward his degree in mechanical engineering at Northwestern University. His most recent post was that of Director of Professional Marketing for the Professional Equipment Div. In his new post he will be responsible for the operational management of the division which will involve supervision of the activities of the manufacturing, engineering, financial and marketing administration areas related to the Professional Equipment Div.

**Howard Ball** has been appointed to the RCA Corporate Engineering Staff at the David Sarnoff Research Center, Princeton, NJ 08540, according to a recent announcement. He joined National Broadcasting Co. in 1951 as a broadcast engineer and subsequently became a design engineer with the RCA Film Recording Group in Hollywood. His most recent post prior to his present appointment was that of Chief Engineer, Color Television Div., RCA Consumer Electronics. Mr. Ball is the co-inventor of the Chromakey process and was co-receiver in 1969 of the David Sarnoff Award for the team development of the single tube color camera.

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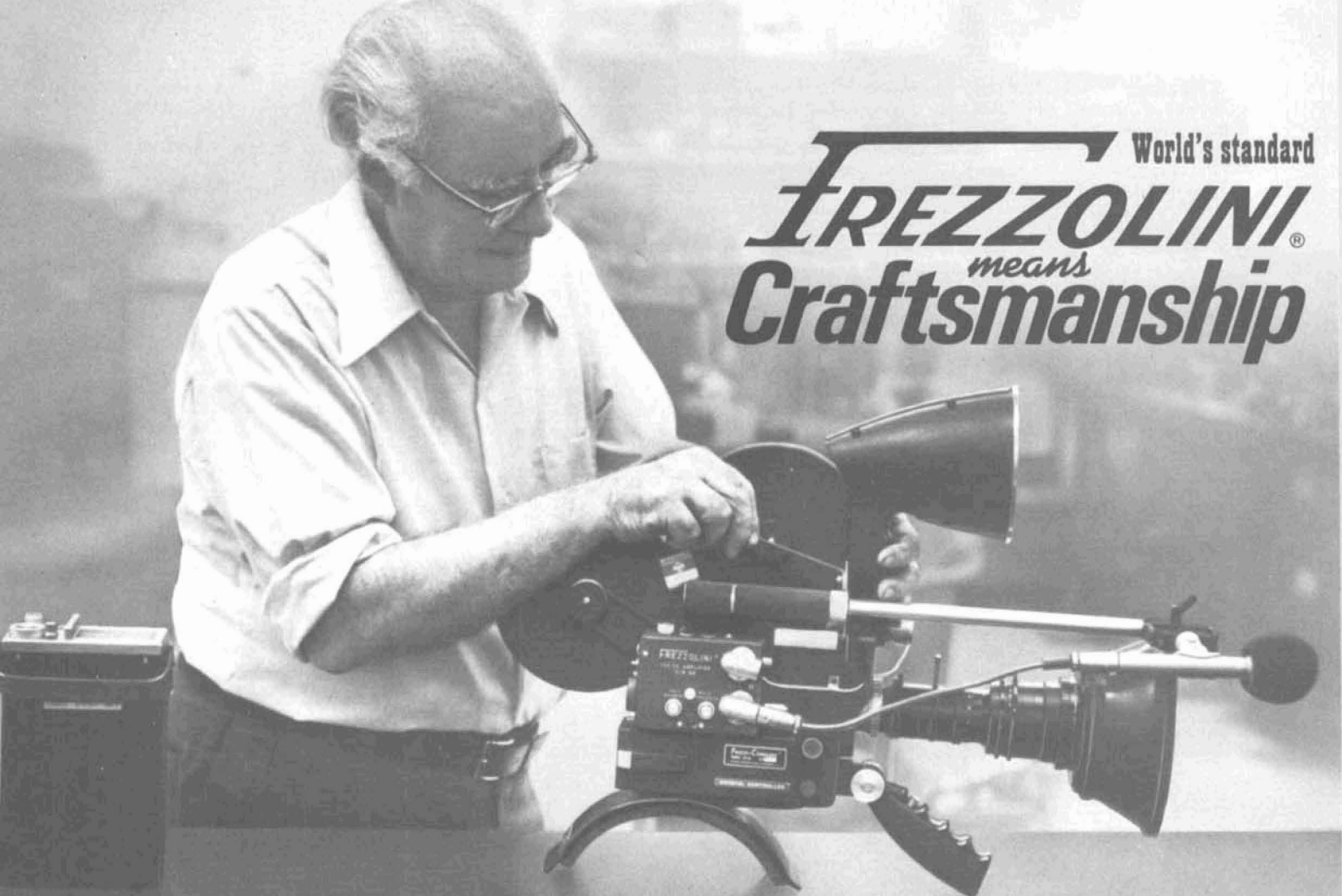
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**W. Wallace Warren** has been appointed Marketing Analyst, FM Transmitters, for RCA Broadcast Systems. He has been succeeded in his former post of Audio Products Specialist by Eugene L. Bidun. The announcement was made by Byron E. Fincher, Manager, Radio Station Equipment. Prior to joining RCA Corp. in 1972, Mr. Warren was with American Electronics Labs as a marketing manager for broadcast products.

**Carl F. Knopp** has been appointed Vice-President for Eastern Operations of Optical Radiation Corp., 6352 N. Irwindale Ave., Azusa, CA 91702. Continuing as Secretary of the company, he will be based at ORC's recently established high-intensity

lamp manufacturing division in Union, N.J. He was one of the founders of ORC in 1969; before that he was with Xerox Corp.'s Electro-Optical Systems Div. in Pasadena where he was Manager of the Advanced Systems Dept. of the firm's Illumination Systems Div.

**Joseph E. Bluth** has been appointed President and Chief Executive Officer of Image Transform Inc., 4142 Lankershim Blvd., North Hollywood, CA 91602, it was announced by Douglas V. N. McCutcheon, Chairman of the Board. Mr. Bluth was formerly Vice-President of Republic Communications, Inc. In 1966 he founded Vidtronics Co. of which he was President for six years. Earlier he had been Executive Vice-President and Director of Mark

Armistead TV, Inc., and Vice-President and Director of Glen Glenn Sound Co.

**Peter Coventry** has been appointed to the newly created post of BBC Manager, for Rank Film Laboratories Ltd., Denham, Uxbridge, Middlesex UB9 5HQ, England, it was announced by Raymond Dutfield, Managing Director. Mr. Coventry, who was formerly Assistant Plant Manager at Denham will devote his full time to the area of laboratory processing.

**George Hutchinson** has been appointed Night Superintendent of Consolidated Film Industries. He will be in charge of all laboratory night operations, including videotape, title and opticals and will report directly to Ted Fogelman, CFI Vice-President, Production.

**James H. Hanley**, Director of Industrial Relations for Consolidated Film Industries, 959 Seward St., Hollywood, CA 90038, since 1960, has retired. Charles Darian, formerly with Acme Film Laboratory, has been appointed to the post left vacant by Mr. Hanley's retirement, according to a recent announcement. Also announced was the appointment of Milt Shefter as Sales Manager for all services at the laboratory.

**Hughes G. Southwell** has been elected a Vice-President of the Bill Sandy Co., of Detroit, Mich. He was formerly Executive Vice-President of the Jam Handy Organization, a firm he had been associated with since 1952. The Bill Sandy Co. uses live productions, film, print and broadcast media to supply training and total communication systems to clients in the automotive, communications, petroleum and appliance industries. In his new post, Mr. Southwell will be responsible for conventions, business shows and special events.

**Warren E. Horst** has been appointed to the newly created position of Professional Photographic Product Manager for Pako Corp., 6300 Olson Hwy., Minneapolis, MN 55440. He will have the responsibility of creating up-to-date market profiles on the needs of the professional, commercial and industrial photographic industries. Pako manufactures processing equipment for the photographic, graphic arts, motion-picture, industrial and x-ray industries.

Other appointments announced separately include the appointment of Charles DeYoe to the post of Sales Coordinator for Pako's Photographic Products Div., the appointment of Richard Nolan to the post of Manager of Photographic Products Service and the appointment of Tom Nordquist as Cine/Pakon Service Manager.

**Bernard Happe**, for many years Technical Manager at the laboratory of Technicolor Ltd., P.O. Box 7 Bath Rd., West Drayton, Middx UB7 ODB, will retire at the end of March after more than 37 years service with the company. He will, however, continue his connection with the film industry as an independent consultant and writer on motion-picture technology; among other activities, he will be associated in this way with Technicolor's current program for establishing a dye-transfer release-print plant in China.

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