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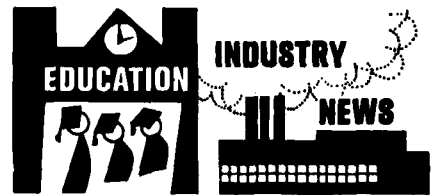


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Film 75, to be held in London's Royal Lancaster Hotel June 23-27, will feature a program of 50 papers presented by representatives from more than a dozen countries, according to an announcement by the British Kinematograph, Sound and Television Society, sponsors of the event.

The equipment exhibition, which has been expanded to cover two floors at the Royal Lancaster, has been sold out. Approximately 64 companies will participate.

In addition to the papers presented at Film 75, there will also be an "Outside Visit Program" which the BKSTS is scheduling to dovetail with the papers program. It will include visits to studios, laboratories, equipment manufacturers, and other places of interest to delegates.

Social events include an extensive program for spouses accompanying delegates to Film 75, and a concluding banquet with entertainment.

The subject areas in which the papers will be presented and the days of presentation are: Sound Recording and Reproduction (Monday, June 23); Production Techniques—Television (Tuesday, June 24); Production Techniques—Non-Television (Tuesday, June 24); Videotape in Broadcast Television (Wednesday, June 25); Electronic Reproduction of Film (Wednesday, June 25); Laboratory Techniques (Thursday, June 26); Audio-Visual Communication by Disc and Tape (Thursday, June 26); and Audio-Visual Presentation (Friday, June 27).

Registration forms may be obtained from SMPTE Headquarters, or from BKSTS, 110-112 Victoria House, Vernon Pl., London, WC1B 4DJ, England. A group flight from the United States to Film 75 is now being planned. Details will be published as soon as they become available.

The American Society of Cinematographers Best Photographed College Film Awards of 1974 will be held on May 19 at ASC's headquarters building in Hollywood. This is the first of what is expected to be an annual event. Stanley Cortez, ACS awards committee chairman, named cinematographers Lee Garmes and Winton C. Hoch as co-chairmen of the awards dinner.

An awards committee of 24 had been selected to judge the entries from more than 100 colleges and universities across the U.S. The committee includes Ernest Laszlo, Linwood Dunn, Charles Clarke, Sol Halprin, George Folsey, Joseph Biroc, Milton Krasner, Ray Rennahan, Harry L. Wolf, L. B. Abbott, Philip Lathrop, Sam Leavitt, Ralph Woolsey, Howard Anderson, Leonard South, Herb Lightman, John Ormand, Blaine Nicholson, Sidney Solow, Wilton Holm, David Fleming and Howard Schwartz.

Electro-Optics '75 and the concurrent International Laser Exposition have been rescheduled to November 11, 12, 13 at the Anaheim Convention Center, Anaheim, CA, it was announced by Industrial and Scientific Conference Management, Inc., 222 W. Adams St.,

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Chicago, IL 60606. The meeting, which includes an expanded technical program, and equipment show, and an industrial and commercial laser applications symposium, is sponsored by *Electro-Optical Systems Design* magazine, the Laser Institute of America, the SPSE and the SPIE.

The Society of Photo-optical Instrumentation Engineers (SPIE) announced three seminars for 1975. The first, on Effective Utilization and Application of Small-Format Camera Systems and Simulators and Simulation, Design and Techniques, was held March 17-18 at the Disneyland Hotel in Anaheim, CA. The second seminar, on Solving Quality Control and Reliability Problems With Optics, is set for May 15-16 at the Town and Country Hotel in San Diego. The third seminar, on Application of Optical Instrumentation in Medicine, IV, is scheduled September 25-27 at the Marriott Hotel, Atlanta. This seminar is jointly sponsored with the Society of Photographic Scientists and Engineers (SPSE). For information on all three seminars, write to SPIE, P.O. Box 1146, Palos Verdes Estates, CA 90274.

Vidsec 75 (Video Systems Exposition and Conference), to be held in Chicago's McCormick Place June 1-3, will feature the second annual Video Library. The Library will be open to all attending the concurrent Vidsec and the Summer Consumer Electronics Show. Distributors of commercially available programs in video cassette/cartridge formats, particularly those offered for rent, lease or purchase for use in such areas as business and industry, and programs of general consumer interest will be represented. The three-day Vidsec program will include a hardware and software exposition, conferences, and working "video lab" exhibits. Information may be obtained from Vidsec 75, 331 Madison Ave., New York, NY 10017. Vidsec is sponsored by Electronic Industries Assn., Video Systems Subdivision.

AMTEC '75, the fifth Canadian Educational Communications Conference of the Association for Media and Technology in Education, will take place June 15-18 at the newly-opened Convention Center in Calgary, Alta. Theme of the Conference is "Partnerships in Learning," with emphasis on the interactions among instructional media personnel, including technology and people, instructional planners and producers, teachers and learners. Mini-themes for the three main conference days of June 16, 17 and 18, are "Man and Methods," "Man and Machines" and "People and Perspectives." General and special interest sessions, "hands-on" workshops, extensive exhibits, a participatory multi-media "experience," group discussions and seminars, will make up the daily programs. Registration information may be obtained from Garry Smith, ACCESS Television S., Calgary Health Sciences Center, 1611 29th St., N.W., Calgary, Alta T2N 4J8.

The Inter-Society Color Council will hold its 44th Annual Meeting at New York's Statler Hilton Hotel, April 14-15. In both morning and afternoon sessions on Monday, April 14, open meetings of the ISCC Problems Subcommittee will be held. The annual business meeting will take place Tuesday morning, April 15, and will include the presentation of

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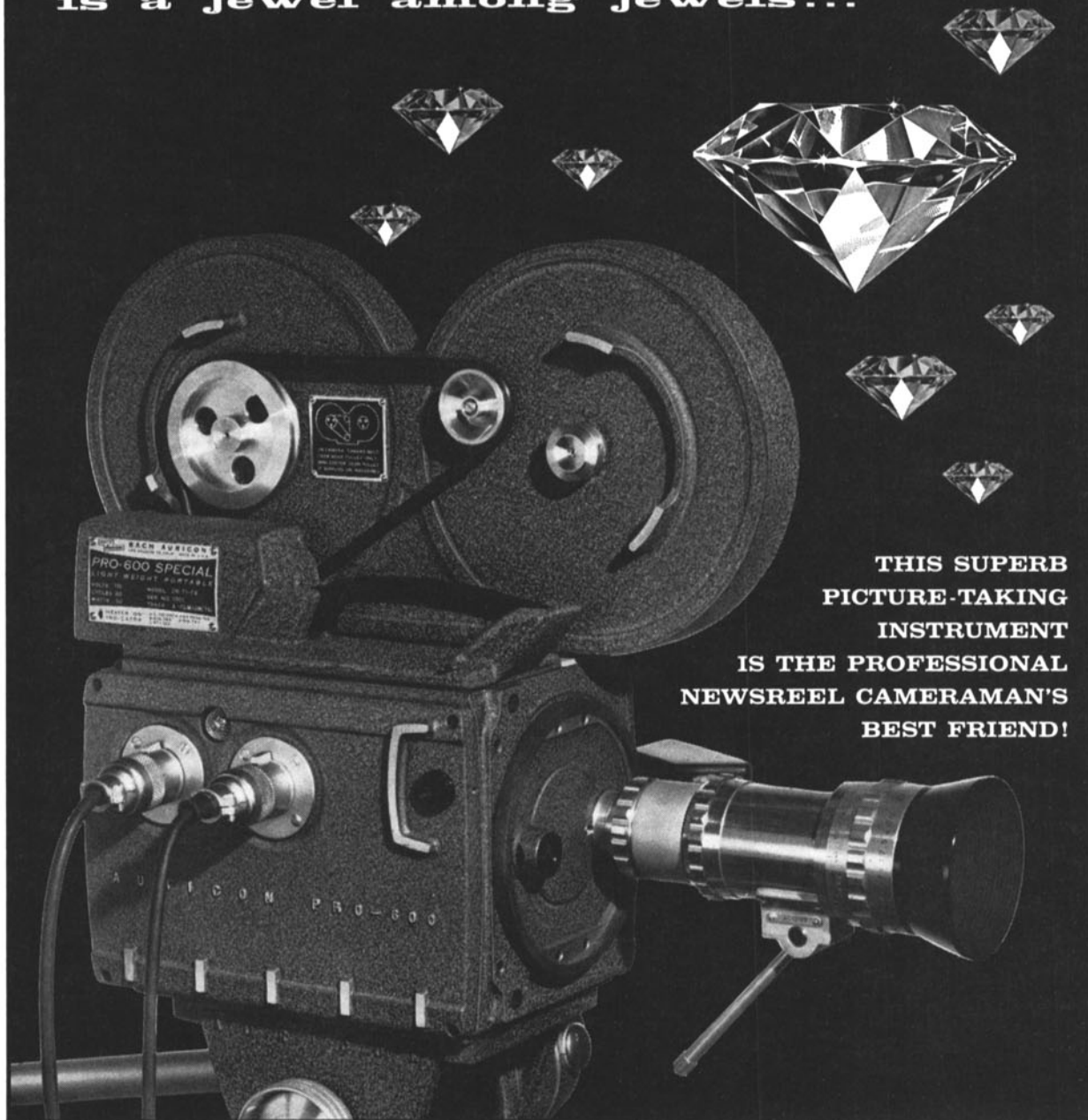
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reports by chairmen of the member-body delegations and by officers and standing committee chairmen. Tuesday afternoon will feature a symposium dealing with recent activities of the Problems Committee. A reception and banquet will be held Tuesday evening when the Godlove Award will be presented to Dr. Vincent C. Vesce, Allied Chemical Corp. (retired). The banquet speaker will be Dr. David L. MacAdam, Eastman Kodak Co., who will present his Optical Society of America Ives Medal Address "Color Essays."

Portrait of a Railroad, a short film that has received seven national and international awards, was honored by Box Office magazine and Association-Sterling Films in ceremonies on National Film Day, Feb. 4. Francis Thomson, the film's producer, and Burlington Northern, Inc., the film's sponsor, were joint recipients of a special plaque. The film is said to be one of the most successful short subjects released to theaters in 1974, having played with more major box office attractions than any other short subject. According to Association-Sterling Films, the short has been seen by more than 5½ million persons. *Portrait* was directed and written by Harvey Lloyd. It was photographed by Don Guy and narrated by Jack Naughton.

Two all-solid-state, tubeless, black-and-white TV cameras were recently shown by RCA Corp., at their corporate headquarters in 30 Rockefeller Plaza, New York, NY 10020. According to an RCA announcement, the company plans to make developmental samples available to the industry beginning in the second quarter of 1975.

The cameras employ an advanced type of image sensor called a charge-coupled device (CCD) that performs the functions of vidicon tubes in TV cameras. The new camera eye is said to be the first solid-state image sensor to be fully compatible with present TV monitors and accessories, eliminating the need for equipment modification. The primary advantages of CCD cameras, according to RCA, are their high reliability due to 100 per cent solid-state circuitry; small size and light weight for portability; rugged construction; low power consumption; and low-cost potential. The CCD image sensor produces standard television pictures with a resolution comparable to images made from a 2/3-in silicon vidicon tube now used for many TV applications. In addition, CCD technology will have important impact on other areas of electronics such as digital memories and analog signal memories.

The first CCD product to be introduced by RCA is the world's largest and highest resolution CCD television image sensor announced to date, a 512 X 320 element device capable of producing fully standard 525-line compatible video for use in either color or black-and-white TV cameras. RCA calls this sensor a "Silicon Imaging Device" which has been dubbed "SID". Two versions of a completely "tubeless" black-and-white TV camera designed around the SID were also introduced.

The charge coupling technology is based upon work done by the Bell Telephone Laboratories in 1970 and has progressed rapidly in the past four years. The SID sensor is the result of extensive research and development work at RCA Laboratories, Princeton, N.J., and more recently, at the Lancaster, Pa., plant of RCA Electronic Components which will be the CCD manufacturing center.

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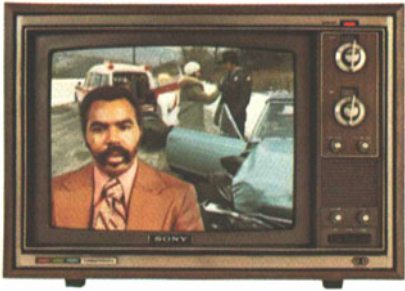
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The first public demonstration of General Electric's ultra-wide screen television projection system was held during an exhibit on "The Future of Television in the Performing Arts" at the New York Public Library at Lincoln Center in New York City in late January. The system is capable of projecting bright, clear, CinemaScope-sized TV images, according to a GE announcement. The equipment is manufactured by GE's Video Display Equipment Operation, Electronics Park, Syracuse, NY 13201. Basic wide-screen color projection uses a standard CinemaScope-type movie adaptor lens fitted on the unique GE PJ 5000 single-lens color TV projector. This lens widens the picture by a factor of two, leaving the vertical height unchanged. The aspect ratio changes from 3:4 to 8:3.

The picture signal input comes from using a standard TV film chain. The picture signal may also be obtained from videotape which has been recorded in the "squeezed" mode or from a live color camera fitted with an anamorphic lens.

Wesleyan University, Middletown, CT, has received as a gift the archives of Robert Saudek Associates, Inc., the producers of the 1950s "Omnibus" television program, including a number of significant special TV broadcasts by Leonard Bernstein. The archives, to be known as the "Saudek-Omnibus Collection," will be housed in Wesleyan's new Center for the Arts. The collection includes more than 200 files of broadcast manuscripts and production records, as well as negatives, films, tapes and kinescopes, of the 166 programs which represent 231 hours of programming and which comprise the eight seasons of Omnibus broadcasts. Initiated in 1952 and continuing on the air until 1960, Omnibus brought to the home screen significant classical and contemporary drama, short film subjects, ballet, opera, music and musical comedy, and historical perspectives on American political institutions. As a record of the performing arts in America, it preserves the work of a wide range of performers, writers and musicians. Among the highlights of the collection are the series of Lincoln Broadcasts written by James Agee, and Joseph Welch's discussions of the Constitution. The series introduced American viewers to Alistair Cooke who provided the commentary during the eight years of the Omnibus shows. Conditions of the gift allow broadcast films and tapes to be shown on the University campus for non-commercial purposes without admission charge to Wesleyan students and groups drawn from schools and the community at large.

On What Makes A Director, an address delivered by film director Elia Kazan to students of Wesleyan University in the fall of 1973, has been reprinted for distribution to young people who undertake the study of film and television and who have a career interest in directing. The address was first printed in the magazine *Action*, the publication of the Directors Guild of America. Because Kazan's statement aroused so much interest, the Guild reprinted it in a more permanent form. The reprint is available from the Directors Guild who will send, without charge, a single copy (no group requests) to any individual who will mail in a postcard or letter giving name, address, and zip code to Publications, Directors Guild of America, Inc., 110 W. 57th St., New York, NY 10019.

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DICE, the Digital Intercontinental Conversion Equipment designed by engineers of the Independent Broadcasting Authority will be exclusively manufactured and marketed by Marconi Communication Systems Ltd., a GEC Marconi Electronics Company, Marconi House, Chelmsford, Essex, England. DICE, described in a Marconi announcement, converts 525-line NTSC color pictures into the 625-line PAL or SECAM pictures and vice versa. The conversion is necessary not only for "live" relays via satellite but also when program material or videotapes are exchanged between countries working to different picture standards. Though other standard converters have been developed before, the IBA engineers were the first to develop a unit based on digital techniques to eliminate the need for careful alignment and adjustment and to provide conversion without perceptible picture impairment, the announcement said.

National Film Day was observed Feb. 4. The event was established to celebrate the importance of the motion picture in America and give support to the American Film Institute. Theater operators, circuits and independents, and the film distribution companies donated a portion of the day's gross receipts to the American Film Institute. The Institute, a non-profit organization, was established in June 1967 by the National Endowment for the Arts, a federal agency. Its activities include preserving films, cataloging films, conducting an advanced conservatory for filmmakers, assisting new American filmmakers, and operating a national film repertory in the John

F. Kennedy Center for the Performing Arts in Washington, D.C. National Film Day Chairman was Roy B. White, Board Chairman of the National Association of Theatre Owners. National Film Day had been proclaimed in principal cities as well as in smaller communities coast-to-coast by government officials on all levels.


The audiovisual communication industry finished 1974 with service and sales spending up an estimated 14%, the best in the industry's history, according to Hope Reports, 919 S. Winton Rd., Rochester, NY 14618. Two volumes of Hope reports have just been released, an annual and a quarterly, and both bear out the optimistic figure. The annual volume, *Hope Reports AV-USA 1973-1974*, showed that hardware product sales in 1973 were 13% better than the previous year. Software sales picked up 8% and the overall product gain was 11%. Motion pictures led all media with almost a billion dollars. Video was second at about \$333 million, followed by filmstrips at \$161 million and slides at \$58 million.

A new standard, RS-420, "Electrical Performance Standards for Monochrome Closed Circuit Television 525/60 Random Interlace" has been announced by the Electronic Industries Association, 2001 Eye St., N.W., Washington, DC 20006. The standard is a result of six years of committee work by the EIA Engineering Department's TR-17 Working Group on Closed Circuit Television under the chairmanship of Carlos Kennedy, Ampex Corp.

The Ford Foundation, which has contributed \$273 million to the development and growth of the noncommercial broadcasting industry since 1951, was the recipient of the 1974 Distinguished Service Award from the National Association of Educational Broadcasters (NAEB). McGeorge Bundy, President of the Ford Foundation, accepted the award on 18 November, the opening day of NAEB's 50th annual convention which was held in Las Vegas.

Video Utilization Services, a new department established by Sony Corp., 700 West Artesia Blvd., Compton, CA 90220, was set up to provide a national program of seminars, workshops and customized training packages, according to a recent announcement. The program will include seminars and workshops that will be offered in various cities throughout the country and customized training programs for specific organizations may be provided. Head of the new department is Jeff Glasser.

Techniques in High-Speed Photography and Videography, a special summer program, will be held 7-11 July in the Stroboscopic Light Laboratory of the Massachusetts Institute of Technology. It is an intensive program intended for scientists, engineers and photographers who must use photoinstrumentation. The theory, operation and applications of fixed and moving film systems will be discussed and the new field of high-speed videography will be covered. Invited specialists in high-speed




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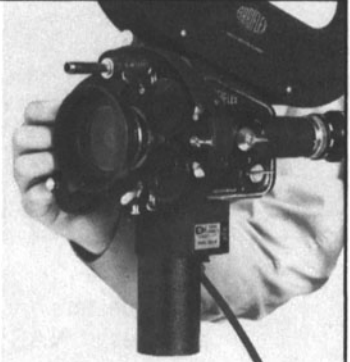
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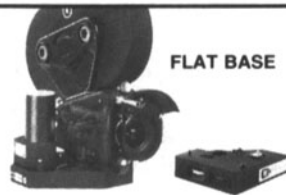
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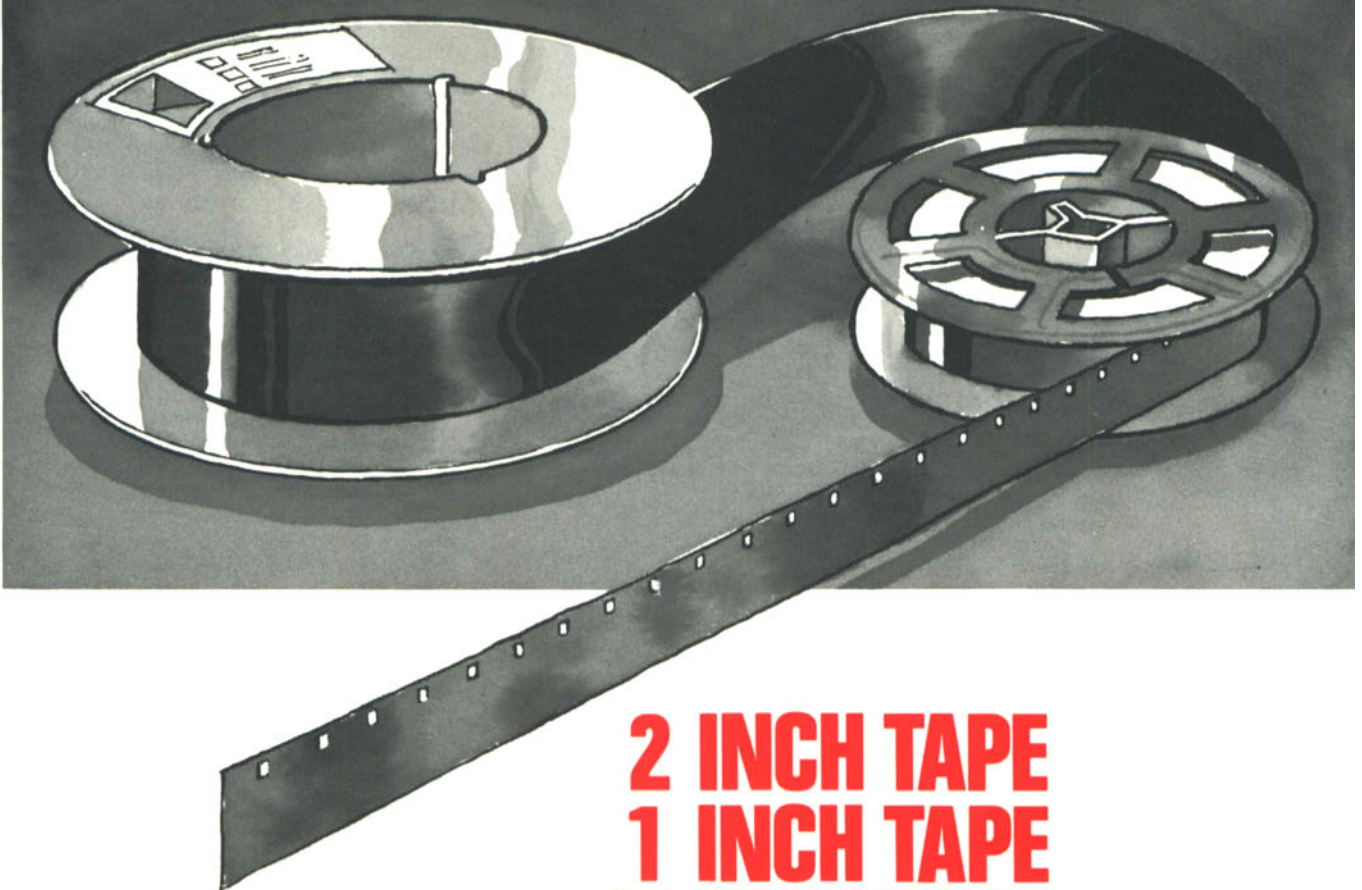
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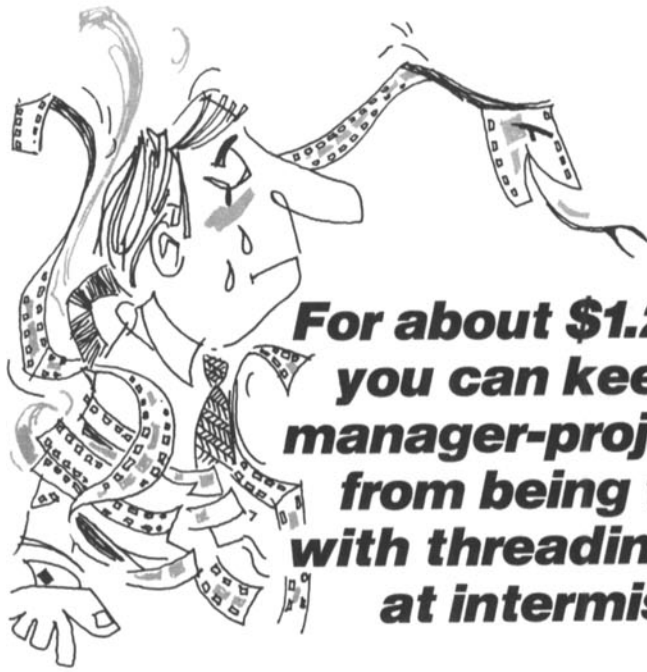


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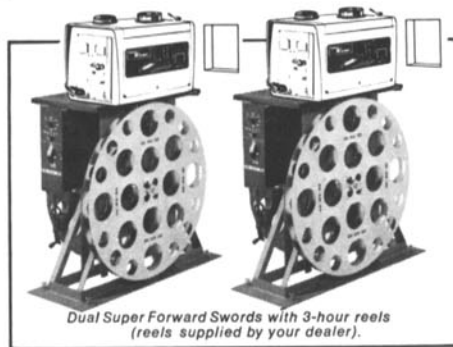
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photography will discuss their particular areas and there will be practical demonstrations of many types of equipment and techniques. Participants will be fully involved in a comprehensive series of "hands-on experiences" with the most modern equipment available. Further information is available from M.I.T., Office of the Summer Session, Room E19-356, Cambridge, MA 02139.

National Camera, 2000 West Union Ave., Englewood, CO 80110, has announced three Technical Training Seminars to be held during 1975 — 14-25 July; 11-22 August; and 8-19 September. The first week of each seminar is given over to technical updating, lectures and demonstrations; during the second week the students engage in actual benchwork with practice equipment provided by the school.

The University of Southern California is the recipient of the late comic actor Billy De Wolfe's personal collection of stage, screen and television memorabilia presented by his sister, Mrs. Robert G. Jones of Worcester, Mass. The collection includes scrapbooks of clippings dating back to 1925, stills and candid photographs, costume props, scripts, musical arrangements, posters and awards. The Billy De Wolfe collection will be housed in USC's Special Collections Department in Doheny Library.

EXPRMNTL 5 (Fifth International Experimental Film Competition) has awarded 12 prizes to producers of films submitted in competition: (1) the Agfa-Gevaert prize to Dore O for her film *Kaskara* (Germany); (2) Baron Lambert prize to Tsuneo Nakai for *Alchemy* (Japan); (3) Centre Belge du Nouveau Cinéma Prize to Michio Okaba for *Shonen Shiko* (Japan); (4) BRT/RTB prize to Anna Ambrose for *Noodle Spinner* (Great Britain); (5) Jean Marie JOSI prize to Anthony McCall for *Line Describing a Cone* (Great Britain-USA); (6) Albert Frere prize to Colen Fitzgibbon for *FM/TRCS* (USA); (7) Centre Expérimental du Cinéma Prize to Thierry Zeno for *Vase de Noces* (Belgium); (8) Centre Expérimental du Cinéma prize to Mike Dunford for *Still Life With a Pear* (Great Britain); (9) Centre Expérimental du Cinéma prize to J. J. Murphy for *Print Generation* (USA); (10) Centre Expérimental du Cinéma prize to Richard Woolley for *Kniephofstrasse* (Germany); (11) the prize of the Association Belge des Auteurs de Films to Jean Van Helden for *Assis sur une Barriere*; and (12) the prize of the Selection Jury to Claudine Eizykman for *VW (Vitesse-Women)*.

The University of Michigan, College of Engineering, Chrysler Center North Campus, Ann Arbor, MI 48105, has announced a seminar on Coherent Optics to be held 4-8 August. The Chairman will be Emmett N. Leith. The seminar will present physical optics from the Fourier viewpoint. Applications such as spatial filtering, interferometric metrology and holography will be covered. Practical experience will be offered through laboratory sessions where the participants will perform experiments.

Gulliver, an opera produced by Opera Today, Inc., in conjunction with the Minnesota Opera Company, had its premiere 22 February in

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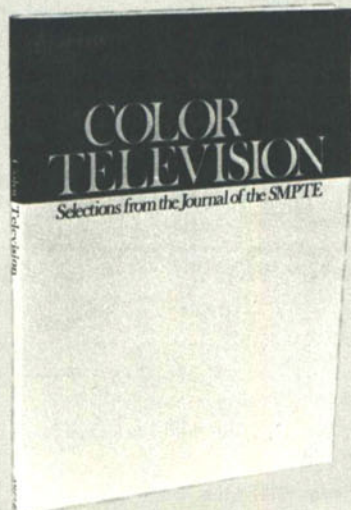
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Minneapolis. The opera contains music by three composers — Easley Blackwood, Elliott Kaplan and Frank Lewin. Of special interest are the segments by Frank Lewin which employ four-channel recorded music closely synchronized with films from three projectors interacting with live singers and instrumentalists. The recorded music, originally on 8-track tape, was edited on 35mm magnetic 4-channel tracks and mixed into a surround score which exploits various aspects of quad sound. Mr. Lewin, a composer of film, television, theater and concert music, is at present on the faculty of the Yale School of Music where he teaches dramatic music and composition for films.

The American National Metric Council's first annual report, *Report to the Nation on the Management of Metric Implementation*, a 32-page publication, is available from ANMC, 1625 Massachusetts Ave., Washington, DC 20036, at a price of \$2.00 for a single copy (discounts for quantity orders of 10 or more). The report reviews the status of metric legislation, educational activities, metric influence on engineering standards, foreign trade implications, metric practice, antitrust measures and the experiences of countries now converting to the metric system. The bulk of the report describes the current metric planning and implementation in five major industrial sectors of the United States — engineering industries, building and construction, materials, consumer products, and education and industrial training.

Table Talk No. 7 containing Part 2 of "What

Happens to Your Film at the Lab" is available from Motion Picture Laboratories, Inc., Box 1758 Memphis, TN 38101. A 10-page illustrated booklet, *Table Talk No. 7* gives a detailed discussion of timing and timers and color analyzers. The booklet is one of a series dealing with various aspects of laboratory operations.

Field of Honor, a 15-min film made by University of Southern California students won four prizes at the 36th Scottish International Amateur Festival held recently in Glasgow. The film, written and directed by Robert Zemeckis, won the Victor Saville Trophy as the outstanding film of the festival; the Hitchcock Award for the best fiction film; the Stewart MacAllister Award for the best soundtrack; and the Cosmo Award for the best acting performance. Made in 1973, the film has received a number of other prizes at other international festivals. The film, described as "black comedy" is a satire about the adventures of a young man reluctantly released from a mental institution.

RCA scientists have demonstrated the feasibility of using tiny, low-power semiconductor lasers to replace bulkier, less efficient gas lasers as the light source in an optical scanner. A document reader was constructed employing a newly developed semiconductor laser to provide electronic reproductions of text, sketches and photographs suitable for long distance facsimile transmission. The work is still experimental but there are several prospective applications for scanners employing

solid-state lasers; among them automated checkout equipment for supermarkets; facsimile equipment; and for reading information from optical discs containing video or computer memory information.

The solid-state (injection) laser is a small chip of aluminum gallium arsenide specially fabricated and doped, occupying about a millionth of a cubic inch. It provides a continuous, astigmatic beam of near-infrared light about 8000 Å that is optically shaped in the document reader to a nearly round cross section. The beam is scanned over the document it is reading in both the horizontal and vertical direction by galvanometer-driven mirrors. The laser light reflected from the scanned document is detected by suitable photodetectors sensitive to the near-infrared light emitted by the injection laser. The output of the photodetectors is electronically processed and then displayed on a cathode-ray tube.

SynthaVision, a system of creating motion pictures by computer, has been developed by Computer Visuals, Inc., 3 Westchester Plaza, Elmsford, NY 10523. The process involves five basic steps. First, the scene to be pictured is described by filling out IBM punch cards and feeding them into the IBM 360/65 computer. Second, the computer is instructed by code numbers exactly how to move the objects in the scene. Third, the picture intensity, point by point, is calculated by the computer and put on magnetic tape. Many frames are calculated at one time. Fourth, the finished pictures are viewed on a TV receiver in black-and-white to check for quality and movement. Fifth, the approved final version is processed

28th Annual



Society of Photographic Scientists and Engineers

Conference

May 11—May 16, 1975



Seminar on Quality Control

Denver Hilton Hotel, Denver, Colorado

The Society of Photographic Scientists and Engineers is holding its 28th Annual Conference in Denver, Colorado. The week-long conference will be hosted by the Rocky Mountain Chapter and held at the Denver Hilton Hotel, May 11 thru May 16. Leading authorities will be presenting data on sensitization, image analysis, latent image theory and properties, novel and unconventional photographic systems, radiography, electrophotography and other important topics.

A two-day in-depth Seminar on Quality Control will be held concurrently with the Conference on May 12 and 13. Sessions will include standardizing quality control procedures, objective photo quality measurement, computer sensitometry for aerial film processing, photographic laboratory effluents, granularity effects on edge analysis and optimizing image quality in aerial cameras. The wide range of good speakers, the concentration of technical professionals in attendance and the charm of Denver and the surrounding areas should combine to make this meeting a resounding success.

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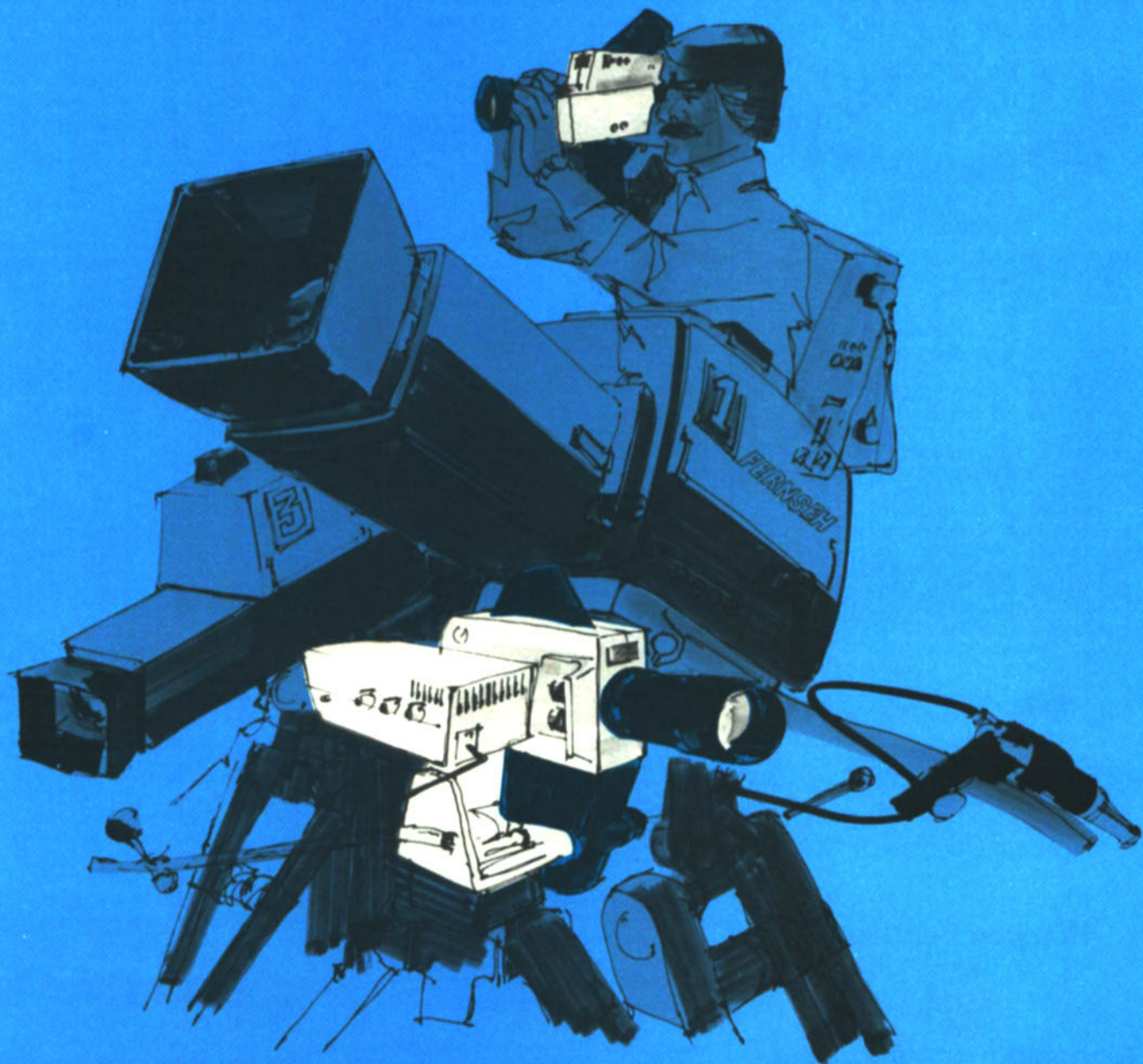
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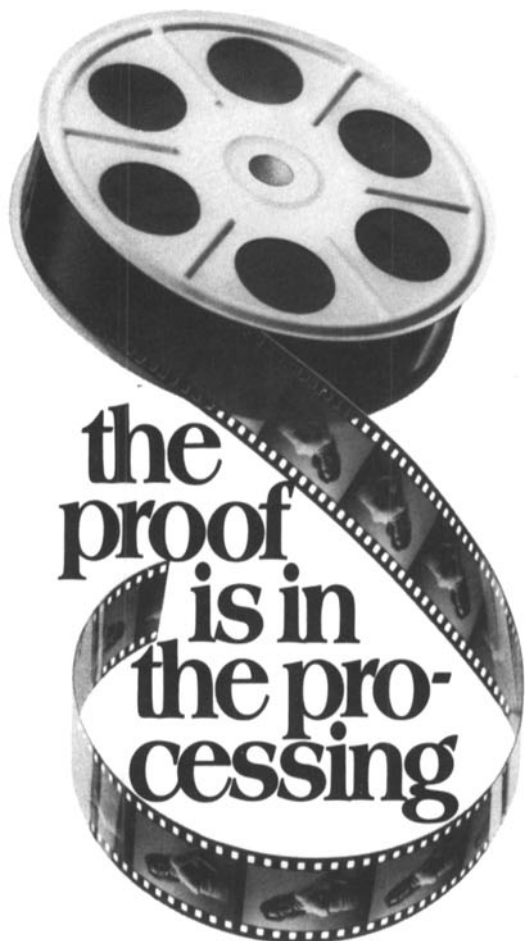
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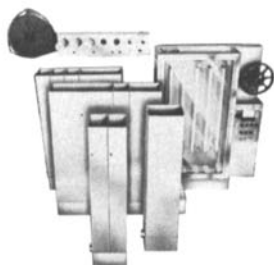
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in the SynthaVision electronic laboratory where it is photographed by a conventional camera. A color wheel revolves in front of the camera on computer command, producing color images via a three color photographic process similar to that used in printing.

For example, the SynthaVision staff may create a car by means of a mathematical description. The mathematical model is fed into the computer which then creates the first picture. An operator then instructs the computer to travel at 30 miles an hour along a road. The computer, without human guidance, creates a series of pictures showing the car moving along a road at exactly 30 miles an hour. If the operator approves the sequence after viewing it on a cathode-ray tube, the computer tape is translated into pictures which are photographed and developed by the conventional process.

The technique is based on that used earlier by physicists working on a system of calculating nuclear radiation using the method of Monte Carlo radiation transfer. Nuclear radiation was calculated by simulating targets such as tanks, cars or fallout shelters by mathematical formula and feeding the "forms" into the computer. The radiation is then followed from its source to the targets and the amounts of radiation received can then be calculated.

One of the features of the SynthaVision system is the flexibility permitted the director. Each picture is created without any original, therefore whole pieces of action can be changed, action can be speeded up or slowed down and colors can be altered at will.

Flight Research, A Geotel Company, Charles City and Lewis Rds., Richmond, VA 23201, announced the formation of a new custom film movement department. The company now offers one-of-a-kind or short run manufacturing quantities for film movement users.

Dolby Laboratories, 1133 Ave. of the Americas, New York, NY 10036 and 346 Clapham Rd., London SW9, England, has announced several organizational changes. Elmar Stetter, formerly Technical Sales Manager, takes on the new position of European Sales Manager. Ioan Allen, Marketing Manager, has assumed increased duties in the motion-picture industry. Steve Katz, Applications Engineer has transferred from New York to Hollywood to concentrate on film-industry activities. Adrian Horne, Licensing Manager since 1970, moves to become Head of Advertising and Information. Ian Hardcastle is Dolby's new Licensing Manager.

GTE Sylvania Inc. announced two new appointments. David G. Cowden was named General Manager of the CATV Equipment and Installation Operation with responsibility for all activities of the operation which manufactures wideband cable communications equipment and offers turnkey installation services to CATV systems operators. Richard M. Porter was appointed Advertising Manager for the Electronic Components Group. Porter is responsible for all advertising, trade shows, catalogs and other collateral materials for the groups product line which includes color and monochrome television picture tubes, receiving tubes, CATV equipment, circuit assemblies, and printed circuit boards.

Frank Giovannelli has joined the staff of Byron Motion Pictures, 65 K St., N.E., Washington, DC 20002 as quality control manager. Giovannelli was most recently laboratory manager for Bebell, Inc., and before that served in various production management and quality control positions with DeLuxe General, Consolidated Film Industries, Precision Laboratories and Cine Magnetics.

Nicholas Garland has just joined the staff of Century Projector Corp., 32-02 Queens Blvd., Long Island City, NY 11101. As head of the engineering department, he will be responsible for design engineering, factory engineering, and product quality assurance. Garland was for seven years employed by Altec as a service engineer before joining Century.

Gerald R. Baird has been appointed Product Sales Manager for Photographic Solution Management products for Snook Corp., 751 Loma Verde Ave., Palo Alto, CA 94303. Snook, which manufactures the Rotex Silver Recovery Systems, recently acquired the photographic solution management business from Mead Technology Laboratories, subsidiary of Mead Corp., Dayton, Ohio. Baird will be responsible for marketing this line of equipment which provides automatic process control of photographic solutions and recycles chemistries for reduced operating costs and pollution abatement.

Dr. Donald E. Marlowe has been named Executive Director of the American Society for Engineering Education, One Dupont Circle, Washington, DC 20036, effective Feb. 1. He succeeds Leslie B. Williams who died May 14, 1974. Marlowe, prior to assuming his new responsibilities, was Vice-President for Administration at the Catholic University of America. He was previously Dean of the School of Engineering and Architecture at that institution.

James M. Lang was promoted to midwestern district manager for CEI, 880 Maude Ave., Mountain View, CA 94043. Lang is responsible for marketing the company's TV cameras and accessories in Illinois, Wisconsin, Iowa, Nebraska, South Dakota and North Dakota. Lang's office is located at 1754 Fayette Walk, Suite L, Hoffman Estates, IL 60172. Lang was previously CEI's customer services manager for the midwest, southwest and southeast regions.

Sam Schwartz has joined the sales staff of Technicolor, Inc., 321 W. 44th St., New York, NY 10036. Schwartz comes to Technicolor-New York from Viacom where he was Manager of Production and Technical Services. Most recently Schwartz was at Cinema Prints, Inc., where he was Manager, Production Services in the commercial field.

Don Davis, owner-president of Synergetic Audio Concepts, P.O. Box 1134, Tustin, CA 92680, will present a mini-version of his Syn-Aud-Con sound engineering seminar at the New Com Show in Las Vegas, May 6-7. Each attendee will receive a special textbook and slide rule as part of the seminar.