

The New York Chapter of SPSE (Society of Photographic Scientists and Engineers) has announced a seminar on Color to be held May 9-10 at the Barbizon-Plaza Hotel in New York. The Chairman will be Prof. Lloyd E. Varden. The Chapter's next meeting will be held March 20. The topic will be Advances in Aerial Photography. Guest speaker will be Edward G. Tibbils of Eastman Kodak Co. The following meeting will be held April 17. Emmett N. Leith, Associate Professor of Electrical Engineering at the University of Michigan, will speak on Holography's Practical Dimension. On May 15 the topic of the meeting will be Mixed Dye Sensitization in Silver Halide Emulsions. The speaker will be Leo D. Croben of Technical Operations, Inc. Further information is available from SPSE New York Chapter, P.O. Box 678, Church St. Sta., New York, N.Y. 10008.

A course on Image Processing will be held August 5-16 at Massachusetts Institute of Technology. The intensive course will cover the theory and techniques of optical and computer image processing. Topics from image enhancement and biomedical image analysis will be discussed. Further information about the course is available from the Director of the Summer Session, Room E19-356, MIT, Cambridge, Mass. 02139.

The Institution of Radio and Electronics Engineers of Australia has been granted a Royal Charter. Founded in 1924, the Institution now has more than 2,300 members in nine regional divisions in Australia. It also has members in 29 other countries. The membership consists of professional engineers and scientific and technical personnel. Only one other comparable institution in the British Commonwealth has been granted a Royal Charter. The Institution's interests include military weapons systems, radio astronomy, communications, guidance and satellite tracking systems, design and application of computers, instrumentation for medical diagnosis and research, industrial process and nuclear control, and related fields.

A symposium on Microphotography — Fundamentals and Applications will be held April 4-5 in Wakefield, Mass., under the auspices of the Boston Chapter of the Society of Photographic Scientists and Engineers. The symposium will explore the theories and practices of microphotography as employed in information handling and photofabrication systems. Pertinent practices, optics, mechanical devices, recording mediums, chemical treatments and related subjects will be discussed. Recent advances in applications of microphotography to microelectronic circuitry, optical test patterns and scales, high-density storage systems and microintermediates will be examined in detail for possible solutions. Future systems and/or requirements will be sug-

Biographical Note



Arthur J. Miller

Arthur J. Miller, now a consultant, has spent more than 40 active, productive years in motion pictures. During his long and distinguished career he has received many honors for his varied achievements. In 1956 he was described as a "pioneer in developing wide-screen motion-picture films and processes," on the occasion of his appointment to the post of Technical Director of Pathe Laboratories. Although his contributions to motion-picture technology covered a far wider range than wide-screen processes, during World War II he joined Viterama Corp. (on leave of absence from Republic Pictures Corp.) where he worked with Fred Waller on the Waller Gunnery Trainer, the forerunner of Cinerama. From 1941 to 1945, he supervised the building of the camera and then operated the camera on bombing flights to make gunnery training films.

Educated at Rochester Institute of Technology and The University of Rochester, he became associated with Eastman Kodak Co. where he remained for 13 years. In 1932 he was appointed Technical Director of Consolidated Film Industries (CFI) (Republic Pictures Corp.) in Fort Lee, N.J. Following World War II he returned to Republic Pictures Corp. where he was made Vice-President and Director in charge of the eastern operation of the CFI, Fort Lee, N.J., division.

Between 1945 and 1955 he conceived and developed the Trucolor process and supervised the design and construction of equipment for the process. He was granted a number of patents on equipment used for this process. Later he developed other color processing equipments which were also patented by him. From March 1955 until May 1956 he worked with the American Optical Co. on the Todd-AO process where he acted as consultant on optical printing problems. He was with Pathe Laboratories

gested. Keynote speaker will be G. W. W. Stevens, author of *Microphotography*. Mr. Stevens is associated with the research Laboratories of Kodak Ltd. and is a Fellow of the Royal Photographic Society. Further information is available from Ara Hourdajian, Itek Corp., 10 Maguire Rd., Lexington, Mass. 02173.

Applications of Lasers to Photography and Information Handling is the subject of a seminar, sponsored by the Society of

from 1956 to 1959 and also collaborated on the design of the Hazeltine Color Film Analyzer. In 1959 he became associated with Du Art Film Labs in New York where he remained until his resignation in September 1967. During that time he developed a method (for which he was granted a patent) of using fiber optics to carry the light from the lamphouse to the printer aperture in motion-picture printers.

Mr. Miller joined the Society in 1938 and became a Fellow in 1953. His many activities on behalf of the Society include service on the Board of Governors. He has also served (and continues to serve) on various committees including the Color Committee, Film Dimension Committee and Honorary Membership Committee. He is chairman of the two last-named committees. He is also very active in the Society's New York Section and has served at various times as Manager, Secretary-Treasurer and Chairman. Professional affiliations other than the Society include the Association of Cinema Laboratories, of which he is a Past-President.

Edit. Note: In compiling the Biographical Notes for the *Journal* it is not always easy to accumulate the "facts and figures" about a man's career. It is less easy to delineate the man as a real person as seen through the eyes of his friends as well as in terms of his accomplishments. We are greatly pleased to be able to quote this warmly human comment by John I. Crabtree, Honorary Member of the Society, which we received during our search for information for this Biographical Note.

"When the Filter Department in the Research Laboratories of Eastman Kodak Co. was moved to the Hawk Eye Works, 'Art' was transferred to the Film Developing Dept. of the Department of Photographic Chemistry under my direction. His inborn mechanical ability soon asserted itself and in due course he was made foreman of the department.

"It was during this period that sound recording on motion-picture film was evolving. This new activity required a knowledge of photographic sensitometry which was then unavailable in most commercial laboratories. Upon receiving an urgent request from Joe Coffman of Consolidated Film Laboratories for a person with such experience, I was glad to recommend Art who joined the Fort Lee Laboratory. His subsequent successful career is recorded elsewhere.

"In spite of an apparent easy-going attitude he was efficient but hard-headed on occasion. Through the years the technique of processing motion-picture film has benefited greatly by his efforts."

Photographic Scientists and Engineers, to be held April 25-26 in New York. Major topics will include Introduction to Lasers; Image Formation With Coherent Light; Laser Beam Printing and Recording; Principles of Holography; Matched Filtering; Acoustic Imaging; Holographic Particle Sizing; Holographic Microscopy; Holography in Alkali Halide Crystals; Future of Holography; Laser Beam Scanning for High-Density Data Storage and Retrieval; Laser TV Systems (including a demonstra-

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tion); and Computer Applications of Lasers. Guest Speaker will be Professor Emmett N. Leith of the University of Michigan. Further information is available from SPSE, 1330 Massachusetts Ave., N.W., Washington, D.C. 20005.

The Atlanta International Film Festival will be held April 8-13 in Atlanta, Ga. Films will be shown in five categories: Feature Films, Documentary, Short Subjects, TV Commercials and Experimental. Experimental films may be live action, mixed media (more than one technique) or animation. A number of prizes will be presented. The grand award (best of festival) will be the Golden Phoenix. The Eastman Award will be a \$1,000 grant of Eastman color motion-picture film for the best Experimental production. The Eastern Hemisphere Award will be presented for the best international film dealing with flight. A number of other trophies and plaques will be awarded for films in various categories.

Victor Animatograph Corp. of Davenport, Iowa, has presented the University of Iowa's Division of TV-Radio-Film with corporate papers, photographs and memorabilia collected by the late Samuel G. Rose. The collection was donated by his daughter, Miss Mary Rose of Davenport. The Victor Animatograph Company was founded in 1910 by Alexander Victor. That same year Samuel Rose joined the firm as a salesman. Later he became Sales Manager and then Executive Vice-President. In 1946 he became President of the Victor company. He retired in 1958 and died in 1966. The firm originally manufactured slide projectors, educational slides and silent 35mm motion-picture projectors. In 1923 the firm introduced a line of 16mm cameras and projectors. This event has been described as "the birth of the nontheatrical film industry."

In addition to corporate papers, the collection contains letters and papers, antique motion-picture equipment, films, photographs, instruction manuals for all makes of early motion-picture apparatus, and some 28 scrapbooks which contain items valuable to the historian of motion pictures. The collection was accepted on behalf of the university by Raymond Fielding of the Division of TV-Radio-Film. He described it as a major acquisition for the university's already extensive collection of motion-picture memorabilia.

Music & Artists is a new publication "for those who create music and those who enjoy music" announced by Music Journal, 1776 Broadway, New York, N.Y. 10019. The magazine will contain articles about musicians, opera companies, concerts, "behind-the-scenes" stories and information about opening of new auditoriums, premiers, television and reviews of performances. There will be five regular issues of the new magazine with, as a sixth issue, *Music & Artists Annual Directory* (formerly *Music Journal Artists' Directory*). Publisher of the new magazine is Al Vann. The Editor is Judd French.

IIT Research Institute, 10 W. 35 St., Chicago 60616, has announced that attendance at the Scanning Electron Micro-

scope Symposium (*Jour.*, p. 52, Jan. 1968) to be held April 30-May 1, has been limited to 200. The limitation was necessary because of the large advance registration, according to Symposium Chairman, Om Johari, of the IITRI Metals Division. A second symposium may be held later if registration requests exceed the 200 limit.

The symposium will be held in the IITRI Research Tower on the campus of the Illinois Institute of Technology. Invited speakers from the United States, England and Japan will present 14 papers on the operation and applications of the scanning electron microscope. Papers will cover techniques for using the instrument in fields including fractography, surface contamination study, powder science, biological studies, electronics, fiber and composites research and chemistry.

The First International Colloquium of Research and Educational Cinematography will be held June 10-14 in Brno, Czechoslovakia, under the auspices of the Jan Evangelista Purkyně University in collaboration with the Czechoslovak Scientific Film Association at the Czechoslovak Academy of Sciences. The Colloquium will be arranged in two sections, Research Film and Educational Film, which will be in session at the same time. Films in both sections will be grouped in five categories: Medical Sciences, Natural Sciences, Humanities; Technical Sciences and Agricultural Sciences.

Manual on Film Evaluation, by Emily S. Jones, is available from the Educational Film Library Association, 250 W. 57 St., New York, N.Y. 10019, at a price of \$2.50. Miss Jones is Administrative Director of EFLA. The *Manual* which replaces an earlier publication prepared by EFLA for Unesco, is intended to provide practical information for both experienced film users and students in teacher training programs and library schools. The 32-page, paper-bound book measures 8½ by 11 in. which permits full-size reproductions of film evaluation forms. Among chapter headings in the manual are: Why Evaluate?; Attitudes of Evaluators; What is a Good Film?; The Chairman Prepares; Forming the Committee; Writing the Synopsis; Technical Quality; The Final Result; and Evaluating the Evaluator. In addition to the EFLA Evaluation Form, the *Manual* includes Evaluation Forms used by CINE, the 1967 American Film Festival, and the National Council of Churches.

The Laser Industry Association, 2520 Colorado Ave., Santa Monica, Calif. 90406, held its first general meeting and election of officers January 8-9. Officers are: President, Arthur Lubin; President-Elect, Mason Cox; Treasurer, Charles Berlington; Secretary, Arthur Johnson. Seven committee chairmen, who are also members of the Board of Directors, were appointed. They are: Legislative, Arthur E. Jones; Safety, William Ham; Public Communications, William Bushor; Finance and Membership, Anthony Johnson; Standards and Measurements, Richard G. Seed; Military Applications, Harrison Merrill; and Marketing Information, Ronald Barker. Four members of the Board of Directors were

designated Directors-at-Large. They are: Arthur Schawlow, Theodore Maiman, Samuel Fine, M.D., and William Schwartz.

A laser tracking and ranging system for use in manned explorations of the moon will be developed by RCA's Astro-Electronics Div., Princeton, N.J., for NASA's Manned Spacecraft Center. An engineering model will be built to test the feasibility of using a laser beam tracking system on the moon to pinpoint the position of an exploring astronaut or vehicle equipped with a special reflector to redirect the light beam back to its source. The model will have an initial range of 700 m with provision to extend it to 8,000 m with modifications. It will be tested in a desert environment simulating the lunar terrain, but the performance would be better on the moon because of the lack of atmosphere that would interfere with the laser light beam. The engineering model will utilize a gallium arsenide laser injection transmitter. It is planned to locate a point to within less than 1 m at ranges adequate to reach the lunar horizon. The system, as planned, could be attached to a landing vehicle or roving vehicle to fill functions similar to those of instruments used by land surveyors on earth. An astronaut, leaving the vehicle, could carry a staff having a special reflector. The laser system would lock onto the exploring astronaut and follow his movements.

The U.S. Industrial Film Festival, 333 N. Michigan Ave., Chicago 60601, has appointed a Board of Advisors, it was announced by the Festival Chairman, J. W. Anderson. Members of the board include O. H. Coelln who is Editor and Publisher of *Business Screen*, Peter D. Crane of Johnson Wax and Marv Gold of Gerson, Howe and Johnson. The festival will recognize 16mm industrial motion pictures and 35mm film strips at an awards banquet April 25 at the Pick Congress Hotel in Chicago.

Obituary



Robert C. Rheineck

Robert C. Rheineck died December 19, 1967, at the age of 47. He was a native of Rochester, N.Y. He was graduated from Wittenberg College, Springfield, Ohio, in 1941. Immediately following graduation, in June 1941, he joined the Photo Products

Magnasync/Moviola has opened a new sales, service and rental facility at 1429 Ivar Ave., Hollywood, Calif. 90028. Technical equipment produced by the firm includes film editors, recorders, synchronizers and rewinders as well as multichannel recording systems for space, defense, municipal and commercial applications.

Consolidated Film Industries, 959 Seward St., Hollywood, Calif. 90038, has expanded its facilities to include four more 16mm color picture and track printing machines, it was announced by Sidney P. Solow, CFI President and General Manager. The multi-format machines handle eight different formats of color release film, one directly following another, with no machine adjustment time loss in between. The firm also has in service a 35mm to 16mm reduction printer which operates at 200 ft/min.

Holland-Wegman Laboratories, Inc., 207 Delaware Ave., Buffalo, N.Y. 14202, has acquired Labcraft International Corp., Cleveland, Ohio, and will operate it as Holland-Wegman Laboratories, a wholly owned subsidiary. Robert F. Blair has retired as President of Labcraft but will remain with the Cleveland firm as a consultant.

Polarizing materials to be used in making glasses to be worn when viewing 3-D motion pictures have been ordered by Artistas Argentionos Asociados, S.A.C., from Marks Polarized Corp., Whitestone, N.Y. The glasses will be used by audiences viewing 3-D motion pictures to be shown in theaters in Buenos Aires and other cities in the Argentine Republic. The 3-D motion pictures were produced by a system in which the entire image is on one 70mm film and only one projector, with special optics, is required for projection. Earlier 3-D motion pictures used two films and two projectors.

Department of E. I. du Pont de Nemours & Co. as supervisor. Subsequent affiliations included Columbia Broadcasting System where he was Manager of Technical Operations and Chief Engineer for CBS News Film Production. While he was at CBS he was active in the coverage of a number of top news stories, including the coronation of Queen Elizabeth II and several political conventions. He remained with CBS for 14 years and then joined Color Service Co., in New York, as Chief Engineer. While with Color Service he engineered and supervised the construction of a new color motion-picture film processing laboratory. In June 1967 he joined Holland-Wegman Laboratories, Buffalo, N.Y., as Director of Operations, a post he held until his death.

He became a member of the Society in 1945 and throughout the years he was active in Society affairs. In 1959, he was Arrangements Chairman for the Society's 86th Technical Conference in New York. In 1960 he was made a Fellow of the Society. He was elected Governor of the Society in 1959 and in 1961 he was appointed Chairman of the Papers Committee, a post he held for two years.

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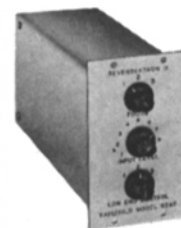
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