

# Industry News & Educational Activities

**Stop-Copy**, an electronic coding system to combat illegal duplication (pirating) of programs from videotape, a practice costing the motion-picture industry millions of dollars annually according to industry estimates, has been developed by Byron Motion Pictures, Goldmark Communications Corp. and Teletronics International in a joint engineering venture. Each of the three companies involved in the development provides major program transfer services from tape and film to magnetic videotape for television viewing.

In operation the Stop-Copy system uses a specially-devised technique to code electronically the magnetic videotape and prevent program duplication. The special coding allows a program to be played through the videocassette player for television viewing. When an attempt is made to record the program illegally on another videocassette recorder — a common practice in program pirating — the coding acts to prevent video recording. The result is a blank videotape copy.

An early design version for most existing recorders will soon be available for licensing, according to K. Blair Benson, Vice-President, Engineering, for Goldmark Communications. A more advanced version of the Stop-Copy device is expected to be produced soon and will be compatible with a new generation automatic skew corrector of videocassette players, Benson said. The skew corrector was developed by Goldmark Communications to prevent picture skew or distortion caused by tension variations in the videotape as it moves through the player mechanism (*Journal*, p. 540, June 1974).

Benson emphasized that the Stop-Copy device might not be an effective deterrent against a skilled technician engaged in program pirating; nevertheless, he added, the Stop-Copy device may well be a major step toward curbing illegal practices.

**Color Research and Application**, a new quarterly endorsed by the Inter-Society Color Council, The Colour Group (Great Britain) and the Canadian Society for Color, is published by Wiley-Interscience, a division of John Wiley & Sons, 605 Third Ave., New York, NY 10016. The subscription rate is \$35 a year (\$15 for members of the Inter-Society Color Council and its member societies). The new quarterly is intended for specialists in color — optical engineers, textile chemists, designers, and all others involved with color whether in business, education, art, design or industry. Editor-in-Chief of *Color Research and Application* is Fred W. Billmeyer, Jr. Associate Editors are Rolf Kuehni, Michael Pointer and Gunter Wyszecski.

**Quality control procedures** relating to the usage of the new Agfa-Gevaert Gevachrome II color reversal films was the subject of a seminar held recently at Scranton, Pa. The seminar, conducted by David Phillips, Technical Manager, Motion Picture Products Div., Agfa-Gevaert, Inc., covered all aspects of the

Gevachrome II color reversal films from two-stop forced processing (dry-to-dry in 18 min normal processing) to specific quality control. The new films had been tested by the news-gathering and technical personnel of WDAU-TV in Scranton. The Antwerp (Belgium)-based firm of Agfa-Gevaert N.V. is represented in the United States by Agfa-Gevaert Inc., 275 North St., Teterboro, NJ 07608.

**Marconi Space and Defense Systems Ltd.**, a GEC-Marconi Electronics company, is leading a team of researchers studying the spacecraft element of color television and sound broadcasts direct to domestic receivers for the European Space Agency (ESA). A number of payload configurations are being considered and the ESA requirement, primarily, is for a satellite system capable of carrying at least two television programs and able to serve areas corresponding in size to typical European countries. The special problems of this type of satellite payload relate to the high prime and radiated powers that must be handled. A typical payload may require as much as 2 kW of prime power and this requires special techniques for the control of thermal dissipation and protection of equipments in the various operating modes. As a result of European studies, developments in high-power traveling wave tubes are well advanced and 1 kW of radiated power in the allocated frequency band of 11.7 to 12.5 GHz has been reached, according to a Marconi announcement.

**Kodak Caribbean, Ltd.**'s new headquarters at Carolina, Puerto Rico, were dedicated 5 December. An 88,000 ft<sup>2</sup> structure, the construction of which was begun in May 1974, accommodates some 130 workers and is designed to permit expansion of both warehouse and office space to meet future growth needs. Architectural highlights include a "high-rise" warehouse that allows stock pallets to be stacked seven high. The design, which maximizes land use, is the first to be incorporated in a Kodak International Division company structure in the Western Hemisphere. Office areas make use of solar reflective glass to conserve energy. Furniture, plants, and divider groupings are used to define working spaces without the need for interior walls.

**RCA Broadcast Systems** will supply and install a complete color TV production studio and two transmitting systems to the North West State of Nigeria to initiate TV service in that state, it was announced by RCA Corp., Moorestown, NJ 08057. Although other parts of Nigeria, Africa's most populous nation with some 58 million people, have had black-and-white TV since 1959, the North West State has been without such service and will be able to see their first TV programs in full color when the new system becomes operative.

The RCA equipment, which will operate on the PAL-B television standard, will be installed in Sokoto, the capital of the North West State. The studio complex will have the

ability to originate programming live, on film or on videotape. A custom-built mobile broadcast unit for use away from the studio will also be supplied. The mobile van will carry RCA's TK-45 color cameras.

**Marconi Communications Systems Ltd.**, a GEC-Marconi Electronics Company, Marconi House, Chelmsford CM1 1PL, England, will supply additional television broadcasting equipment for use in the CN Tower in Toronto — the tallest self-supporting structure in the world — according to terms of an agreement with Canadian Broadcasting Corp. and Canadian Marconi Company. The Marconi equipment to be supplied consists of a unit combining the outputs of two television stations and broadcasting them through a single antenna system. The new Marconi unit, called the Rotamode, will combine the transmitter outputs of ETV Station CICA broadcasting on Channel 19 and the French-language Station CBLFT broadcasting on Channel 25 into a single antenna. The antenna has a split-fed arrangement capable of broadcasting both channels from its upper or lower half should the need arise.

**Dolby Laboratories** has opened a new office and laboratory at 731 Sansome St., San Francisco, CA 94111. The office will combine some of the activities now carried out in London with those of the Dolby office in New York which is scheduled for closing subsequent to the opening of the San Francisco office. The new office will have the functions of research and development, new market development, licensing and United States sales of Dolby professional noise reduction equipment manufactured in London. The company's policy of specialization in noise reduction technology will remain unchanged, the announcement stated.

San Francisco executives will be Ray Dolby, President; David Robinson, Vice-President, Engineering; Ioan Allen, Vice-President, Marketing; Ian Hardcastle, Vice-President, Licensing; John Gladysiewicz, Vice-President, Finance and Administration. Morley Kahn who has been Vice-President, Manager of U.S. Operations at the New York office will leave the company at the end of January.

The Dolby factory and offices in London will be responsible for manufacturing and for the international sales of the company's professional noise reduction products.

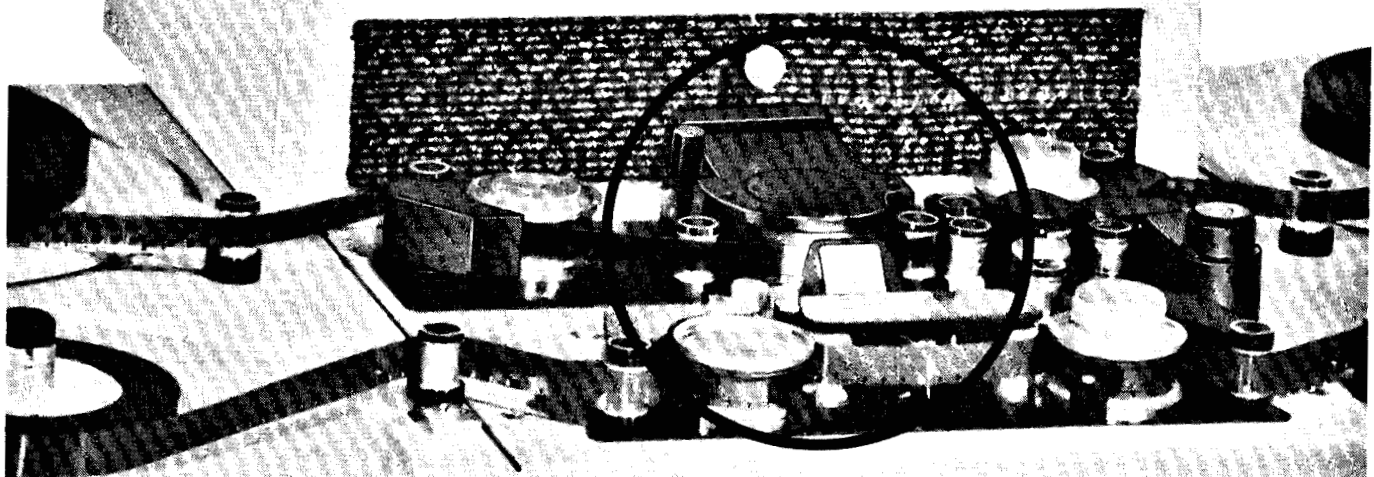
**A set of guidelines** for describing the closest focusing capabilities of zoom lenses has been established by Vivitar and Ponder & Best, Inc., 1630 Stewart St., Santa Monica, CA 90406 to clarify the capabilities of zoom lenses offering some form of macro, macro-focusing or close-focusing features. Lack of current guidelines to assist consumers in making selections from the increasing number of zoom lenses on the market today with divergent macro, macro-focusing or close-focusing capabilities was cited as the main reason for the development of the new Vivitar zoom lens classification.

Vivitar's new zoom lens classification for the closest focusing capabilities of any particular zoom lens apply the term "macro" only to lenses that produce a life-size (1:1) image with true edge-to-edge field flatness. A Vivitar zoom lens bearing the term "macro-focusing" is defined as having a reproduction ratio in the range of 1:1.2 to 1:2.2 with field curva-

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ture characteristics comparable to lenses using extension tubes in the near-macro range. Zooms called "close-focusing" have reproduction ratios in the range of 1:2.3 to 1:4.4 at their closest focus positions. Zooms with reproduction ratios falling below this ratio at closest focus are classified as "normal" zoom lenses. For consistency with the newly established classifications, Vivitar is reclassifying its own Automatic Fixed Mount 85-202mm  $f/3.8$  lens from a "macro-focusing" to a "close-focusing" zoom lens.

**The Plastic Reel Corp. of America**, 640 South Commercial Ave., Carlstadt, NJ 07072, has established a new Customer Service Dept. for the audiovisual industry. The department will work with audiovisual suppliers to develop packaging, storage and handling materials for the new products in advance of the introductory marketing date. The announcement noted that for certain new products traditional types of film cans, reels, storage cases, etc. may not be suitable, and new kinds of packaging must be devised. Among such products are newly developed tape units, disc-TV players, and various large-screen and automated TV receivers, the announcement stated.

**Karol Media**, P.O. Box 2000, South Hackensack, NJ 07606, a new film distribution company, has been established by Fontaine Kincheloe, formerly Vice-President of Modern Talking Picture Service. The new company will distribute sponsored films for companies, associations, and government agencies as well as selected educational films on a rental basis. The company will also provide specialized consulting and marketing services for sponsors, producers and for other distributors.

**Cinema Products Corp.**, 2037 Granville Ave., Los Angeles, CA 90025, has announced the availability of a lapel pin which is an accurate and detailed miniaturized reproduction of the CP-16R camera. The pin (which has a silver-like finish) is available without charge to all owners and users of CP-16 cameras, reflex or nonreflex models. In requesting the pin, company affiliation and title and the serial number of camera owned or operated should be specified.

**Duca-Richardson, Inc.**, Evergreen, CO 80439, is a new firm formed by Robert F. Richardson and James F. Duca, formerly of Computer Image Corp., Denver, Colo., to design, manufacture and market a new generation of production, master control, editing and routing switching systems for the television industry. Richardson heads the company and Duca is Senior Vice-President and Director of Technology.

**A & G Concepts**, a San Diego-based television production company, will produce a series of television commercials for an Arabian bottled water company, it was announced by Phil Aronson, A & G President. The commercials will be made for Gulfa Natural Mineral Water of Dubai, one of the United Arab Emirates. The water is bottled with the aid of Evian, a French bottling firm. The commercials will be the first ever produced for a bottled water firm in that country where "water is far more precious than oil," Aronson said.

**Emmett N. Leith**, Professor of Electrical Engineering at the University of Michigan, and **Juris Upatnieks**, Staff Scientist at the Envi-

ronmental Research Institute of Michigan, are the first recipients of the R. W. Wood Prize awarded by the Optical Soc. of America. The prize was established by the Optical Society to recognize individuals for outstanding discoveries, scientific and technological achievements and/or inventions. The prize recognizes contributions that open new fields of research or significantly expand established fields. Leith and Upatnieks were honored for their contributions to holography, in particular for their recognition of the improvement in signal-to-noise to be gained by off-axis holography and their demonstration of this method.

A paper by Leith and Upatnieks, "Reconstructed Wavefronts and Communication Theory" in the October 1962 issue of the *Journal of the Optical Society of America* described the theory and practice of novel and highly effective methods for holography. A paper authored by Leith and Upatnieks with B. P. Hildebrand and K. Haines, "Requirements for a Wavefront Reconstruction Television Facsimile System" appeared in the October 1965 issue of the *SMPTE Journal* and (with A. Kozma and N. Massey) "Hologram Visual Displays" appeared in the April 1966 *Journal*.

Their subsequent work has greatly expanded the applications of holography, the citation notes, but it was their initial research done without benefit of the laser that is responsible for modern holography.

**Gary Gross** has been appointed National Marketing Manager for Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025, it was announced by Ed DiGiulio, President. In his new post he will be responsible for expanding Cinema Products domestic dealer network to meet the demand for Cinema Products 16mm and 35mm professional motion-picture cameras and accessory equipment.

**Robert Kalin** has been appointed General Manager of WRS Motion Picture Laboratory, 210 Semple St., Pittsburgh, PA 15213, it was announced by F. Jack Napor, President. Kalin has been with the firm since 1963. His most recent post prior to his new appointment was that of Production Manager.

**Peter Comandini** has been appointed Director of Technical Sales for Image Transform Inc., 4142 Lankershim Blvd., North Hollywood, CA 91602. He has been with the company since 1972 where his most recent post prior to the new appointment was that of Assistant Director, Customer Service.

**David H. Phillips** has been appointed Technical Manager, Motion-Picture Products, for Agfa-Gevaert, Inc., 275 North St., Teterboro, NJ 07608, it was announced by Robert A. M. Coppenrath, President. Prior to joining Agfa-Gevaert, Phillips had been supervisor of quality control for Cinelab Corp. in New York. In his new post he will provide technical assistance for users of Agfa-Gevaert products and will assist in the technical training of the firm's sales and laboratory personnel.

**Frank Rush** has been appointed senior field sales engineer in broadcast video sales for Ampex Corp., 401 Broadway, Redwood City, CA 94063, it was announced by Richard Sirinsky, National Sales Manager, Ampex Audio-Video Systems Div. Rush will be headquartered in Bethesda, Md., and will be re-

## Erratum

NOVEMBER 1975 *Journal*, p. 855

The photograph is wrongly identified. The two people at the left of the photo are not Mr. and Mrs. John Newell. They are Mr. and Mrs. Burton Stone.

responsible for sales in Pennsylvania, Maryland, The District of Columbia, Virginia, and West Virginia.

**Albert E. Audick**, former Commander of the American Forces Radio and Television Service has been appointed the Washington, D.C. area Liaison Manager for International Video Corp. Col. Audick, who retired from the U.S. Air Force in November 1975, will be responsible for IVC's liaison with all government and government support organizations in the Washington, D.C. area. Headquarters of IVC, manufacturer of color videotape recorders and cameras for use in broadcast and closed-circuit television, are at 990 Almanor Ave., Sunnyvale, CA 94086.

**Leonard W. Hollander**, formerly Vice-President of Cinemobile Systems, Inc., has been appointed Vice-President of Nationwide Rentals for F&B/CECO with headquarters at 7051 Santa Monica Blvd., Hollywood, CA 90038. In addition to Cecomobiles and the regular lines of camera, lighting, grip and sound equipment rentals, Hollander plans to inaugurate a total production service which will provide all below-the-line services required by the producer including hiring crews, scouting locations, payroll and audit services, budgeting, props, catering, etc. Hollander's appointment is in line with F&B/CECO's program for a west coast expansion.

**James L. Wassell** has been appointed Vice-President, Marketing, for Kalvar Corp., 907 South Broad St., New Orleans, LA 70185, it was announced by Harold Harsh, President and Chief Executive Officer. Wassell had held the post of Central Regional Manager for Kalvar since 1972. He was Director of Marketing for the Professional Equipment Div. of Bell & Howell and General Manager of Hollywood Film Co. before joining Kalvar's affiliate, Metro/Kalvar, Inc.

**Allen Stagg** has been appointed to the post of Cassettes Manager at Rank Video Centre, it was announced by Raymond Duffield, Managing Director, Rank Film Laboratories Ltd., Denham, Uxbridge, Middlesex UB9 5HQ, England. Stagg was previously Recording Studio Coordinator (UK) for Polydor International. Earlier he had been General Manager of E.M.I. Studios and Head of Sound at MGM Studios. In his new post he will be responsible for the administration of a videocassette and nonbroadcast videotape recording service.

**Frank Worthington** has joined Eprad, Inc., Box 4712, 123 West Woodruff, Toledo, OH 43620, as Central Regional Sales/Technical Support Manager, it was announced by Al Boudouris, Eprad President. Worthington's headquarters will be in Cincinnati and he will be responsible for providing technical sales and service support to Eprad dealers in the Central Region. He will report to Barry Zadi-gian, Eprad Vice-President.