Greer, Beckman and Whitley Inc., San Carlos, Calif.; "Presentation of an Underwater Explosion Film" by S. J. Jacobs, Naval Ordnance Laboratory, White Oak, Silver Spring, Md.; "High-Speed Photographic Recording of Strong Shocks in Opaque Solids" by M. Sultanoff, Aberdeen Proving Ground, Md.; and "Photography of Burning Strands of a Solid Propellant" by R. B. Bowersox, Jet Propulsion Laboratory, Pasadena, Calif.

An item of interest relevant to the Congress concerns the formation in England of a Committee on High-Speed Techniques Using Optics. Secretary of the Committee is Kenneth R. Coleman, Building D 3, Atomic Weapons Research Establishment, Aldermaston, Berks. Meetings are held quarterly. Four members of the Committee plan to attend the 4th Congress.

Education, Industry News

A total of 11,742 students was graduated from 202 technical institutes in the United States in 1956 in engineering-related curricula. Total enrollment in engineering subjects was 32,498 full-time students and 25,124 part-time. These figures are contained in a report on a survey of technical institutes conducted by the American Society for Engineering Education and the U.S. Office of Education. The term "technical institutes" is defined in the report as "institutions of higher education with programs of less than four years' duration." This report is the first of an annual series planned "to show developments and trends with important manpower implications."

Eight scientific motion pictures produced by the Argonne National Laboratory, Lemont, Ill., are among the 45 films accepted by the U.S. Atomic Energy Commission and the Office for International Conference for presentation at the Second International Conference on the Peaceful Uses of Atomic Energy, Geneva, Switzerland, Sept. 1–13. Titles of the films are: Fast Reactor Program; Experimental Boiling Water Reactor; Experimental Breeder Reactor I Core Disassembly After Meltdown; Experimental Breeder Reactor II Fuel Cycle Development; Experimental Breeder Reactor I Mark III Core; Zero Power Reactor III; Argonaut; and Ionizing Radiation in Man. The films, which were written and produced by George W. Lindholm, Jr., will be prepared in English, French, Spanish and Russian. After the conference they will be available in these languages commercially or through a loan arrangement.

Two experimental films, *New York, New York*, by Francis Thompson, and *A Day in Town*, which was made in Sweden by B. Hulten, have been chosen to receive the Award of Exceptional Merit bestowed by the Creative Film Foundation, 35 Morton St., New York 14, for creative achievement in avant-garde productions. A Special Citation has been awarded to the film *Round and Square*, a joint production of a student film group at Wayne State University under the faculty sponsorship of William Rudy. A variety of experimental techniques and styles are considered in selecting prize-winning films. *New York, New York* uses distorting lenses and multiple images. The Swedish film is a comedy employing some of the techniques of Mack Sennet comedies. The Foundation also presents an Award of Distinction. Films receiving this award are *Who, What, How* by A. Vanderbeek of New York; *An Diesen Abenden* by Herbert Vesely of Germany, and *The Big O* by Carmen D'Avino of New York.

The honorary degree of Master of Photography has been awarded by the Professional Photographers of America to John I. Crabtree, retired Kodak research scientist (*Journal* p. 78, Feb. 1957) and to Wesley T. Hanson, Jr., head of the Color Photography Div., Kodak Research Laboratories.

Described as "one of the leading authorities of the world on photographic chemistry," the citation to Mr. Crabtree stated that "many of the advances in general photographic, medical, x-ray and motion-picture film-processing techniques had their beginning in the research undertaken and supervised by this distinguished scientist." Dr. Hanson's award is in recognition of his research work over a 20-year period in problems of color photography. "The results of this work," the citation states, "have had important applications in all varieties of color photographic products for amateur, professional and commercial use, both still pictures and motion pictures." Both men are Fellows of this Society.

A paper on "Rates of Solution of Silver Halide Emulsion Crystals" by Waldemar Vanselow and T. Howard James, of Eastman Kodak Co. was presented at the 32d National Colloid Symposium in Urbana, Ill., June 19. The paper described research leading toward improved photographic developers, including those for fine-grain photographic materials. The paper is scheduled for early publication in the *Journal of Physical Chemistry*.

Robert W. Wagner, Director of Motion-Picture Production at Ohio State University since 1946, has been appointed head of the Cinema Department, Univ. of Southern Calif. Dr. Wagner succeeds Robert O. Hall who has been appointed Program Associate with the Educational Radio and Television Center at Ann Arbor, Mich. Prior to his appointment at Ohio State Univ., Dr. Wagner had been film writer and director for the Office of War Information and motion-picture producer with the Office of Coordination of Inter-American Affairs. He also served as Chief of Information with the Ohio Department of Public Welfare. In 1951 he was awarded the Encyclopedia Brittanica Film Fellowship.

George L. Oakley, most recently Manager of Bell & Howell's Professional Equipment Div., has been appointed Director of Audio-Visual and Professional Sales for Bell & Howell under its policy of increased emphasis on the audio-visual field.

engineering activities

This report is a brief résumé of major topics discussed and projects reviewed during meetings of the Engineering Committees at the Society's 83rd Convention.

Color

Activities of Color Subcommittees were reviewed. Two Subcommittees, Color Sensitometry and Color Cinematography, were dissolved, following a vote of appreciation for excellent reports on *Principles of Color Sensitometry* and *Elements of Color in Professional Motion Pictures*, respectively. These publications were received with interest by the industry and are now widely accepted as standard works.

A proposed American Standard which would supplement PH2.1-1952 by specifying spectral conditions suitable for determining the sensitometric characteristics of photographic sound record on three-component subtractive color film was discussed. Prior to the meeting a letter ballot had been circulated to the Committee members. The results were inconclusive and the proposal was referred back to the Subcommittee on Densitometry of Soundtracks of which Harry P. Brueggemann is Chairman.

Appointment of four new members was requested by the Committee Chairman A. M. Gundelfinger. The proposed appointees have excellent backgrounds in color television which the Chairman felt would be an asset to the Committee in connection with the television requirements peculiar to the Color Committee's activity. The specific scope of activity of the Committee was discussed. In response to a question about possible overlap in the work of the Television and Color Committees, a Subcommittee was appointed under the chairmanship of S. Eric Howse to investigate the areas of activity and to recommend, if necessary, a clarification or revision of the scope of activity of the Color Committee.

Film Dimensions Committee

One of the main topics of discussion concerned a worksheet submitted to members of ISO/TC Working Group A. It was brought out in discussion that the dimensions were the major source of difficulty since the English system is the fundamental standard in the United States, whereas the metric system is the basis of European standardization. The conversion from inches to millimeters results in some slight discrepancies. It was also noted that this worksheet differed from the one submitted at the last meeting of the Committee in that all of the information required in writing a standard, with the exception of notes, was included. The question was raised if it was the intent of the Committee to process all film dimension standards according to the present worksheet. It was agreed that 1953 standards PH22.1, PH22.5, PH22.12 and PH.93