

Picture and Television Engineers, and hereby certify the following:

(a) That I have retired from active business life.

(b) That I am over the age of 65.

(c) That I have been an Active and/or Fellow member of the Society for a total of twenty (20) years; and that I have been a member for the last five (5) consecutive years prior to this application.

C. S. Stodter, *Executive Secretary*

Education, Industry News

Sixty papers grouped under eleven session topics were presented at the **Annual Conference of the Society of Photographic Scientists and Engineers** held May 7-11 in Boston. In addition, a group of four invited papers covering the very latest developments and findings in the field was presented Wednesday evening, May 9. More than 40 exhibitors displayed recently developed equipments and demonstrated new techniques at the exhibit held in conjunction with the Conference.

Session topics covered Cameras and Photoinstrumentation; Aerial Reconnaissance; Exposure Theory; Optoelectronic Printing; Processing Equipment; Processing Techniques and Materials Technology; Image Theory and Measurement; Photosensitive Systems and Theory; Densitometry and Sensitometry; Processing Chemistry; and Satellite Photography.

Highlights of the Conference included

a paper presented by Leonard W. Tregillus, of Kodak Research Laboratories, which described web processing, a method designed for emulsions such as Kodak Special High-Definition Aerial Film. The film is brought into contact with a web of water-receptive material previously soaked in processing solution. The solution acts as both developer and fixer. Fixing is accomplished by means of the deposit of undeveloped negative silver in the web. After the film has been in close contact with the web for the specified time, the web is peeled off the film and the negative is dried.

Also described in a paper presented at the SPSE Conference was a recently developed method for testing the photographic inertness of materials used in photoprocessing. The paper, by Paul J. Mutter and Lloyd E. West, Eastman Kodak Co., noted that the method, now under consideration by the American Standards Association Sectional Committee PH4 on Photographic Processing, does not require any specialized equipment. Construction materials are tested with the same equipment, techniques, solutions, film and paper used in production.

InterTel, N.V., a new television program recording organization operating throughout Europe, uses a specially built Marconi mobile four-camera television outside broadcast and video-tape recording unit which incorporates a number of new features. The unit consists of two semitrailer



Carlos H. Elmer, Past Chairman of the SMPTE Engineering Committee on High-Speed Photography and Instrumentation, left, presents copy of the **Proceedings of the Fifth International Congress on High-Speed Photography** to **Donald Douglas, Sr.**, Chairman of the Board, Douglas Aircraft Co. Mr. Douglas served as a member of the Committee of Honor of the Fifth Congress, and the volume was presented on behalf of President Services in appreciation of Mr. Douglas' long-standing interests and support of this field of technology.

vehicles, one housing camera channels and associated equipment and the other the video-tape recorders. Each is towed by a 7-ton Bedford long-wheel-base tug. Although in the form of two separate vehicles the television and video-tape recording

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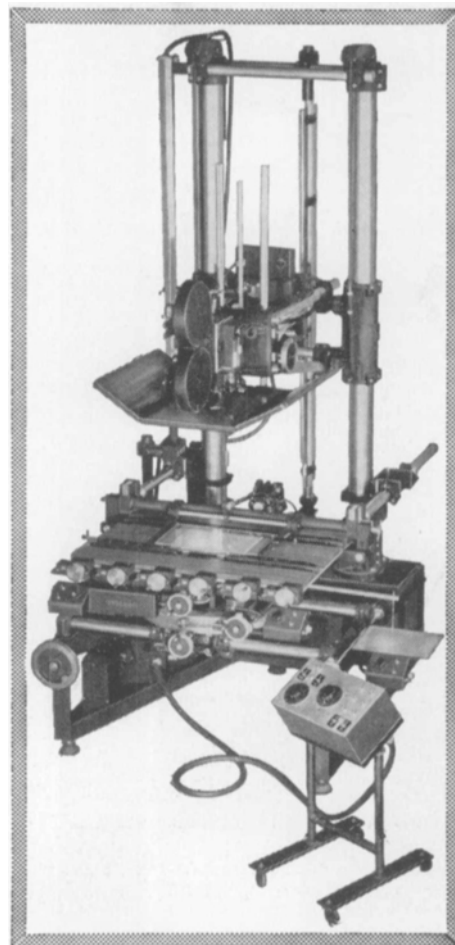
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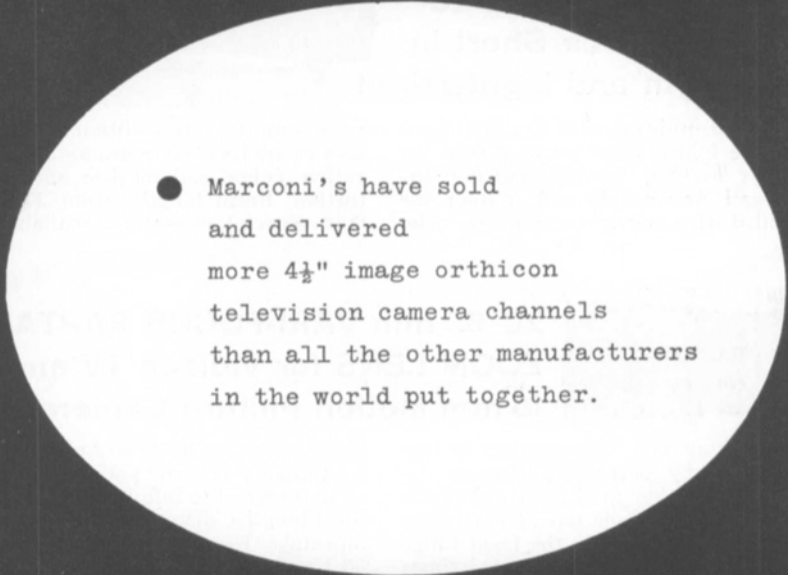
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units are designed to operate in conjunction while on the move. Equipments installed in the camera vehicle include four Marconi Mark IV image orthicon camera channels. The recording vehicle houses two Ampex VR 1000C Videotape Recorders together with monitoring and interswitch equipment. InterTel, N.V., of Amsterdam, Holland, for which the unit was designed and manufactured, is the holding company of an international group of InterTel companies presently located in Paris, Brussels, Munich, London and New York, and (expected in near future) Rome, Madrid and Stockholm.

The First International Television Programmes and Equipment Fair will be held in Lyons, France, at the Palais des

Congrès Internationaux, September 10-19, 1962. The technical organization of the Fair is being arranged by Radiodiffusion Télévision Française. Exhibits are expected to include all types of equipments for TV and motion-picture production. Equipment for simultaneous translations into six languages will be installed in the main auditorium which seats 1200 persons. Six film projection studios will also be available for showing 35mm and 16mm film, and exhibitors will also be able to rent private offices for showing 16mm films. Further details can be obtained from the Marché International des Programmes et Equipements de Télévision, Palais de la Foire Internationale, Quai Achille-Lignon, Lyons, France.

A joint exhibit will be shown at the Instruments Electronics and Automation Exhibition to be held at Olympia, London, England, May 28-June 2, by the Specialized Components Division and the Closed-Circuit Television Division of Marconi's Wireless Telegraph Co., and Marconi Instruments Ltd. The Specialized Components Division produces such items as crystal ovens, crystal filters, isolators, circulators, delay lines, harmonic filters, waveguide assemblies, and the like.

A communications satellite constructed in Bell Telephone Laboratories will be used in an experimental satellite system called Telstar designed to relay microwave signals over long distances. The satellites will be launched by NASA under a cooperative agreement with the American Telephone and Telegraph Company. The satellite is 34½ in. in diameter with 72 flat faces, or facets and weighs about 170 lb. The metal framework is made of magnesium and the shell is of aluminum which is coated with aluminum oxide sprayed on by a plasma jet process. Solar cells will be mounted on most of the facets. The Telstar orbit is expected to range in altitude between 500 and 3000 nautical miles inclined 45° to the equator. The Telstar system was described in a paper at the 91st SMPTE Convention held in Los Angeles April 29-May 4.

Availability of large-screen, portable, television projection equipment especially designed for school, club, industrial and home users has been announced by TelePrompTer Corp., 50 W. 44 St., New York 36. The firm plans to feature the Amphicon "200," a 120-lb black-and-white projector said to supply a bright, high-definition picture up to 18 ft wide for either closed-circuit or off-the-air use. It is priced at under \$3000. A color projection system is in development, the announcement stated, and a smaller black-and-white projector is expected to be introduced later this year.

Consolidation of the American Institute of Electrical Engineers and the Institute Radio Engineers, if approved by membership of the two organizations, will conform to certain broad outlines agreed upon by the Boards of Directors of the two organizations, according to a jointly issued announcement. A tentative name for the consolidate group is the Institute of Electrical and Electronics Engineers. Grades of membership would correspond to existing grades in both groups, although in some cases there might be nomenclature changes. Dues for each grade of membership would be based on the lowest rate for the corresponding grade in either organization. Upon completion of consolidation, the new group would have an international membership of some 150,000.

A tower of photography, surrounded by an elevated plateau with walkways and photoscenic vistas, will highlight Eastman Kodak Co.'s exhibit at the 1964-65 World's Fair in New York City. The tower is planned as a circular structure 80 ft high and nearly 80 ft in diameter. Enormous color photographs will be displayed on the exterior of the tower. The Kodak exhibit



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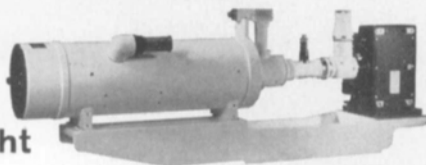


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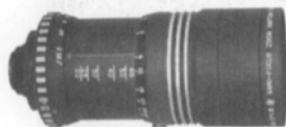
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will also include a film theater seating 280 persons. The dome-like design of the theater will permit the use of unusual projection techniques. On the ground level of the exhibit, color transparencies, prints and projected visuals will illustrate the progress of photography from George Eastman's early dry plate process to space-age photographic science.

Scientific and engineering uses of high-speed photographic measurement techniques will be the subject of a one-week seminar at the Massachusetts Institute of Technology beginning Monday July 16. The Seminar will be directed by Professor Harold E. Edgerton of the Department of Electrical Engineering. One of the aims

of the seminar is to give a practical working knowledge of the various high-speed cameras presently available. The seminar is planned so that the mornings will be devoted to theory and demonstrations and the afternoons to laboratory practice and instruction in the actual operation of various equipments. Specialists in high-speed photography will lead discussions and aid in demonstrations of high-speed equipment. Further information can be obtained from the Office of the Summer Session, Room 7-103, M.I.T., Cambridge 39, Mass

The Biological Photographic Association and University of California Extension, Berkeley, Calif., will conduct a conference August 20-24, 1962, in San Francisco, on

the uses of photography in science. The program, designed for persons who use photography as a tool in research and industry, includes a review of the physical sciences which concern the scientific photographer, a study of applied scientific photography, and a survey of new developments in technology. The conference will be supplemented by the showing of motion pictures and display of still photography. A conference schedule and enrollment forms may be obtained from the University of California Extension, Berkeley 4, Calif.

The U.S. Army Language School at the Presidio, Monterey, Calif., has installed closed-circuit equipment specially designed by General Electric Co., P.O. Box 4197, Lynchburg, Va., to meet specific requirements imposed by the speed with which proficiency in certain languages must be acquired. Each year the Army Language School must graduate about 2000 men from a 47-week course, each of whom can handle at least one of 28 foreign languages like a native. Each class is limited to eight students which means that about 250 classrooms must be available. The use of closed-circuit television is one of the key techniques in this intensive instruction. The system is designed for easy separation of the video and audio signals, so that instructors in a number of different languages can use the same visual presentation. For example, students of Japanese, Burmese, or Vietnamese can each watch the same picture while hearing the audio portion in the language he is studying.

The Armonica, a musical instrument developed by Benjamin Franklin, is one of the unusual musical instruments and techniques seen and heard by audiences viewing *Music of Williamsburg*, a color film which treats of music as an expression of and influence upon cultural development in the United States from colonial times. Such divergent influences as jazz and 18th century chamber music are used to develop the theme of the film. Produced by Colonial Williamsburg, Inc., the motion-picture was made entirely on location in and near Williamsburg. Benjamin Franklin's Armonica produced sounds by rotating an arrangement of descending-sized glass bowls. When the "musician" touched a wetted finger to the revolving glasses the resultant sound allegedly caused young ladies to swoon.

The film is available for purchase or rental through Colonial Williamsburg's Film Distribution Section in either a 40-min length, or a 29-min version.

A total of 22 Milliken cameras, including DBM-4A, DBM-5A and the DBM-9 underwater camera will be purchased by the U.S. Navy at an approximate cost of \$95,000 under a contract with D. B. Milliken Co. The cameras are to be used at Point Mugu, Calif. Similar Milliken cameras mounted in the space capsule named Friendship Seven were used to record the first U.S. Earth-orbiting flight.

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documentary coverage in black-and-white or color are offered by Gordon Enterprises, 5362 N. Cahuenga Blvd., North Hollywood, Calif., in conjunction with Video Tape Enterprises, Inc. Air-conditioned vans contain equipment for all types of recording including underwater and airborne applications, according to the announcement. Editing as well as optical effects can be accomplished at the time of the recording.

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dustry liaison; and research and development. Research Director is Skipwith W. Athey. Richard H. Baker is Technical Director.

Sony Corp. of Japan has been licensed by Paramount Pictures, Inc., to manufacture and use the Chromatron, a color television tube invented by Dr. Ernest O. Lawrence. The tube uses a single beam of electrons to activate tiny dots of color on the tube face. Litton Industries Inc. holds the only American license for the tube and its use is limited to military and industrial TV systems. Philips Lamp Works of Holland also hold a license to use the tube, except in North America.

The Arc Carbon Products Department of National Carbon Company, Division of Union Carbide Corp., has been made a separate marketing group, according to a recent announcement. Head of the new group is J. W. Cosby.

Mercury Photo Corp., Harrison, N.J. has announced the installation of two new Kodachrome processors with two more scheduled for delivery later this year. The machines, designed for processing at speeds up to 4500 ft/hr, were installed by Filmlinc Corp., Milford, Conn.

William Szabo has been appointed Manager of Construction and Contracts of Reevesound Co., Long Island City, N.Y., a subsidiary of Reeves Soundcraft Corp., Danbury, Conn. Announcement was made by Boyce Nemecek, President of Reevesound. In his new post Mr. Szabo will be responsible for the administration and technical supervision of contract operations, including design and construction of motion picture studios and laboratories. He will also supervise the design, installation and operation of motion-picture systems for expositions and trade fairs.

Roy C. Willard has been appointed Chief Engineer of Television of the University of Detroit. A native of Cleveland, he is a charter member of the Cleveland chapter of the Audio Engineering Society. He has studied at the American Television Institute.

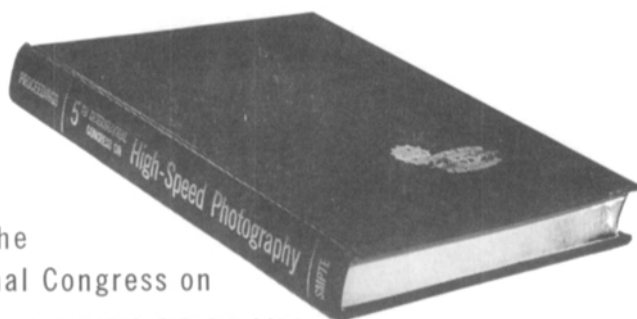
Bob Gaskins has been appointed head of the newly formed Fotrion Division of Traid Corp., 17136 Ventura Blvd., Encino, Calif. The new division was formed for the production and marketing of newly designed amateur cameras. Prior to his present appointment Mr. Gaskins had been associated with Lawrence Photo Supply, Inc. and Lawrence Camera Shops since 1936.

George Gill, Manager of Television and Photographic Lighting Sales for Century Lighting Inc., 521 W. 43 St., New York, has been transferred to the main office, according to a recent announcement from the company. The announcement stated that Mr. Gill has participated in the planning of studio production facilities for network and regional studios of every size and type of operation.

Henry R. Owen has been appointed by General Electric's Technical Products Operation as District Manager of a new office at 420 Lexington Ave., New York for G-E closed-circuit TV sales in the Northeastern and Atlantic Seaboard areas. He will be responsible for sales to commercial, industrial, educational and military customers.

Albert K. Chapman has been elected Chairman of the Board of Directors of Eastman Kodak Co. to succeed Thomas J. Hargrave who died February 21, 1962. He will continue to serve as Chairman of the Executive Committee. Dr. Chapman has been with the company since 1919.

an *SMPTE*
publication . . .



Proceedings of the
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