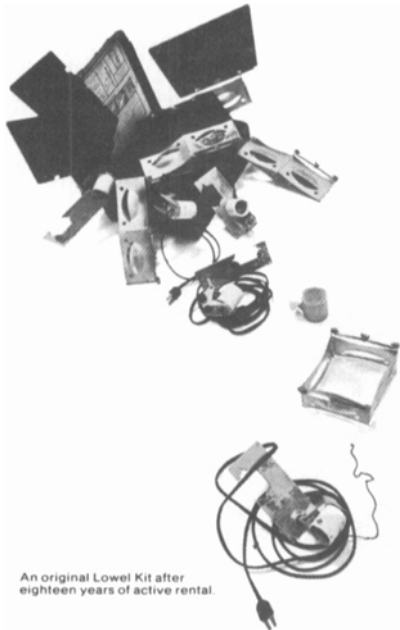


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Industry News & Educational Activities

The Aeroballistic Range Association

The Aeroballistic Range Association (ARA) is an organization comprised of representatives of government and industry who are directly involved in aeroballistic, aerophysics, impact and rocket SLED tests conducted at various ranges around the world. Its objective is to provide, at the operational level, a means of interchange of information and experience in the field of aeroballistic ranges.

The members meet annually in the fall to discuss problems and new advances. Papers are presented informally and personal contacts are made. Much of the subject matter is concerned with instrumentation techniques and their applications.

Originally the membership was mainly among establishments involved with hypervelocity experiments using light gas guns, but during the 17 years of the Association's existence, the membership requirements have broadened to include a much wider range of activities, including the high-speed track at Holloman Air Force Base. At present there are 30 member establishments representing the United States, Canada, Great Britain, France, West Germany, Sweden, Australia and Japan.

The Association was founded and held its first meeting in April 1961. The founding members were: Arnold Engineering Development Center of the United States Air Force, the Ballistic Research Laboratory of the United States Army and the Naval Ordnance Laboratory of the United States Navy.

At the second meeting the ARA became international when the Canadian Armament Research and Development Establishment, the Royal Armament Research and Development Establishment (United Kingdom), and the Institut Franco-Allemand de Recherches de St. Louis (France and West Germany) were elected to membership. The fourth meeting, the first to be held outside of the United States, was held in St. Louis, France.

Membership continued to grow to a peak of 32 until 1976 and then dropped slightly to the present level of 30. Some members left because they are no longer testing in aeroballistic ranges, but other members have joined, including certain universities carrying out research into equations of the state of solid materials at the very high pressures and temperatures caused by hypervelocity impact.

The meetings and the papers presented are at an unclassified level to avoid clearance problems but the papers, due to their up-to-date and informal nature, may be presented only before members unless permission is given individually for wider publication. This restriction encourages members to speak more frankly of new successes (and failures) and allows early knowledge of developments.

There are no membership fees and the only expenses are those incurred by attendance at meetings or incidental extra expense when an establishment acts as host for a meeting. There is a requirement that members participate in meetings, i.e., attend and give papers. Where

foreign travel is concerned, sending a paper without attendance is considered participation. Membership is by establishment or facility and not by individuals. A company that has any aeroballistic ranges or moving model test facilities is eligible and may apply for membership by letter from a responsible official to Chairman John Cable, VKF/AB ARO, Inc., AEDC Division, Arnold Air Force Station, TN 37389. — *Lincoln L. Endelman*

A method of preserving the color of old motion pictures through the use of a laser technique has been developed by Charles S. Ih, a physicist at the University of Delaware. The dyes used in color films are unstable, sometimes fading and changing color in a comparatively short period of time; however, using Dr. Ih's process, laser images of color motion pictures can be made that preserve permanently exact hues and tints. The laser technique developed by Dr. Ih has some resemblance to that used in making three-dimensional holograms. Lasers scan the three primary colors, recording exact tints in terms of a black-and-white interference pattern on holographic film. Since the color is recorded in terms of patterns that cannot change with time it can be reconstructed exactly as it was in the original print. The Library of Congress and other motion-picture archives are seeking new funds to further Dr. Ih's research.

DeLuxe Laboratories patented ion exchange technique for removing impurities from photographic washwaters will be marketed to laboratories throughout the world, according to a recent announcement. (The process was described in a paper by David J. Degenkolb and Fred J. Scobey entitled "The Reuse of Film-Process Washwater" which was presented at the SMPTE 119th Conference in Los Angeles.) Patents for the process have been licensed to Pace International Corp., P.O. Box 1668, Hollywood, CA 90028. The ion exchange process, developed by the research group at DeLuxe, removes ferricyanide, silver and hypo from photographic washwaters.

Sony Corp. of America's Video Utilization Department scheduled ten Video Production Workshops for 1978. The first workshop was held 20 February and the last one will be held 25 September. The 19 June workshop will be held at Videomed, 7738 Clairmont Mesa Blvd., San Diego, CA 92111. The 21 August workshop will be held at Alco Paramount, 79 South Third St., San Jose, CA 95113. The 25 September workshop will be held at Central School Supply, 217 West Capitol St., Jackson, MS 39205. The workshops are designed for video users in industry, education, government and medicine who want to learn basic techniques and editing and how to approach instructional/training programs. Further information on the workshops and plans for future ones is available from Jeff Glasser, Manager Video Utilization Services, Sony Corp. of America, 700 West Artesia Blvd., Compton, CA 90220.

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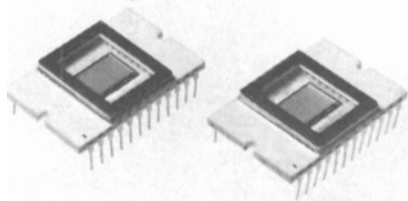
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A small size prototype color video camera utilizing ultra-large scale charge-coupled technology and a fourth generation semiconductor has been developed by Sony at its research center in Tokyo. The charge-coupled device (shown above) contains about 110,000 elements on a single chip and serves as the image sensor for the camera in place of the traditional pickup tube. The camera size and weight has been reduced to that of an 8mm camera with no impairment in picture quality. The new CCD chip measures 10.3 mm X 9.1 mm with each element 36 μ m X 13 μ m arranged in a matrix of 226 horizontal elements by 492 vertical elements for a total of 111,192 picture elements. The CCD camera will contain three chips and, by utilizing Sony's proprietary spatial offsetting technique which allows a doubling of horizontal resolution, will provide greatly increased picture resolution. By developing such structural facets as interline transfer organization, buried channels and SN02 transparent electrodes, improvements in picture quality, resolution, sensitivity and signal-to-noise ratio were made possible. Even with a $\frac{2}{3}$ -in optical system extremely high standards, such as greater than 280 line horizontal resolution and 700 lumens minimum scene illumination (at $f/2$), are said to have been achieved.

The U.S. Postal Service will begin machining small film cases at the nation's 21 bulk mail centers which handle all parcels sent through the mail according to terms of an agreement with the National Audio-Visual Association, it was recently announced. Previously, because all film cases were considered non-machineable, they were held out of the mail stream at the centers and were processed by hand. This made delivery times unpredictable and often slower. To make this "better way" workable, customers should be sure to lock their plastic cases before putting them in the mail. Ways should be found to improve straps and buckles on fiber cases and distributors should affix a permanent label under the movable label on all cases.

The University of California conducted an 8-week intensive course, beginning 15 March, devoted entirely to the work of the National Film Board of Canada. Film courses dealing with the films of one country or one filmmaker are not unusual; however, a course centered on one particular production organization appears to be unprecedented. The course, entitled "Behind the Screens of the National Film Board of Canada," familiarized the students with the history, technology and operation of the NFB and, particularly, with its animation and documentary techniques. The course was sponsored by the USC College of Continuing Education but it is expected that the Cinema Department of USC will integrate the program as one of its credit courses in the coming year.

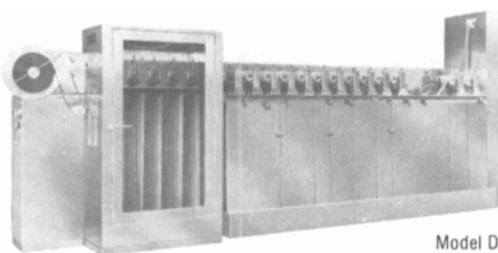
Arriflex Company of America has been acquired by Arriflex Corporation, a wholly owned U.S.

subsidiary of Arnold & Richter, Munich, West Germany, it was announced jointly by Henry Froehlich, President of Berkey Marketing Companies and Volker Bahnemann, former President of Arriflex Company of America, who is now President of the new Arriflex Corporation. Arriflex Corporation's new executive offices and service facilities are located at One Westchester Plaza, Elmsford, NY 10523. In California, the Arriflex Corporation facility will, for the present, remain in the same location. Arriflex Company of America had been associated with Berkey Marketing Companies, a division of Berkey Photo, Inc., for 25 years as the importing, marketing and service organization for Arri 16mm and 35mm professional motion-picture cameras and accessories. Changing market conditions and the growing potential for establishing an Arri manufacturing base in the United States were given as the reasons for the ownership change.

Oscar's First Fifty Years, a 22-min motion picture covering the history, objectives and activities of the Academy of Motion Picture Arts and Sciences, has been produced as a major activity of the organization's 50th anniversary celebration. The film, narrated by actor Jack Lemmon, shows the Academy's new Beverly Hills headquarters, and shows the Margaret Herrick Library and its extensive collection as well as some of the exhibits on display in the lobby of the Samuel Goldwyn Theater. The picture also contains highlights from various Awards Presentations as well as brief clips from 14 Oscar-winning films. Other special footage includes scenes for Auguste Lumiere's 1895 film made in Paris. The film was produced and directed for the Academy by Charles Braverman. It was written by Martin M. Cooper.

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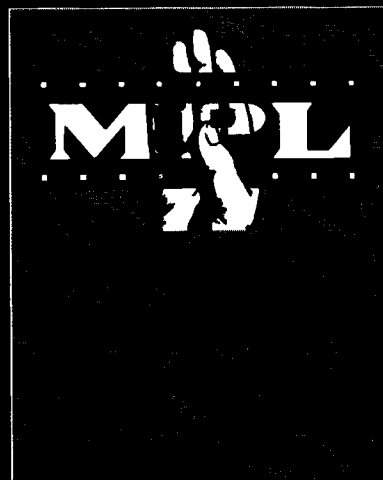
Aston Electronic Developments Ltd. of Camberley, England, and Unitel of Gentilly, France, have announced an agreement which will result in the joint development of a new range of dual-standard Teletext originating and decoding equipments capable of handling both the French Antiope/Titan and the British Ceefax/Oracle/Viewdata Teletext standards. The two companies are of similar size and it is expected that the pooling of their technical knowledge and Teletext expertise will result in an extended range of microprocessor-based Teletext products.

Ampex Corp. and N.V. Philips of Holland have announced cooperation in the field of 1-in helical broadcast recorders and ENG/EFP cameras. Philips will market on a non-exclusive worldwide basis the Ampex VPR-2 and VPR-20 videotape recorders and the TBC-2 digital time base corrector. Ampex will adopt the Philips ENG/EFP camera as part of its range of broadcast cameras.

Dytek Industries Inc., 2475 West Second Ave., Suite 4, Denver, CO 80223, has announced the acquisition of Vamco Engineering of Tulsa, Okla. Vamco designs and manufactures digital videotape timers, digital clocks and routing switchers for the broadcast industry. The firm has also developed products in the fields of solar instrumentation, transportation, communications and electronic alarm systems.

Auscom Associates is a new audio-video systems engineering firm formed by Richard H. Wood, formerly of Philips Broadcast Equipment Corp. Headquarters of the new firm are at 306 High-

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wood Ave., Glen Rock, NJ 07452. The firm specializes in audio-video systems engineering, design and consulting work in broadcast, industrial and educational television areas.

Innovative Television Equipment, manufacturer and distributor of television camera pedestals, dollies, tripods and heads, has relocated to larger facilities at 6445 De Soto Blvd., Woodland Hills, Calif., according to a recent announcement. The new facility covers more than 10,000 ft². The added space will be used to assemble all of the company's products currently being manufactured in a plant in Australia.

Fred Scobey has been named president of DeLuxe Laboratories. In his new post he will be in charge of all motion-picture film processing operations for DeLuxe Laboratories, a division of DeLuxe General, Inc. He will report to Burton Stone, the new president of DeLuxe General. A veteran of more than 25 years with DeLuxe, Scobey joined the company in 1953 on the engineering staff and in 1957 was promoted to technical director. In 1967 he was named Vice-President, Engineering. He has spearheaded a number of new industry systems and has been the recipient of several major industry awards. In 1976 he received the Dennis Wratten Award presented by the British Kinematograph, Sound and Television Society for his paper on "Computerized Processing and Printer Control Techniques." In 1973 and again in 1975 he received a citation from the Academy of Motion Picture Arts and Sciences, the first for development of a silver recovery system and the second for a computer-operated densitometry system for quality control.

Scobey became a Fellow of the SMPTE in 1960 and is currently serving as Vice-President

of Motion Picture Affairs. He has also served as a governor of the SMPTE and has been a member of the Laboratory Practices Engineering, Color Engineering and other SMPTE committees. He is a U.S. delegate to the International Standards Organization, a member of the Academy of Motion Picture Arts and Sciences, the American Society of Cinematographers and the British Kinematograph, Sound and Television Society.

DeLuxe General is a wholly owned subsidiary of Twentieth Century-Fox Film Corporation.

Burton Stone is the new president of DeLuxe General, Inc., succeeding Robert Kreiman who resigned to devote full time to his own company, Pace International. Among other activities, Pace will be granted the license to represent certain proprietary products controlled and patented by DeLuxe General, including a silver recovery and water purification system. Kreiman will also be a consultant to DeLuxe for two years.

Stone was formerly president of Precision Film Laboratories, New York, an affiliate of DeLuxe General. In his new post his headquarters will be at DeLuxe's home offices in Hollywood (1546 North Argyle Ave.). Stone has been president of Precision for the last eight years. Previously he was with Technicolor Inc. as a vice-president.

Barrett E. Guisinger has been appointed Director of Technology at the Sony Technology Center in Palo Alto, Calif. The announcement was made by Sony Corp. of America, 9 W. 57 St., New York, NY 10019. Before joining Sony, Guisinger had been with International Video Corp. and earlier, had been with Ampex. He holds 12 patents in the magnetic recording field.

Jack Calaway has been elected Vice-President, Research and Development, for Vidtronics Co., 855 N. Cahuenga Blvd., Hollywood, CA 90038, a videotape production and post-production facility. He has been with Vidtronics for five years as Director of Engineering. In his new post he will supervise design, engineering and quality control.

John Dale, General Manager of the Magnetic Tape Division, Fuji Photo Film U.S.A., has been elected to the Board of Directors of the International Tape Association, a leading industry group composed of both manufacturers and professional users of magnetic tape and recording equipment. At Fuji, Dale is responsible for the marketing of Fuji audio and video tapes. Recently he supervised the introduction of Beridox Videotape to the broadcast market.

Sterling E. Davis has been appointed to the newly created position of President, Facility Operations for Vidtronics, a Hollywood-based videotape production and post-production facility. Davis was formerly Chief Engineer for Metrotape West in Los Angeles.

Edward B. Maguire, former President of Calvin Cinequip Inc., has joined the staff of Oscar H. Hirt, Inc., 41 N. 11 St., Philadelphia, PA 19107. In his new post he will be responsible for sales, marketing, promotion and advertising. The O.H. Hirt Co. specializes in the sale or rental of professional motion-picture equipment and supplies, audiovisual equipment and supplies and industrial graphic art materials.

Books, Booklets, Brochures

Hope Reports Perspective, a study available from Hope Reports, Inc., 919 South Winton Rd., Rochester, NY 14618, at a price of \$7.50, reveals that nearly half of all motion pictures made around the world in the last 52 years have come from the United States. The total of 662,000 titles does not include another estimated 740,000 television commercials made in the United States. Between 1915 and 1977 a total of about 1.4 million motion pictures were produced around the world plus another 823,000 television commercials, according to *Hope Reports Perspective*. A little more than half a million pictures, or 36%, were nontheatrical subjects with 32% classified as theatrical and 31% as television programs and documentaries. Most of the 8-page study is devoted to 16mm nontheatrical film. It analyzes films in three major groups — sponsored/contract pictures, in-plant films and proprietary productions (those using the capital of the producer to make the film and then relying upon sales of prints or sale of the film itself to a distributor). More than 3600 educational titles are analyzed as to subject — a continuing service by Hope Reports now encompassing nine years' output. The report points out that the strongest growth area of the nontheatrical film industry has been in the field of training. This study (available separately) is an issue of the bimonthly publication by Hope Reports.

The new edition of the **American Film Institute Guide to College Courses in Film and Television** is available from AFI Guide, National Education Services, The American Film Institute, JFK

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