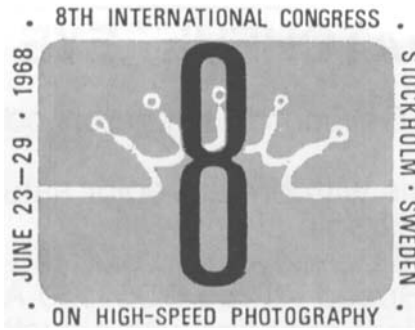


University of California Extension, P.O. Box 109, La Jolla, Calif. 92037, has announced a five-day course on Image Restoration to be held July 8-12 (8:30 A.M. to 4:30 P.M.) on the San Diego campus. Studies will include concepts, limitations and techniques of image restoration with particular emphasis on the mathematical foundation of image processing. The course is intended especially for engineers and physicists interested in photographic resolution and its utilization in computer processing of degraded photographic images. The course will include demonstrations of IBM-1800 systems. James L. Harris, Sr., Manager of Research at the Visibility Laboratory, University of California San Diego, is instructor for the course and will present the opening lecture on "Introduction to Image Restoration." Guest lecturers will include Rudolph Priesendorfer, research mathematician, Naval Electronics Laboratory Center, UCSD; Carl Helstrom, Department of Applied Electrophysics, UCSD; and Benjamin L. McGlamery, Associate Development Engineer, UCSD. The course will include fundamental descriptions of image restoration equipment, computer facilities, and emphasis on development of a



The 8th International Congress on High-Speed Photography will be held June 23-29 in Stockholm, Sweden. More than 150 papers have been submitted to the Congress from 15 countries. Eleven scientific sessions will be held. Subject areas will include electronic shutters, streak cameras, multiple-frame cameras, fiber optics, image dissection cameras, mechanical shutters,

flashlight sources, x-ray flash systems, lasers, holography, interferometric techniques, schlieren technique, micro studies, applications, photographic materials and systems for control and analysis. An exhibition of instrumentation and equipment for high-speed photography will be held in connection with the Congress. Scientific films will be shown each day and the social program includes a number of sightseeing tours. Among other invited lectures, a lecture will be given on the scientific work of the late Professor Dr. Ing. Hubert Schardin.

Official languages of the Congress will be English, French and German. Simultaneous translations of lectures and discussions will be provided. Further information is available from: The Secretariat, 8th International Congress on High-Speed Photography, Box 23, Stockholm 80, Sweden; or from the U.S. National Delegate, Max Beard, 10703 E. Nolcrest Dr., Silver Spring, Md. 20903.

physical understanding of image restoration.

Rensselaer Polytechnic Institute's Office of Continuing Studies, Troy, N.Y. 12181, has announced two intensive one-week courses in Color Technology to be held during the summer. Principles of Color Technology will be held July 8-12 and Advanced Color Measurement will be held July 22-26. Both courses are under the direction

of Fred W. Billmeyer, Jr., Professor of Analytical Chemistry. The course in Principles of Color Technology is intended to provide both theory and practice in the description, specification and measurement of color. It is expected to be of particular interest to industrial personnel responsible for color matching and color control. Advanced Color Measurement is a limited-attendance laboratory course which will provide individual instruction to a group of not more than 12.

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Techniques in High-Speed Photography, a special summer program at the Massachusetts Institute of Technology, Cambridge, Mass., will be held June 17-21, under the direction of Prof. Harold E. Edgerton of the M.I.T. Department of Electrical Engineering. The program will deal mainly with the scientific and engineering uses of high-speed photographic measurement techniques. Discussions will emphasize the uses of high-speed cameras as instruments for giving space-time information on mechanical motions, especially valuable in studies of diverse and abstract actions. The meetings will be held in M.I.T.'s Stroboscopic Light Laboratory where the theory and application of numerous methods will be discussed and studied.

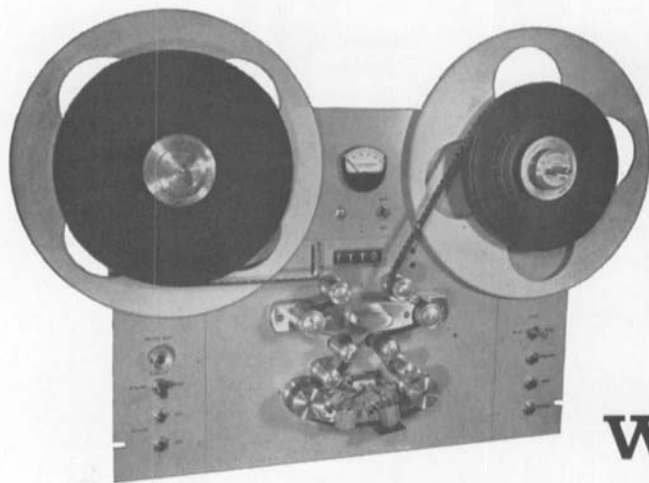
Eleven Years of Photographic Science & Engineering, to be published by the Society of Photographic Scientists and Engineers, 1330 Massachusetts Ave., N.W., Washington, D.C. 20005, will contain abstracts of every paper published in *PSE&E*. Also included will be references to book reviews and biographies from Vol. 1, 1957, through Vol. 11, 1967. The book's subject index will contain more than 500 descriptions and more than 600 authors will be cited. Major section headings will include Photographic Materials, Image Properties, Applied Photography, and Apparatus. The hardbound volume will be priced at \$15.00 with discounts for SPSE members.

The Biological Photographic Assn. will

hold its 38th annual meeting August 12-15 in Los Angeles. Theme of the meeting is Visual Communications in the Bio-Sciences. The program will include presentation of papers and showing of films entered in competition. The films will be in three categories, professional, institutional and sequence, and awards will be made for the best films in each category. Emphasis will be on motion-picture, television and video tape as a means for advancing biological research and instruction. Program Chairman is Richard H. Ray, City of Hope Medical Center, Duarte, Calif. 91010.

The 22d Annual Calvin Workshop, held February 5-7 at Calvin Productions, 1105 Truman Rd., Kansas City, Mo. 64106, was attended by more than 800 persons. Filmmakers and educators and other interested persons from 47 states (including Alaska and Hawaii), Washington, D.C., and four Canadian provinces participated in the three-day event. The keynote address was given by Calvin President, Leonard W. Keck, who spoke on "The New Dimension" and discussed the potential of 8mm and super 8 in the film industry. Guest speakers included Col. James F. Warndorf, Commander, 1352 Photo Group, USAF, and Robert M. Finchout, Vice-President of Association Films. Col. Warndorf's address included a special demonstration on aerial combat photography. Mr. Finchout discussed the distribution of films. The Workshop also included a special demonstration of the picture and soundtrack qualities of 8mm film.

The National Science Foundation, as part of an exchange program between the United States and the Japan Cooperative Science Program, has asked the American Science Film Association to select annually the 50 most outstanding science-education films produced in the United States. The collection will be sent to the National Science Museum in Tokyo for showing to Japanese scientists and educators. Reciprocally, Japan is selecting its best science films for showing in the United States. This project represents the first major national effort to select a high-quality and distinctive selection of science films. Certificates of Distinction will be awarded to the films chosen. The Association requests that films produced by industry having educational merit in the field of science education be included in the collection. Agencies and independent producers in industry who have films of sufficient caliber to warrant their consideration and possible selection for exchange should send preview prints for preliminary evaluation and judging to Arthur M. Sucheski, Audio-Visual Assn. of California, 609 South Broder, Anaheim, Calif. 92804, or to Glenn McMurry, Film Distribution Section, Div. of Cinema, University of Southern California, University Park, Los Angeles, Calif. 90007. Final judging will take place in Washington, D.C., and films for this year's selection must be received before July 1, 1968. Dr. McMurry was one of four Americans invited to the two-nation conference held in March in Tokyo where the discussions centering around exchange of science and educational film resulted in the agreement between Japan and the United States for annual exchange of 50 films.

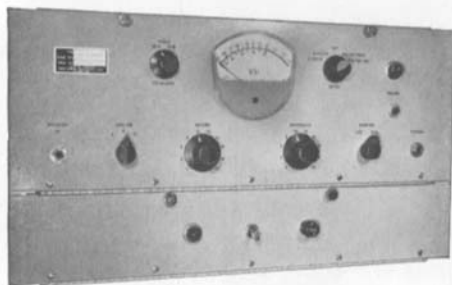


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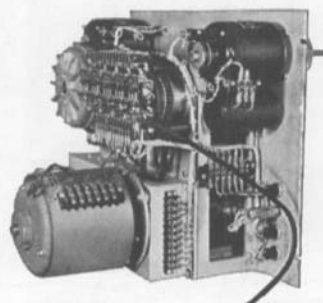
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Raymond Fielding has announced that the name of the University Film Producers Association has been changed to University Film Association to reflect the widening interests of its members. A recent survey showed that more than half of its members were engaged, at least part time, in teaching film. Dr. Fielding is UFA President. He is head of the Division of TV-Radio-Film, University of Iowa, Iowa City, Iowa 52240. The organization will hold its 22nd annual conference August 18-24 at the University of Denver, Denver, Colo. Membership in the UFA is open to American and foreign film teachers, producers and administrators. UFA also represents American film professors overseas as the official United States member of the International Congress of Schools of Cinema and Television. The association also administers two yearly scholarships for graduate students sponsored by McGraw-Hill Book Co. A teen-age film competition is sponsored jointly by UFA and Eastman Kodak Co.

The 1968 National Electronics Convention, Nelcon II, will be held August 20-23 in Auckland, New Zealand, under the auspices of the Institution of Electronic and Radio Engineers and the New Zealand Electronics Institute. Technical papers will be presented and symposia conducted. Papers will be grouped under five general topics: Components and Instruments, Applied Electronics, Research Electronics, Communications, and Data Handling. Topics for discussion at the symposia will include Integrated Circuits and the Elec-

tronics Designer, Communications for Computers, and Automation for Primary Production in New Zealand. Further information is available from: The Secretary, P.O. Box 3266, Auckland 1, New Zealand.

Century Projector Corp. was host to the 25-30 Club of Greater New York on March 14. Highlights of the meeting included a discussion of automation in the theater and demonstrations of new equipment. Larry Davee, President of Century, demonstrated the Century Automatic Control System for projection booth and theater auditorium. The system can be remotely controlled and projector controls and auditorium controls can be operated independently. Mr. Davee emphasized that the equipment was not intended to displace the projectionist but rather to assist him. Also demonstrated was a new type of double-shutter projector and a lens control system developed by Century in cooperation with Kollmorgen Optical Co.

The Rochester Section of the Society contributed to National Engineers Week (Feb. 18-24) by a display shown in the Midtown Plaza in Rochester, N.Y. The display, which was exhibited in a large display area coordinated by the Rochester Engineering Society, showed how SMPTE activities contribute to the world health effort.

National Assn. of Educational Broadcasters, 1346 Connecticut Ave., N.W.,

Washington, D.C. 20036, sponsored four Educational Broadcasting Institutes held during March and April. Co-sponsors were Carolina State University, KNME Albuquerque, N.M., San Francisco State College and Purdue University. Topic for each meeting was Principles of Supervisor Management.

An important collection of antique motion-picture and audio-visual equipment has been returned to the University of Iowa after an absence of nearly five years. The collection is owned by the Archives and History Commission of the National Education Assn. Before 1963, the collection was housed at the University of Iowa under the care of Lee W. Cochran, Director of the University's Audiovisual Center. The collection includes machines as well as books, letters, papers, tapes and files. One of the chefs-d'oeuvre in the collection is an Edison Home Kinetoscope made in 1910 for the showing of slides and 22mm motion-picture film. The machine was given to the collection by M. I. Smith of Hibbing, Minn., who, after obtaining the outer shell, was allowed to search the Edison Laboratory in Menlo Park, N.J. to find the inner parts for it. Other interesting items include a zoetrope made in England in 1828, the oldest piece in the collection. Among many other antiques in the collection are a pre-1920 Gaumont color motion-picture camera; a Keystone radiopticon illuminated with gas; a Praxinoscope Theatre which gave the illusion of motion to painted still images by means of mirrors mounted on a revolving

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disc; the first American-manufactured amateur 16mm motion-picture camera (a Kodak) and the first American amateur 16mm motion-picture projector, manufactured by the Victor Animatograph Co.

The collection will be housed in permanent display cases which will be arranged in the University's Television Center later this year.

The Invisible E — The Civil Engineer is a 16mm film in color and sound (running time, 28 min) released by American Society for Civil Engineers, 345 E. 47 St., New York, N.Y. 10017. The film was produced by Silvermine Films, Inc., and is being distributed to television stations by Sterling

Movies, Inc. The film is available to members of the ASCE as a loan, without charge, or it can be purchased for \$125 for showing to community groups. The film is intended to increase public understanding of the civil engineering profession. The film points out such immediate problems as water and air pollution, water resources, urban redevelopment, new transportation systems and new structures for the future.

Goals of Engineering Education, a final report on a study by the American Society for Engineering Education, has been published in a 74-page paperbound book available from American Society for Engineering Education, 2100 Pennsylvania Ave., N.W.,

Washington, D.C. 20037, at a price of \$2.00. Funds for the study were supplied by National Science Foundation. The report was compiled by Eric A. Walker, President of Pennsylvania State University; George A. Hawkins, Vice-President for Academic Affairs, Purdue University; and Joseph M. Pettit, Dean of Engineering, Stanford University. Recommendations set forth in the report include increased financial support by government and industry; expansion of engineering education facilities to meet mounting demands for higher education in general; part-time advanced degree programs, together with non-degree continuing studies for employees of industry and government; a flexible program designed to develop accreditation procedures and policies which will continue to encourage innovation and experimentation; and others also stressing the importance of engineering education and outlining significant trends.

The American Film Institute, 1707 H St., N.W., Washington, D.C. 20006, has announced a plan to produce feature motion pictures for theater distribution. Purpose of plan as announced by George Stevens, Jr., AFI Director, is "to make it possible for new filmmakers to create motion pictures which might not ordinarily be made . . . and to have these films exhibited . . ." The plan calls for AFI production of films budgeted up to \$400,000. Twelve companies have agreed to participate in financing and distributing AFI projects. Once a project is approved by the financing company, the creative authority will be delegated to AFI. Participating companies are CBS Films, Cinerama, Columbia Pictures, Filmways, MGM, National General Corp., Paramount, Trans-Lux, Twentieth Century-Fox, United Artists, Universal, and Warner Brothers-7 Arts.

A new **Technical Services Division** has been formed at Kodak Research Laboratories, Rochester, N.Y. The new division will comprise the present analytical instrumentation, general and analytical, and microanalytical laboratories of the chemistry division; the spectrophotometry laboratory of the physics division and the photographic service laboratory of the photographic research division. Head of the new division will be Carl W. Zuehlke, assistant head of the chemistry division.

Rank Audio Visual Ltd. and Westrex Co. have signed an agreement providing that Rank Studio equipment extend its distribution rights for all Westrex sound recording equipment to all eastern hemisphere countries, except in Italy, Japan, Hong Kong, Taiwan, Spain, Morocco, India and France. The agreement will mean a considerable expansion to Rank Studio Equipment's marketing activities, the announcement stated. It will affect not only existing products manufactured in the United Kingdom but also those from Italy and the United States.

Visual Electronics Corp., 356 W. 40 St., New York, N.Y. 10018, has announced a new division called Information Systems Division to operate in the metropolitan New York and northern New Jersey area.

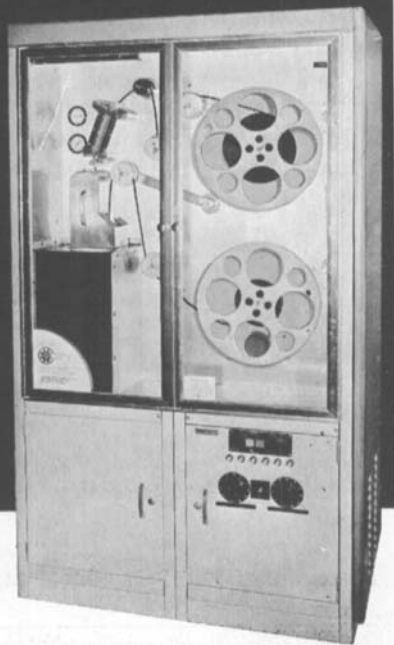
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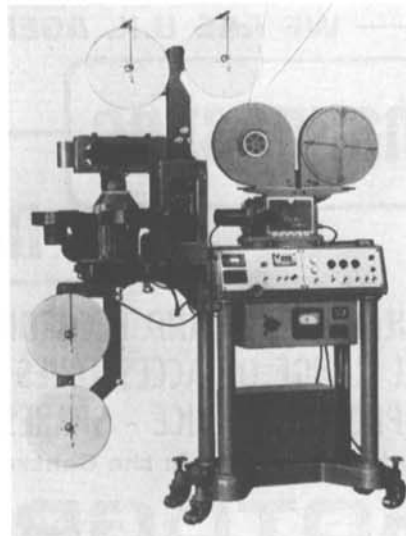
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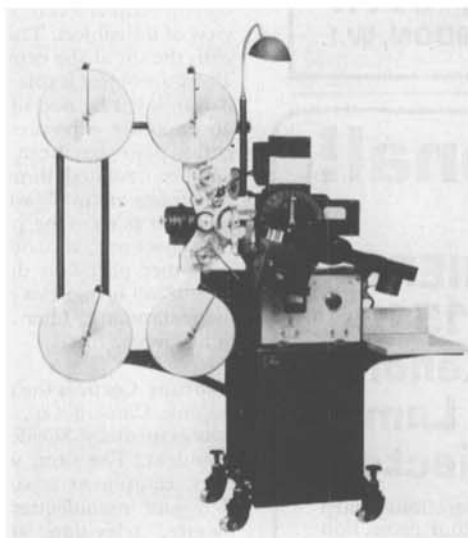
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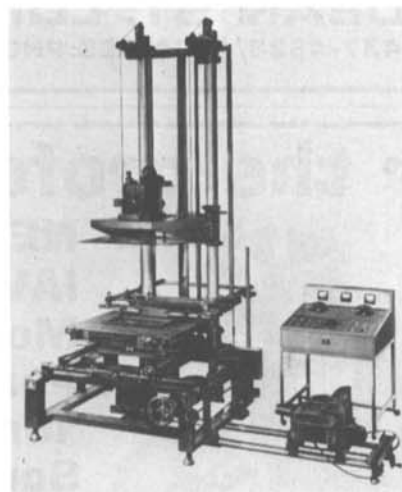


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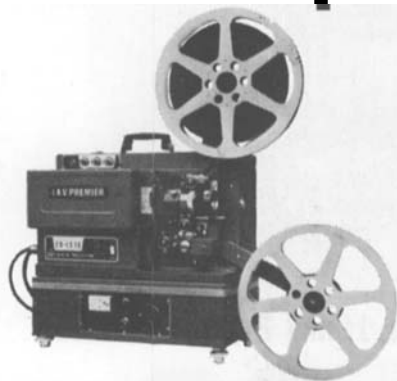
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Camera Mart, Inc., 1845 Broadway, New York, N.Y. 10023, has announced the acquisition of a considerable number of Eclair NPR-16 Noiseless Cameras and accessories for rental, according to terms of an agreement with Eclair Corp. The camera is used mainly for documentary work but can also be used for studio work.

A new kind of hologram made at Bell Telephone Laboratories allows the viewer to see a three-dimensional image rotate through a full circle (360°) simply by moving his head from side to side in front of the flat hologram. Previously, cylindrical holograms were the only type to show a 360° view of an object. To make a flat hologram with a 360° view, vertical strips of the photographic plate are exposed sequentially from left to right across the plate. A narrow slit in a mask in front of the plate allows only one strip to be exposed at a time. Each narrow strip is a complete hologram of one view of the subject. The first view is exposed with the slit at the extreme left of the plate. Then the object is rotated slightly, the mask is translated by one slit width to the right, and another exposure is taken. When the entire plate has been exposed, the object has been rotated through 360°. The new holograms are made with a laser beam split into two parts. One part is reflected from the object onto a photographic plate while the other part falls directly on the plate. The "flat" holograms can be viewed with a monochromatic filter and a strong white light source.


Neptune Corp. is the new name for the old Laumic Camera Co., according to an announcement by Sheldon Kaplan, Neptune President. The firm, which offers product sales, equipment repairs, engineering, design and manufacturing for the motion picture, television and audiovisual industries, is located at 35 W. 45th St., New York, N.Y. 10036 (212-765-4785). Anton Weber is Technical Director of the company.

A new alloy for permanent magnets consisting of cobalt (82%), iron (12%) and gold (6%) has been developed at Bell Telephone Laboratories. The alloy can undergo large amounts of stress without significantly changing its magnetic properties and its coercive force can be conveniently adjusted over a wide range. A magnet made of the alloy has a magnetic flux of 18,000 gauss and a square hysteresis loop.

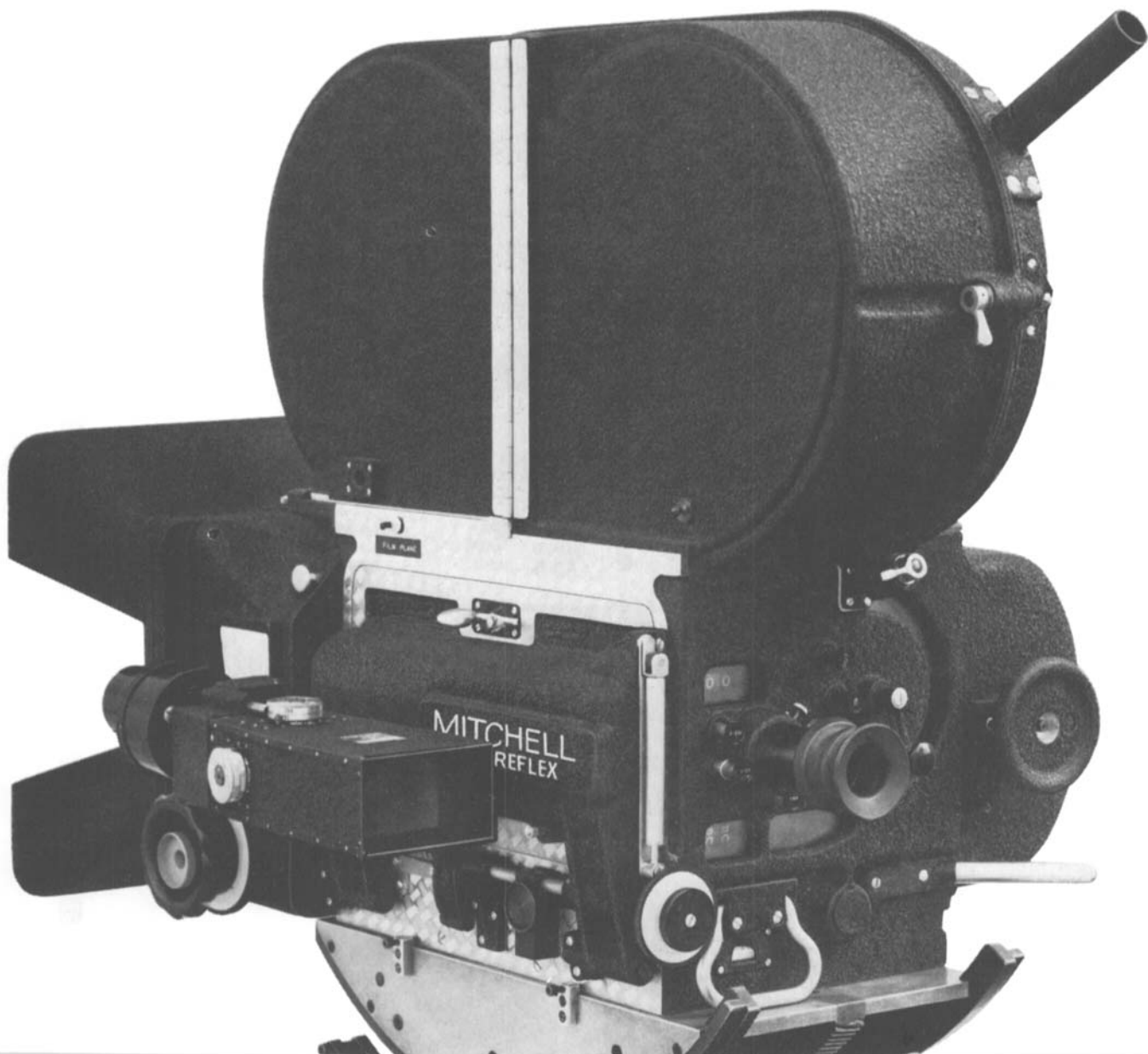
An improved method of etching narrow, precisely defined isolation slots in silicon has been developed at Bell Telephone Laboratories. The new method allows more beam-leaded integrated circuits to be fabricated in a silicon slice than is possible with standard etching techniques. The improved

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Mitchell Camera Corporation / 666 West Harvard Avenue,
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technique requires a unique orientation of the etching mask on a specific lattice plane of the silicon crystal and the use of a "preferential" etchant. The class of preferential etchants now being investigated consists of strongly basic or alkaline solutions. One such etchant is comprised of potassium hydroxide, propanol and water. Precise control of the rate and direction of the etching is possible because a preferential etchant attacks the three main crystal lattice planes of the silicon at different relative rates.

A new optically-nonlinear crystalline material, discovered at Bell Telephone Laboratories, has made possible the first high-power generation of continuous, coherent green light through conversion of infrared laser radiation. The material is called barium sodium niobate. Its useful nonlinear coefficient is high (approximately twice that of lithium niobate) so that it acts as an efficient harmonic generator. An Nd/YAG laser normally produces infrared radiation at 1.06μ , but with a barium sodium niobate crystal in the laser cavity, green radiation at 0.53μ is produced. Development of the crystal is a step toward a continuously-operating, tunable parametric oscillator. Such a device could generate a large number of optical carriers or channels for a future laser communications system.

Kinologic Corp. has developed a magnetic tape recorder for digital applications in a space environment which is capable of four

hours of continuous recording of two data channels at a rate of 10,000 bits/s in a space measuring only 5 by 5 by 6 in. The recorder weighs 5.5 lb and consumes 6 W of power. The storage capacity of 2.9×10^8 bits is made possible by the use of automatic track switching and tape travel direction reversal. A data sheet (bulletin 125A) describing the recorder (Model RSL) is available from Kinologic Corp., 29 South Pasadena Ave., Pasadena, Calif.

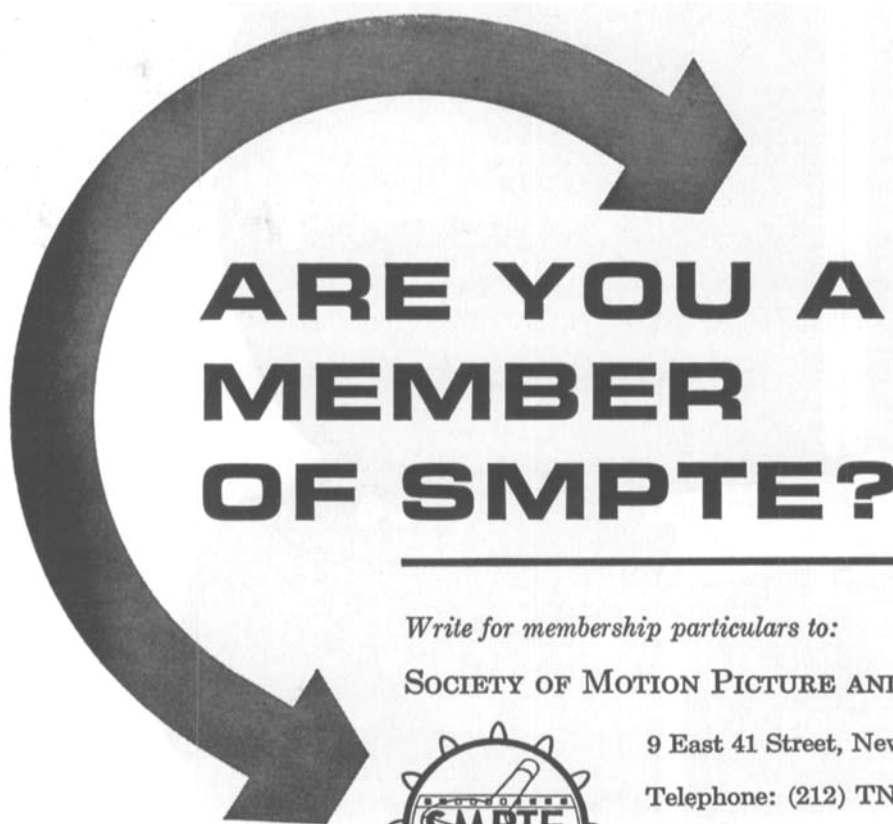
A method of converting electrical signals into colored patterns on a viewing screen in such a way that the screen retains the pattern even when the current is turned off has been reported by Westinghouse Research Laboratories, Pittsburgh, Pa. The technique involves a "liquid crystal" screen developed for use with a modified electron beam scanner; a pattern is produced by varying the intensity of an electron beam as it scans a film of liquid crystal. Still in the experimental stage, video test patterns have been produced on liquid crystal screens which recorded the patterns in hues corresponding to shades of gray in black-and-white displays. The patterns remain until they are electronically erased or until they decay naturally. The experiments were supported in part by an Air Force Avionics Laboratory contract at Wright-Patterson AFB, Ohio, with the aim of improving displays for x-ray, radar and surveillance and reconnaissance instruments.

RCA has announced an agreement with International Video Corp., Mountain View,

Calif., for the purchase by RCA of a quantity of the new IVC-800 color TV tape recorders for closed-circuit. The RCA Broadcast and Communications Products Div. will market the tape machines through its Instructional Electronics Dept. The recorder will be used in RCA closed-circuit TV systems for education and training. It will be priced at \$4,200 for color and \$3,800 for black-and-white.

Visual Electronics Corp., 356 W. 40 St., New York, N.Y. 10018, has announced termination of its exclusive distributorship of Norelco Color Cameras by agreement with Philips Broadcast Equipment Corp. Reason for the termination, according to James B. Tharpe, President of Visual Electronics, is "a foreseeable overlap of product lines manufactured by Visual with those manufactured by Philips Broadcast." Both companies plan the early introduction of new TV transmitters, new audio product lines, new closed-circuit equipment and new color television equipment.

Camera Mart, 1845 Broadway, New York, N.Y. 10023, has announced that it has been awarded the exclusive distributorship in the United States for the Elemack Spyder Dolly and accessories, including the Jonathan Jib Arm Assembly. The 8-wheel dolly is capable of tracking, twisting, turning and crabbing in any direction. The Jonathan Jib Arm Assembly mounts on the Elemack Dolly to convert it into a dolly crane.



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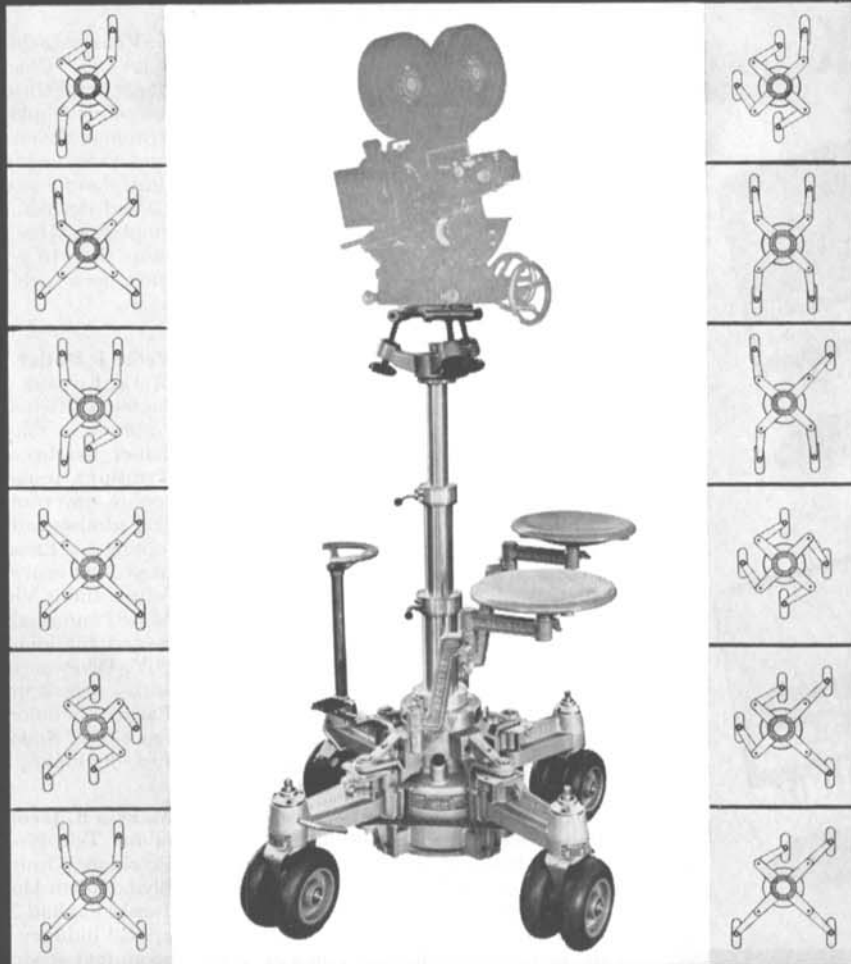
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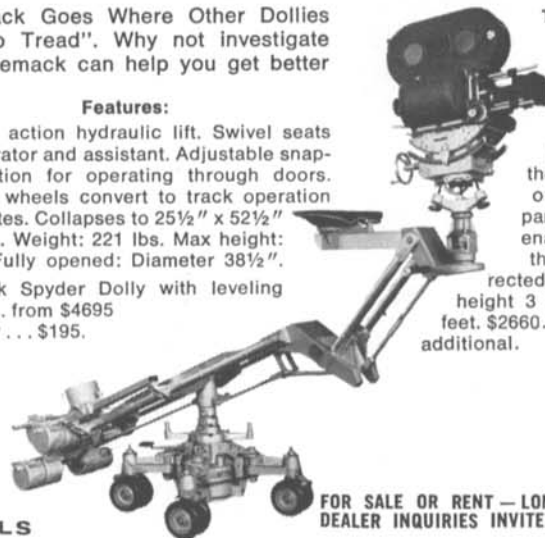
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Commercial Electronics and Climate Control groups of Lear Siegler, Inc., 3171 South Bundy Dr., Santa Monica, Calif., have been consolidated into a single Commercial Products Group. The consolidation affects 13 divisions. Charles F. Pitts will head the new operation as Corporate Vice-President. He was formerly Corporate Vice-President of the Climate Control Group and earlier served as President of LSI's Astronics Division.

Eclair Corporation of America has opened a new service office at 18 W. 56 St., New York. The firm's headquarters are at 7262 Melrose Ave., Los Angeles, Calif. 90046. Head of the new service office is Celia Marx, Eastern Sales Manager. Eric Falkenburg is Service Manager.

The highest known laser frequency measurement has been announced by Bell Telephone Laboratories and National Aeronautics and Space Administration. The measurement was about 10 times more accurate than several previous measurements made of lower frequency lasers. In the joint research experiment, the frequency of a water-vapor laser was measured as 2,527,952.8 MHz with an error of only one part in 25 million. A klystron emitting at about 148 GHz was chosen for the experiment because the frequency of its 17th harmonic (2,527 GHz) is about the same as the frequency of the water-vapor laser. To obtain the frequency "beat" between the known and unknown frequencies, two waveguides were stacked at right angles. The laser light was directed through one waveguide, the klystron radiation through the other. At the intersection of this "crossguide harmonic mixer," a tungsten filament was inserted through a small hole in both waveguides so that it touched a silicon crystal mounted within the bottom waveguide. The tungsten filament, one mil in diameter, had a sharpened point which formed part of a Schottky junction with the silicon crystal. This metal-semiconductor junction generated electromagnetic radiation at the "beat" frequency of the two frequencies in the waveguides. The beat frequency, much lower than either of the applied frequency components, could be measured accurately by external circuitry connected to the tungsten filament. The sum of the beat frequency and the known klystron harmonic frequency gave the frequency of the laser.

Present methods of color control in photography must someday give way to the flexibility and precision offered by computer techniques, according to George Biernson, a senior engineering specialist with Sylvania Electric Products Inc., 730 Third Ave., New York, N.Y. 10017. His headquarters are at the firm's Applied Research Laboratory in Waltham. In an address before a convention of the Master Photo Dealers and Finishers Assn., Mr. Biernson said that high consistency in the quality of color reproduction can be achieved by "pre-storing in a computer full spectral information concerning filters, dyes, lighting, film types, and the reflectivity of objects of photographic interest." He explained that the major difficulty with colorimetry is that "the color-matching experiments on which it is based are subject to human error."

Intercraft Corp., distributors of Sennheiser shotgun and wireless microphone systems, the Jensen 205S synchronizer (Thinkronizer) and other electronic equipment for motion-picture production has opened sales and administrative offices at 354 W. 45 St., New York. The firm also maintains warehouses at Woodside, Queens.

LaVeZZi Machine Works, Inc., 4635 W. Lake St., Chicago, sponsored a dinner dance on February 2 to honor the firm's long-time employees. Founded in 1908, the firm manufactures precision parts and drive sprockets used by the motion-picture industry and for computers and other sophisticated devices. Recognition was given 27 employees who have been with the firm for more than 10 years and 13 employees who have been with the firm for more than 25 years.

Peter J. Butler has been elected Treasurer of LogEtronics Inc., Springfield, Va. He succeeds Richard N. Johnson who will continue as Chairman of the Board. Mr. Butler has been Controller and Assistant Treasurer, responsible for accounting, personnel, government contracts and the general administrative service department since joining LogEtronics in 1965. He is a member of the firm's Executive Advisory Committee and is Vice-President and Treasurer of its Photomechanisms Division, a wholly owned subsidiary in Huntington Station, N.Y. Prior to joining LogEtronics he was with American Machine & Foundry. Earlier affiliations included Northam Warren Corp., Stamford, Conn., and Boland's Ltd. of Dublin, Ireland.

Marvin B. Jacobs has been appointed head of the Television Lens Dept. for Century Precision Optics, 10659-10663 Burbank Blvd., North Hollywood, Calif. 91601. Mr. Jacobs has had 20 years of experience in the optical industry as an optical engineer and zoom lens servicing consultant. He holds a degree in optical science from the University of Jena, Germany.

Bruce E. Harris has been appointed Sales Manager for Arriflex Corp. of America, 25-20 Brooklyn-Queens Expressway West, Woodside, N.Y. 11377. He has been with Arriflex for six years and with Berkey Photo, Inc., the parent company, for 13 years.

Ernest W. Merker has been appointed to the newly created post of Vice-President, Engineering and Operations, for Recorded Publications Laboratories (RPL), Camden, N.J. As RPL's Chief Engineer for the past 13 years, Mr. Merker has developed, designed and supervised installation of studios and equipment for commercial, industrial and educational sound applications. In his new post he will continue to supervise equipment and production aspects of existing audio-visual sound media and design new equipment to expand the usefulness of new techniques.

Herbert Meyer has been appointed Chief Scientist with the newly founded Motion Picture Research Center, 8480 Beverly Blvd., Hollywood, Calif. 90048. He was

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John H. Mattson has been appointed Vice-President in Charge of Engineering and Manufacturing for Mitchell Camera Corp., manufacturers of theatrical, documentary and scientific cameras. He was formerly with Century Engineers, Inc. (re-named Royal Industries, Inc.) and later formed his own organization, Hi-Spec Electronics Corp., in North Hollywood. In 1965 he joined Weber Aircraft Co. as Aerospace Manager, following the merger of Hi-Spec Electronics.

Hans Chr. Wohlrab, who as director of engineering was responsible for the design of the Model C Color Printer, has resigned from Bell & Howell Co. to join Hollywood Film Co., 956 Seward St., Hollywood, Calif. 90038, as Chief Engineer. In his new assignment, Dr. Wohlrab will be directing the company's new program in laboratory equipment.

Allan M. Koerner, Assistant Director of the Photographic Technology Div., Kodak Park Works, Eastman Kodak Co., has announced plans to retire during 1968. Except for a two-year hiatus (1943-1945) when he assisted with the Manhattan Project in Oak Ridge, Tenn., he has been with Kodak since 1936. In 1945 he returned to Rochester where he assisted in the organization of the Color Control Div. (which later became the Photographic Technology Div.). In 1949 he was appointed Assistant Director of the division. From 1953 to 1958, he acted as supervisor of the quality control staff of the Color Print and Processing Organization and in 1958 he returned to the Photographic Technology Div. as Assistant Director. Following his retirement he will be succeeded by Howard W. Vogt who joined Eastman Kodak in 1939 as a technician in the Cine Processing Dept. of Kodak Park Works.

George J. Dorman, Manager, Visual Services, U.S. Steel Corp., Pittsburgh, celebrated his 50th anniversary with the company on March 26. His career with U.S. Steel began in New York when he was 13 years old. Later he was transferred to the Public Relations Department of the firm where he participated in the production of *Steel — Man's Servant*, the first industrial motion picture to be made in Technicolor. In 1940 he was transferred to the Advertising Department in Pittsburgh as Manager of Motion Pictures and Visual Aids where he developed U.S. Steel's motion-picture distribution system.

Nineteen appointments at Kodak Research Laboratories, Rochester, N.Y., have been announced by John A. Leermakers, Vice-President of Eastman Kodak Co. and Director of the Research Laboratories. Newly appointed senior research associates are William J. Dulmage, Edgar A. MacWilliam, R. Gilliam Rudd and David W. Stewart. New members of the senior staff are Charles A. Bishop, Lee Fleckenstein, John A. Haefner, Russell E. Jenkins, Ray S. Kicklighter, Bruce H. Klanderma, Jerome J. Looker, Arnold P. Lurie, Detlef Matz, Patricia A. McVeigh, Robert J. Wilson, David V. Young, Wendell F. Smith, Forrest C. Strome and Carl J. Williams. Senior staff appointments are in recognition of scientific achievements or increasing responsibilities in the laboratories.

Cyril A. Horton has retired from the post of Assistant Head, Applied Photography Division, Eastman Kodak Co. Dr. Horton joined Kodak in 1943 and worked on the production of military optical instruments at Canadian Kodak, Ltd. He transferred to Kodak Research Laboratories in 1945 and worked on the development of various color processes. In 1951 he was assigned to the Black-and-White Photography Division and in 1954 he was appointed Head, Graphic Arts Department, Applied Photography Division. In 1955 he was appointed Assistant Division Head in charge of graphic arts.



ATLANTA, Dec. 11 — The Atlanta Section held its December meeting at the new Marketing Education Center of Eastman Kodak in Atlanta.

Gene Myler, Eastman Kodak Co., Program Chairman, presented the program *Concepts in Communication*, Kodak's new multimedia audiovisual presentation designed to encourage the use of motion pictures, slides and other visual aids. It is a wide-screen presentation, completely synchronized and portable. Kodak's new super 8 equipment showed how teachers could use the equipment to stimulate slow learners.

Following the presentation, members of the Kodak staff conducted a tour of the Center, pointing out the latest in room de-

sign, flexible room space, computer-assisted photographic learning devices, and demonstration areas.

Refreshments were served courtesy of the Eastman Kodak Co. — Hubert Jenkins, *Chairman*, Public Health Service Audio-visual Facility, National Communicable Disease Center, Atlanta, Ga.

CAPE KENNEDY, Jan. 31 — Dr. Walter P. Siegmund of the American Optical Research Staff was the speaker at the January meeting of the Cape Kennedy Section. Thirty-eight persons attended the meeting held at the Kennedy Hilton Hotel.

Dr. Siegmund related the history of fiber optics from the first crude manufacturing