

Industry News & Educational Activities

Highlight of the IEEE Chicago Spring Conference on Consumer Electronics to be held 7-8 June at the Marriott Motor Hotel in Chicago will be a session on **Television Color Uniformity**, which was arranged jointly with the SMPTE. The session, chaired by K. Blair Benson, Director of Audio and Video Engineering for Goldmark Communications Corp., will be held Monday afternoon (7 June).

Five papers have been scheduled for presentation at the session: "Color Rendering in Television" by LeRoy DeMarsh of Eastman Kodak Co.'s Research Laboratories; "Automatic Color Correction of Broadcast Television Signals" by B. VanBentham of Thomson-CSF Laboratories, Inc.; "Current Usage of Vertical Interval Test Signals in Television Broadcasting" by Robert O'Connor, CBS Television Network; "Improving Color Uniformity Through the Use of the Vertical Interval Reference Signal" by C. Bailey Neal, GTE Sylvania; and "Matrixing for Colorimetric Fidelity in Color Monitors" by Charles Rhodes of Tektronix, Inc.

Session topics of the three other sessions are: Tuning and Remote Control, chaired by Robert Williams of Magnavox Company; New Developments, chaired by Fred Smith of RCA Solid State Div.; and Video Disc Update, chaired by Art Korpel of Zenith Radio Corp.

The Conference Chairman is Ted Rzeszewski of Quasar Electronics Inc.

Film 77, the fifth Biennial International Technology Conference and Exhibition, organized by the British Kinematograph, Sound and Television Society (BKSTS) to be held 11-15 July 1977 at Grosvenor House in London, was officially launched 25 February at a Sponsors Reception at Grosvenor House. Among other distinguished guests, the reception was attended by HRH The Prince Philip, Duke of Edinburgh, who has been Patron of BKSTS since 1973. "Film 77 will present an unrivalled opportunity to review the state of screen communications technology," Prince Philip said. Among other relevant remarks he noted that "Whether it is used for information, education or entertainment the screen provides the most compelling medium of communication the world has ever known and it is still in the process of rapid development."

Among SMPTE members attending the Sponsors Reception were Edmund DiGiulio, Milton Forman and Harry Teitelbaum.

Information about Film 77 is available from William Pay, Conference Coordinator Film 77, British Kinematograph Sound and Television Society, 110-112 Victoria House, Vernon Place, London WC1B 4 DJ, England.

Rensselaer Polytechnic Institute's Office of Continuing Studies, Troy, NY 12181, has announced three courses in Color Technology to be held during June. Principles of Color Technology will be held 7-11 June; Color Technology for Management will be held 15-16 June and Advances in Color Technology will be held 21-25 June. Principles of Color Technology is

a one-week intensive course providing both theory and practice in the description, specification and measurement of color. It has been designed especially for industrial personnel responsible for color matching and color control. Color Technology for Management, a two-day intensive course, is designed to aid executives responsible for research, production or sales of colored products in reaching correct management decisions based on the principles of color technology. It will describe what can and what cannot be expected from programs of instrumental color matching and control and from computer color matching. Advances in Color Technology is limited to applicants having had two or more years experience in instrumental color measurement. Topics to be covered in the course include Color Measurement; Colorimetry; Color Perception; Color Differences; Turbid-Medium Theory; and Color Appearance.

New SMPTE Test Materials Catalog: The new 1976-77 catalog of test materials for motion pictures and television was published by the Society in early March and is available from SMPTE Headquarters, Attn: Test Film Dept., upon request. The new catalog features a full line of test materials for the motion-picture and television industries. Items listed for the first time include a whole new group of monochrome television test patterns for setting up and checking TV cameras and telecine systems. Also listed are new super-8 sound test films in both 18 frames/s and 24 frames/s. The illustrated catalog also lists and describes films and slides to test film projector performance and for checking out movie sound-reproducing equipment.

The Society of Photo-Optical Instrumentation Engineers has announced that by special arrangement with the Sira Institute of England the evaluation services of the Lens Users Association are available by subscription through the offices of the SPIE. Subscribers receive competent, independent evaluation reports enabling them to choose the lenses that are technically and economically correct for each particular application. Each evaluation is a comparative assessment of the performance of a number of commercially available lenses. Once a specific lens type is chosen all known manufacturers are contacted and given the opportunity to include their products in the evaluation. They are chosen in each case to suit a defined application. The lens manufacturer's specifications are taken into account as are the relevant standards whether national or international, the emphasis being on the interests and requirements of the lens user. Lenses of all sorts can qualify for evaluation and the members of the Association guide the choice for each year's program.

In addition to the continuing evaluation reports, subscribers to the Lens Users Association are eligible to purchase previous reports on a variety of lenses.

The annual subscription rate is \$600. Members of the SPIE are eligible to receive a 10% discount.

The Sira Institute of England is a nonprofit organization operating internationally with laboratory and engineering facilities for research and development in all aspects of the design, manufacture and application of scientific and industrial instruments and control equipment.

Hope Reports Perspective analyzes 105 magazines related to the visual communications industry in a 16-page report entitled *Trade Journals* available from Hope Reports, 919 South Winton Rd., Rochester, NY 14618, at a price of \$10. The survey is part of the bimonthly "mini-report" series initiated last fall. The report is in the March issue which also contains an analysis of super-8 projectors and the future for this medium over the next 10 years.

A total of 189 publications concerned with the audiovisual field including electronic video, education, business, government, religion, medicine and law enforcement are considered in the survey. The final detailed analysis includes 91 domestic and 14 foreign magazines (all in the English language).

The Statistical Abstract of the United States 1975 contains 1050 pages. Data for the motion-picture industry, on pages 785 and 787 show a slight increase in receipts over 1974. For example, the first quarter of 1974 showed receipts (in millions) for motion pictures, amusement and recreation services of 3,189 and, for the first quarter of 1975, of 3,432.

The Statistical Abstract, is, of course, a useful reference volume for specialists in the many areas covered and it also contains interesting little items in the "did you know" category. For example, did you know that the life expectancy at birth for males rose from 66.6 years in 1960 to 67.6 in 1973 and for females from 73.1 in 1960 to 75.3?

In the field of education — did you know that there were 6,263 Science doctorates conferred in 1960 and merely 13 years later there were 18,948? In 1974 the number dropped slightly to 18,316.

Some, perhaps valid, conclusions can be drawn about the state of the nation, its industries and its people from a careful examination of the comparative statistics in the 1975 *Statistical Abstract*. It has a comprehensive index making it easy to find the section of special interest to the reader. *The Statistical Abstract of the United States 1975* is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402 at a price of \$10.50 or \$8 paperback.

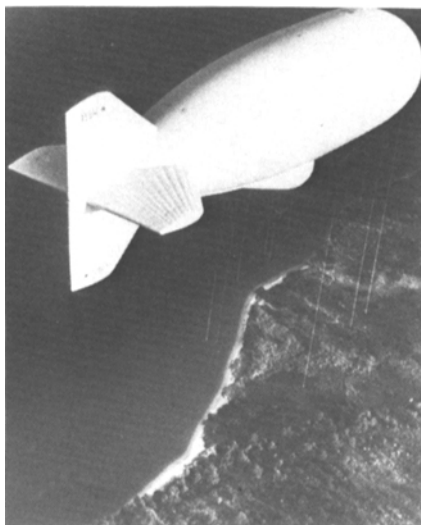
Primary Cinema Resources: An Index to Screenplays, Interviews and Special Collections at the University of Southern California, a 312-page book authored by two USC graduate students, Christopher D. Wheaton and Richard B. Jewell, is a catalog providing information on accessibility of screenplays, taped interviews with filmmakers and movie memorabilia housed in the University of Southern California's Department of Special Collections. Published by G. K. Hall & Co., Boston, Mass., the index gives film scholars and enthusiasts access to material basic for film appreciation and research.

MPL Table Talk #9, "Titling: The Neglected Art," the latest issue in the Motion-Picture Laboratories "How-To-Do-It" series, is available upon request from the Publications Editor, MPL, Inc., Box 1758, Memphis, TN 38101. *Table Talk #9* covers all phases of titling including composition, type setting, title background selection, spacing titles for TV use,

shooting the titles and preparing them for the laboratory.

Mirrors of Time is the title of a 25-min 16mm color motion picture produced by Gulf Oil Corp. showing how oceanographers and other earth scientists penetrate the floor beneath the ocean depths with sophisticated sensing devices in search of new sources of energy. The film is available on free loan to high schools, colleges, business and industry and community groups from Association Films, Inc., 866 Third Ave., New York, NY 10022.

Modern Media, P.O. Box 252, Palo Alto, CA 94302, has announced a new two-hour cassette tape and book combination entitled *Beginning Photography*. A detailed course, it has been designed for classroom instruction. The price is \$12.50 (\$13.50 for residents of California).



A balloon-borne telecommunications and broadcast system will provide the country of Nigeria with an expanded telephone, television and radio service as the result of a contract (valued at approximately \$150 million) awarded by the Ministry of Communications of the Federal Republic of Nigeria to TCOM Corp., a subsidiary of Westinghouse Electric Corp. The service to be provided will use ten aerodynamically stable, tethered balloons, called aerostats, which support electronic transmitting and receiving equipment at altitudes of 10,000 to 15,000 ft (about 3 to 5 km). Communications services of the TCOM system will include broadcasting television and FM radio programming over most of Nigeria (an area larger than the states of Texas and Oklahoma combined) connecting the state capitals with Lagos, the national capital and providing a high-density telephone trunking network between the primary communication centers and also interconnecting local exchanges with the primary centers. The system provides a secondary center telephone trunking loop with connections to the state capitals, providing a community telephone service for remote subscribers, and offering a nationwide mobile telephone service. Shown above is one of the aerostats (tethered balloons).

As many as 10,000 TV pictures can be stored on a single 12-in disc through the use of a new method developed by RCA Corp. which combines laser and optical technologies. The method, recently announced, is distinct from the RCA SelectaVision videodisc system which uses a capacitance pickup technology especially de-

veloped for in-home use (*Journal*, p. 582, July 1972). The developmental system can store one frame of TV information in three-thousandths of a square inch, the announcement explained. In other words, tracks on the disc for 30 TV pictures occupy space only as wide as a human hair.

In making a recording, the developmental equipment employs a medium power laser, modulated by an electric-optic modulator, focused to a very fine spot on the disc which is spinning at 1800 r/min. The disc has a special thin-film coating which, when affected by the laser, provides a permanent recording of a single TV frame in one revolution of the disc.

Movement along the disc radius is accomplished by using a mechanical actuator which permits rapid access to the approximate location of the desired recorded track. Precise location is made possible by using an electronic servo system to deflect the laser beam. Except for the laser beam there is no contact between the surface of the record and any part of the recording mechanism thus there are no wearing parts in the process. The equipment makes use of two laser stations, one positioned either to record or play back while the other is simultaneously reproducing information from other tracks, thus making practical continuous output in a broadcast situation.

The system's mini-computer keeps track of the pictures in storage and controls the preparation of picture sequences for broadcasting. Stored pictures can be identified by number or name and the computer can handle up to 16 alphanumeric identification characters per picture. When the RCA system is on the air its computer memory can be interrogated as to what slides are in the file. The system can also call up and display on demand all the pictures in a given category.

Although only still pictures have been stored and played back so far, the new technology has the potential of recording motion from film, videotape or live sources.

Comcast Corp., a multi-system cable TV operator located at 227 Barclay Bldg., Bala-Cynwyd, PA 19004, has acquired two cable TV systems passing 50,000 homes and serving 22,000 subscribers in Flint, Hillsdale and Jonesville, Mich., according to a recent announcement. Comcast presently serves 42,000 subscribers in eight cable TV systems encompassing 23 franchised areas.

Angenieux Corp. of America, 1500 Ocean Ave., Bohemia, NY 11716, sole distributor and factory representative for Angenieux lenses in the Western Hemisphere, has expanded its marketing program by the establishment of a new manufacturing facility in Hudson, N.H. The new facility will be known as North American Angenieux. Earlier, the Angenieux Service Corp. of California was formed to provide service, including factory test equipment, factory-trained technicians and parts inventories for the motion-picture and television industries on the West Coast. A similar facility has been established to serve the East Coast motion-picture and television industries at the address shown above.

R. G. Photographic, Inc., 1511 Jericho Turnpike, New Hyde Park, NY 11040, has announced a new service, super-8 ink edgenumbers. The new system was designed and built at R. G. Photographic specifically for super 8. As planned, the new system will allow conforming between super 8 and 16mm giving greater flexibility and allowing the advantage of using the best format for the particular situation.

Buck Film Laboratories, 49 Denham Studios, Buckinghamshire, England, is a newly formed company specializing in 8mm, it was announced by David Buck, formerly General Manager for Humphries Film Laboratories. The new company has installed the latest Peterson multi-tank continuous optical reduction panel printer together with other 8mm services including sound transfer facilities.

Eastman Kodak Co. has opened new offices as part of the expansion of its Whittier marketing and distribution center, headquarters for Kodak's Pacific Southern region. The two-story structure containing some 42,000 ft² of floor space, is the fourth addition to the Kodak regional headquarters (located at 12100 Rivera Blvd. in Whittier) since 1960. The new building will serve as marketing headquarters for the Pacific Southern region which encompasses southern California, Arizona, southern Nevada and Hawaii. The first floor comprises training, demonstration and display areas with regional and district marketing areas occupying the second level.

Getting It On Video, a new series of sound filmstrips designed for instruction in basic television production techniques, has been announced by Swartwout Media Works, 6736 East Avalon Dr., Scottsdale, AZ 85251. The filmstrip set consists of six filmstrips, six cassettes with audible and inaudible (50-Hz) advance signals, six instructional booklets and a storage album. The videocassette package consists of two 50-min 3/4-in color videocassettes and six instructional booklets. Each filmstrip is about 80 frames (10 to 15 min) in length. Each videocassette is about 45 min in length. Topics covered are: The Video Camera; The Videotape Recorder; Portable and Single Camera Systems; Graphics for Television; Lighting and Special Effects; and Audio. The filmstrip set is priced at \$115. The two videocassettes are priced (together) at \$295.

The Bell & Howell Professional Equipment Division, 7100 McCormick Rd., Chicago, IL 60645, has acquired the complete line of Research Products Special Effects Optical Printers, it was recently announced. Bell & Howell will continue to manufacture the complete line including the aerial image optical printer, the standard optical effects printer, and the registration contact printer, all with the optional Bell & Howell Automatic Additive Color Light Source or a subtractive light source. Bell & Howell will also produce the Title-Optical Printer which provides 16mm optical effects printing.

The Westinghouse Electric Supply Co. (WESCO) has established two new district offices, the Rocky Mountain District in Denver, Colo., and the South Central District in Cincinnati, Oh., according to a recent announcement. Bill G. Oliver has been appointed District Manager for the Rocky Mountain District and William Busse is District Manager for the South Central District.

Eastman Kodak Co. has announced a material change in the cores utilized in Kodak super-8 film cartridges, the cores now being formed of polystyrene material. This improvement is expected to be useful to those who are reclaiming plastic material. The surface of the new core appears dull, in contrast to that of former cores (shiny) molded from a butyrate material. The change represents an advancement in film transport characteristics of Kodak super-8 film cartridges, the announcement stated. The

image-forming quality with these cartridges is said to remain unchanged.

RCA Broadcast Systems has acquired a new compact TV van, a lightweight nimble vehicle for fast transport of TV crews and electronic equipment to news events and other remotes, according to a recent announcement. The van has a Ford Econoline chassis with a 10½-ft-long custom-molded fiberglass body. A display vehicle carried two TKP-45 cameras, a 22-lb portable; a TR-600 videotape recorder; a video switcher; and audio and intercom equipment. Two on-board 6-kW generators provide power for air conditioning, lighting and the technical equipment. The van's forward camera mount is atop the windshield on the passenger side. A hatch is provided in the cab roof permitting the camera operator to stand upright to shoot pictures ahead of or on either side of the vehicle. A tailgate converts to a second, rear-view camera platform when the van is leading a parade or a procession. A third camera position on the roof deck allows for panoramic picture sweeps.

International Video Corp., 990 Almanor Ave., Sunnyvale, CA 94086, and Robert Bosch GmbH of West Germany, have announced an agreement whereby IVC will manufacture and market broadcast videotape recorders developed by the Fernseh division of the Bosch organization on a worldwide basis. IVC has been licensed to build and market Fernseh's BCN line of broadcast color recorders using 1-in videotape. Initial units in the NTSC color standard will be produced by the Bosch Fernseh division until IVC phases the line into production in 1977.

Gold Honor Awards and honorary memberships were presented to GTE Sylvania Inc. and three of its executives by the American Soc. of Lighting Directors. The awards cited Melvin H. Moehring, Thomas J. Holland, Robert E. Levin and the company for the development of tungsten-halogen lamps used in studio lighting. A special tribute was given to Dr. Levin for his lecture presentations on theatrical lighting and his contributions to the *GTE Sylvania Lighting Handbook*. In the last 10 years the American Soc. of Lighting Directors has presented only 10 awards, including the four GTE Sylvania presentations noted above.

Don V. Kloepfel retired from DeLuxe General, Inc., in Hollywood on 1 April. He had been affiliated with DeLuxe for 21 years and was Head of Projection Services at the time of his retirement. Following his retirement he became a consultant in motion-picture engineering, forming a company known as Don. V. Kloepfel & Associates at 421 East Cornell Dr., Burbank, CA 91504.

Recognized industry-wide as an authority in his field, Kloepfel had served earlier as consultant in the installation of projection systems for several of the motion-picture industry's major theaters. He also designed remote control projection-editing devices for network television programming. During World War II he had been a member of a top secret group which created the briefing film that led to the B-29 raids on mainland Japan.

Richard H. Wood has been appointed National Sales Manager for Image Magnification Inc., 538 Bloomfield Ave., Verona, NJ 07044, it was announced by Donald E. Quinlan, President. Prior to joining Image Magnification, Wood was Applications Engineering Manager for the Broadcast Division of Philips Audio Video



John Lewis, a newly elected Fellow of the SMPTE, who was unable to attend the Fellows Luncheon held at the 117th SMPTE Conference in Los Angeles in the fall of 1975, was presented with the Fellow Award by SMPTE President, Kenneth M. Mason, as shown above (Lewis is at the left). The presentation took place in the offices of EUE/Screen Gems where Lewis is Technical Director of the Optical Department. A graduate of Washington & Jefferson College in Washington, Pa., where he received the M.A. degree, he also did graduate work at Cornell, Chicago and Princeton Universities. He spent two years (1943 to 1945) developing an analog

computer for use with long distance radio direction-finder networks.

He authored a tutorial paper, published in the June 1962 issue of the *SMPTE Journal* ("Additive Exposures in Process Photography") in which he described a technique he had developed for computing gamma reduction by post fog exposure in motion-picture printing.

In 1973 he was granted a U.S. Patent for a precision intermittent film movement especially adaptable to optical immersion printing and contributing greatly to the improvement of the quality obtained.

Systems Corp. and before that he had been with the Commercial Electronics Systems Division of RCA Corp. Earlier he had been an engineer with RCA Great Britain Ltd., and the Australian Broadcasting Commission. In his new post he will direct marketing and sales activities in the United States and abroad. Image Magnification manufactures large-screen TV projectors including Magna Image I (monochrome) and Magna Image III (color) used in CCTV systems.

Joseph F. Fisher retired from Aeronutronic Ford Corp. (formerly known as Philco-Ford) on 28 February after 42 years of service with the firm. A member of the SMPTE since 1954, Fisher's other professional affiliations included membership in the Institute of Electrical and Electronic Engineers. He was elected an IEEE Fellow in 1961 for his contributions to color television. His services to the SMPTE included membership on the SMPTE Subcommittee TV 14.12 on Television Test Patterns. He was Session Chairman of the Space Technology I session at the 101st Spring Conference in New York in 1967, and he also presented a paper at the Space Technology II Session describing the television system installed in the NASA Mission Control Center near Houston, Tex.

Setsutaro Kobayashi, Chairman of the Board of Fuji Photo Film Co., Ltd., Japan, is the recipient

of a 1976 International Man of the Year Award from the Photographic Manufacturers and Distributors Assn. The award was presented on 13 March at the Association's award dinner in Chicago. Traditionally three awards are presented each year, one to a Japanese, one to a European and one to an American. The European recipient was Hans Gerhard Kinderman (Germany) and Victor Silverman (USA). In his acceptance speech, Kobayashi announced the establishment of the Scholarship Program for Americans under which aid will be provided for the study of the photographic art and science at various institutions in the United States. Fuji Photo Film is represented in the United States by Fuji Photo Film U.S.A., Inc., 350 Fifth Ave., New York, NY 10001.

Karl Struss, the distinguished cinematographer, winner in 1928 of the first Academy Award for Cinematography, was Artist-in-Residence at the University of Michigan for seven days beginning 24 February. The occasion was a film festival honoring Struss, who is now 89 years old.

The Academy Award was for the 1928 film, *Sunrise*. The exhibition, entitled Karl Struss: Man With a Camera, included showing of *Dr. Jekyll and Mr. Hyde* (1931); *Island of Lost Souls* (1932); and *Journey Into Fear* (1942). During his career, Struss photographed films for such well-known directors as Chaplin, DeMille, Griffith and Mamoulian.