

section reports



The Atlanta Section met on March 14 at Eastman Kodak Processing Laboratory in Chamblee, Ga., with an attendance of 43.

The meeting was prefaced by an announcement of the 89th Semi-annual SMPTE Convention and Equipment Exhibit. Following the announcement, an eight-minute color-slide talk was presented by Wesley R. Sandell, Chairman of the Atlanta Section. Mr. Sandell's discussion described the SMPTE book, "Color Techniques in Film Processing."

Guest speaker Allan Sorem of Eastman

Kodak Research Laboratories, Rochester, N.Y., gave a very interesting talk entitled, "The Potential Role of Photography in Outer Space," in which he outlined some of the photographic problems peculiar to aerial photography which are especially important in designing systems to record fine detail, in small scale, of the ground at high altitudes.

To illustrate the progress that has been achieved in aerial photography, several slides were shown of pictures taken from kites, balloons, and even carrier pigeons, in man's earlier attempts to photograph the earth from increasingly higher altitudes.—John C. Horne, *Secretary-Treasurer*, 404 Page Ave., N.E., Atlanta, Ga.

The Boston Section met on February 9 at the Studios of WBZ-TV with an attendance of 29. Guest speakers were Raymond G. Hennessey of Fairchild Camera

& Instrument Corp. and Thomas Hope of Eastman Kodak Co.

Both Messrs. Hope and Hennessey discussed the background of the 8mm sound field. Following their formal presentations, the speakers were joined by Charles Wyckoff of Edgerton, Germeshausen & Grier, Inc., for a question-and-answer period. The 8mm sound equipment of both Fairchild and Kodak were available for the audience to examine.

The meeting was extremely interesting and well presented. The audience, though small, was very active. Unfortunately, the Boston area had experienced its worst snow storm in many years the day before the meeting which made driving and parking conditions most difficult. The Boston Section is indebted to the two speakers for appearing despite the bad weather conditions and resulting transportation delays.

Messrs. Hope and Hennessey were guests of the Boston Section at dinner prior to the meeting.—Lester Bernd, *Secretary-Treasurer*, Information Technology Labs., 10 Maguire Rd., Lexington, Mass.

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Rodger J. Ross of the Canadian Broadcasting Corporation was guest speaker at a meeting of the Boston Section on March 8. His subject was "Exposure Control in TV Film Recording."

Mr. Ross presented an interesting and educational discussion, very adeptly applying the same theory to both TV recording and direct photography, thereby capturing the interests of both motion-picture cameramen and TV personnel.

Once again the Section was plagued by inclement weather, with extreme ice and snow conditions developing late in the afternoon, and reducing the attendance rate.

Mr. Ross was the guest of the Boston Section at dinner prior to the meeting.—Lester E. Bernd, *Secretary-Treasurer*, Information Technology Labs., 10 Maguire Rd., Lexington, Mass.

The Canadian Section met on January 26th at Cinesound, Ltd., in Toronto, with an attendance of 42. Guest speakers were Ivor Lomas of Crawley Films, Ltd., who discussed "Technical Problems of a 39-Week TV Series," and F. R. Crawley of Crawley Films, Ltd., whose subject was "Organization, Management and Selling of a Major Production."

The theme of the evening's program was established by the opening film which was one of the half-hour "R.C.M.P." series produced for television by Crawley Films, Ltd., Ottawa.

Mr. Lomas discussed and illustrated some of the many control problems associated with the endeavor, ranging from high-contrast snow scenes to static caused by low winter humidity.

Canadian Kodak hosted the social period that followed Mr. Lomas' presentation. Coffee and doughnuts were served in the Cinesound cafeteria.

A highly informative and entertaining address by Mr. Crawley completed the program. The speaker pointed out that a Canadian production of this magnitude must be presold to a certain extent in Canadian, British and U. S. markets to



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be economically feasible. He also was firm in the belief that lessons now learned would permit a substantial cost saving on future series of this type, without reducing production quality.

Audience response to both speakers confirmed the evening as a highlight of the winter program.

A pre-meeting dinner with the speakers was enjoyed before the open fireplace at Les Cavaliers Restaurant.—R. B. Mackenzie, *Program Chairman*, c/o Mackenzie Equipment Co., 433 Jarvis St., Toronto.

The Canadian Section met on March 29 at Meridian Films Ltd. in Toronto with an attendance of 40. Guest speakers were

J. L. Bateman of Canadian Broadcasting Corp., who discussed "TV Special Events," and F. T. Stinson of Adfilms Ltd., whose subject was the "1960 Venice International Advertising Film Festival Winners."

Live TV coverage of a fleet review from a warship on Lake Ontario, to Royal Tour pictures of Queen Elizabeth II from a moving car in Ottawa, were only two of the interesting assignments described by Mr. Bateman, who used slides to illustrate how CBC remote-broadcast crews arrange for lighting, microphone, camera and microwave equipment in diverse locations.

Following Mr. Bateman's presentation, there was a brief intermission during which coffee and doughnuts were served through

the courtesy of Bell & Howell Canada Ltd.

Mr. Stinson's discussion included in his 30-min film excellent examples of commercials produced in many European countries, plus several from the United Kingdom, one from Israel and two from the United States. Interest in these examples was very keen since, in general, the production techniques and end results were quite different from the usual North American television or theatrical commercial. Most of the films featured a "soft sell" approach, which hurtled the language barrier with extensive use of unusual sight and sound impact and a minimum of human voice.

Prior to the meeting, the speakers met with members of the Section for dinner at the new Four Seasons Hotel.—R. B. Mackenzie, *Program Chairman*, c/o Mackenzie Equipment Co., 433 Jarvis St., Toronto.

The Chicago Section met on February 28 at the Prudential Building with an attendance of 50. Fred Emens, Manager, Fastax Division of Wollensak Optical Co., was the guest speaker. His subject was "Applications and Techniques of High-Speed Photography."

Following a coffee break, Mr. Emens delivered a second paper which described the equipment necessary for taking high-speed pictures. In connection with this paper, several examples of high-speed equipment were demonstrated and a number of high-speed film samples were shown.

Earlier in the evening, a meeting of the Chicago Section Board of Managers was held, followed by dinner.—Philip E. Smith, *Secretary-Treasurer*, Kodak Processing Lab., 1712 Prairie Ave., Chicago.

A meeting of the Chicago Section was held in conjunction with the Behrend Sound Symposium on March 30 at the St. Clair Hotel. The meeting, which was attended by 100 persons, was opened with the showing of a motion-picture short entitled *Movie Fantasy*, produced by the Canadian National Film Board.

The first paper was given by Ralph Sogge, Director of Customer Services, Magnasync Corp., on the subject of "Recorder Curves and Head Characteristics." Mr. Sogge explained the nature of frequency response from recording heads and the expected characteristic curves of magnetic recording and playback heads. Slides were shown which illustrated head construction, various characteristic curves, and the effects of head wear, signal-to-noise ratio and bias measurements as an indication of possible distortion.

Dr. Hans Wohlrab of Bell & Howell Co. showed a number of examples of variable area and density soundtracks.

A final paper was delivered by Art Cunningham, Chief Sound Development Engineer for the George W. Colburn Laboratory on "Optical Track Analysis." Mr. Cunningham explained the methods of production of optical tracks and their limitations. He illustrated the effects of various circuits, and the optimum positive and negative track densities. Mention was made of difficulties in processing and the effect of projection conditions.



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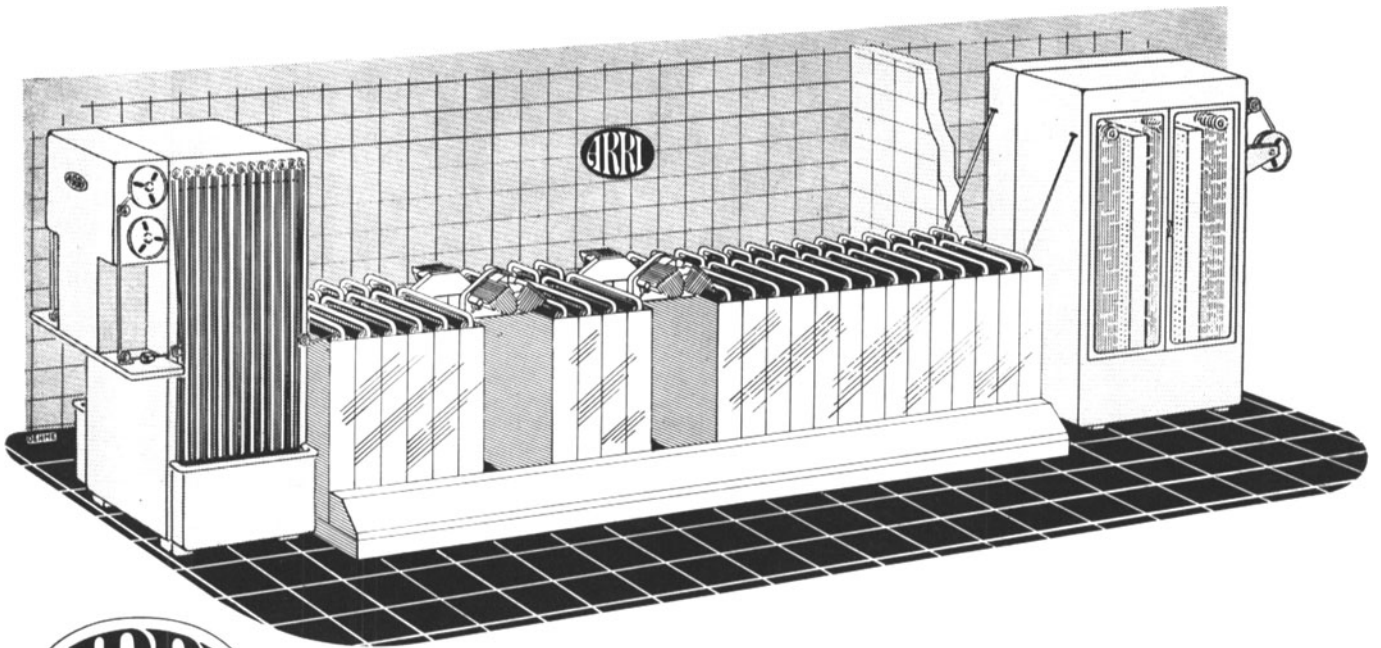


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The meeting was closed following the serving of coffee.—Philip E. Smith, *Secretary-Treasurer*, Kodak Processing Lab., 1712 Prairie Ave., Chicago.

The Dallas-Fort Worth Section met on March 28 at the Kodak Processing Laboratory in Dallas with an attendance of 51. Guest speakers were M. D. McCarty of Socony Mobile Oil Co. and E. J. Pattist of Eastman Kodak Co.

Mr. McCarty reviewed several papers and reports on new uses of 8mm film, and discussed the quality of sound reproduction via magnetic striping on 8mm film.

Mr. Pattist gave a nontechnical talk on Kodachrome Type II Film. Samples of regular and Type II Kodachrome film were projected. His talk was followed by a coffee period and a tour of the Kodachrome and Kodak Ektachrome processing facilities of the Kodak Processing Lab.—Richard T. Blair, *Secretary-Treasurer*, 1924 Hillburn Dr., Dallas.

The Hollywood Section met on February 21 at Paramount Studios with an attendance of 600. Guest speakers were Y. Frank Freeman, Paramount Pictures; Jerry Lewis, Actor-Producer; Bruce Denny, Paramount Sound Studio; and W. Wallace Kelley, A.S.C.

Mr. Freeman opened the meeting with remarks relative to the increasing competition in the motion picture industry and through this the development of new techniques and more efficient production methods.

Mr. Lewis gave an extremely interesting review of the problems encountered on the unusual set design of his production *Ladies Man*. This covered the various phases involved, such as photography, lighting, sound, etc. At the conclusion of Mr. Lewis' discourse, Mr. Denny placed himself at the disposal of those at the meeting who wished to see demonstrations of the methods utilized for multiple microphone placement, mixing and closed-circuit television camera direction used to satisfy Mr. Lewis' unique requirements for sound recording.—John Kiel, *Secretary-Treasurer*, c/o Producers Service Co., 820 South Mariposa St., Burbank, Calif.

At a combined meeting of the **Hollywood Section** and the Audio Engineering Society on March 21, the guest speaker was Karl Linnes, Research Group Supervisor, Advanced Project Group, Jet Propulsion Laboratory. Two hundred twenty persons attended the meeting at the University of Southern California.

In his discussion of "Applications and Limitations of Deep Space TV," Mr. Linnes covered what has already been accomplished and what is currently being attempted in this field. He talked about certain special problems of television equipment mounted in space aircraft, including size and weight limitations, as well as environmental conditions to which such a system is subjected. Additionally, he gave a unique comparison of the requirements of deep space television to that of standard telecasting equipment.

An interesting feature of the meeting was the presentation of a motion picture describing the activity of the Jet Propul-

sion Lab in the "Echo" project.—John Kiel, *Secretary-Treasurer*, Photo-Sonics, Inc., 820 South Mariposa St., Burbank, Calif.

The Hollywood Section met on April 18 at the 20th Century-Fox Studio Lot in Beverly Hills with an attendance of 307. Guest speakers and their subjects were: Gordon Sawyer, Samuel Goldwyn Studios, "Selection of Outstanding Achievements by the Academy Technical and Scientific Awards Committee;" Carl Hague, Consolidated Film Labs., "Automatic Developer Replenisher System;" William L. Widmayer, Columbia Pictures, "Application of a Flicker Indicating Device;" Petro Vlahos, Systems Development Corp., "Technical Aspects of a Flicker Indicating Device;" Arthur Holcomb, Valley-Maico Hearing Service, "Early Development of a Flicker Indicating Device;" and Frank O'Connor, 20th Century-Fox Corp., "Miniature Flak Gun and Ammunition."

De J. White of Magnasync Corp., introduced the speakers.

The subjects were presented in an interesting manner. Mr. O'Connor, key effects man for 20th Century-Fox's Mechanical Effects Dept., demonstrated the miniature flak gun. He has been associated with 20th Century for twenty-five years.

The Academy Award cartoon *Munro* was not shown because representatives of Rembrandt Films of New York did not have a print with them. However, the runner-up, *High Note*, by Warner Bros., was shown and very well received.

A pre-meeting dinner, held at Beef-eaters Restaurant was attended by thirty-one persons.—John Kiel, *Secretary-Treasurer*, Photo-Sonics, Inc., 820 South Mariposa St., Burbank, Calif.

The Nashville Section met on March 18 at the Studio of the Tennessee Game and Fish Commission with an attendance of 23. Guest speaker was Bill Hedden, Vice-President of the Calvin Co., Kansas City, Missouri.

Mr. Hedden discussed color film stocks, both original and print materials, and the various methods of making release prints. Demonstration prints were run, showing both reversal and positive release prints, and also showing examples of correction of exposure and color balance on a "before and after" basis. A reel of the newly announced Type 2 Kodachrome was demonstrated as well as some 8mm reduction prints from both the old and new materials. The speaker invited questions and discussions during his program.

Coffee and doughnuts were served through the courtesy of the Tennessee Game and Fish Commission, following Mr. Hedden's presentation.

A film record of the SMPTE Los Angeles Convention held last spring was shown to the group. The film was prepared by three members of the Section who attended the meeting.

At the close of the meeting those attending had the opportunity to examine specimens of Tennessee wildlife kept outside the studio. These animals are used as "actors" in some of the films prepared by the Commission.—H. R. Briscoe, Jr..

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The New York Section met on March 8 at the World Affairs Center Auditorium with an attendance of 36. M. H. Mesner of the Astro-Electronics Division, Radio Corporation of America, was the guest speaker. His subject was "Space Borne TV Cameras."

Mr. Mesner described the TIROS Satellite (Television and Infrared Observation Satellite) and presented a half-scale model which was examined by the members. His paper consisted of a description of the unit and the problems encountered during the designing stages. It was neces-

sary to ascertain how mechanical, optical and electronic equipment would operate in vacuum. Specifically, they were concerned with effects of radiation, lubrication and sublimation, as well as the boiling and leakage of liquids in some electrical components. Electrical insulators were also of concern. The reliability of control and power equipment was of major interest. Mr. Mesner mentioned that the scanning frame rate was reduced from 1/30 sec to 2 sec, which reduces the bandwidth but allows for power reduction.

A 1 1/2-millisecond shutter reduced image "smear" which was due to the rotation of the satellite.

Mr. Mesner's talk was extremely well documented by black-and-white and color

slides taken from TIROS depicting meteorological data gathered around the world.—William H. Metzger, Secretary-Treasurer, c/o AnSCO, 405 Lexington Ave., New York.

The New York Section met on April 12 at the World Affairs Center Auditorium with an attendance of 65. Guest speaker was Hubert J. Schlafly, Vice-President, TelePrompTer Corp. His subject was "Random Access to Audio-Visual Information."

Mr. Schlafly described and demonstrated a series of slide projectors and a magnetic-tape playback unit which was designed for group communication. The three slide projectors designated RA 60, RA 100 and RA 500 accommodated 60 3 1/4 x 4 1/4, 100 2 x 2 and 500 2 x 2 slides respectively. The magnetic-tape playback unit was capable of programming 100 separate tracks.

Remote control which permitted random access to any slide or track was accomplished via a digital selector control and motor module which fit in the hand of the operator; hence, the designation RA. By setting the digital counter and pressing the activating button any slide could be called up immediately. In the case of the RA 500 no more than 8.1 sec was required to call up any slide.

The motor module is based on the Wheatstone Bridge principle plus a series of relays. The units display an accuracy of one part in 10,000.

In the case of the projectors, slides are arranged in drums positioned horizontally. The RA 500 consists of five drums, each containing 100 slides in stacked arrangement.

Mr. Schlafly pointed out that it is possible to have the same Wheatstone Bridge activate a slide projector and tape playback unit simultaneously so as to produce sound and picture synchronously.

Ideal use can be made of the above equipment by military installations, educational institutions, sales groups and various other organizations. A vast amount of information can be programmed prior to use, and random access to any and all of it is possible at the touch of a button.—William H. Metzger, Secretary-Treasurer, AnSCO, 405 Lexington Ave., New York.

Sixty-eight members of the Rochester Section gathered at the Informational Films Service Studios of the Eastman Kodak Company for a trip through a typical 16mm commercial film production plant.

The members were welcomed by E. B. Hall, Manager of Informational Films Service, who explained the purpose of such a unit in the Eastman Kodak Company.

John Mills Jr. took the group through the various stages of script preparation, staging, lighting, and shooting of the films. His presentation was given from the writer-producer's view.

A. L. Reber conducted the members through the sound recording facilities, explaining equalization (dialogue), re-recording techniques, etc., and at the conclusion recapped the entire presentation.

Many questions were asked relative to the construction of the plant and its fa-



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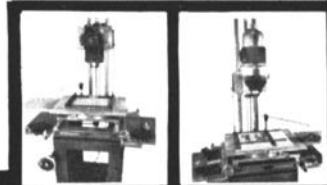
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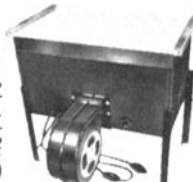
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cilities. The evening was concluded with coffee and doughnuts. All members present expressed their appreciation for this informative meeting.—D. L. Conway, *Secretary-Treasurer*, Maple Hill Farm, R.D.2, West Monroe, N.Y.

The Rochester Section, meeting at the Dryden Theatre on March 30 with an attendance of 31, was given a rare treat in the unusual and very interesting presentation of "The Motion Picture as a Tool in Medical Communication," by Warren Sturgis, President of Sturgis-Grant Productions, Inc., New York City.

Mr. Sturgis traced the history of early medical films and the aversion of medical colleges to the use of them as teaching aids. Their "premium on dullness" and lack of dramatic values, coupled with traditional professors who saw no use in them, resulted in a slow adoption of their use, he pointed out.

Today, however, the speaker observed that they are being widely used by the medical profession for purposes of research, records, demonstration for teaching, clinical, orientation, motivation, and (by pharmaceutical houses) commerce.

Mr. Sturgis demonstrated the various types of films now in use with selected cuts from commercial productions. These were accompanied by explanations covering the reasons for, and the making of, the various types of films from which they were taken.

The speaker's thorough coverage of his subject included present day necessary qualifications for those thinking of entering this phase of motion-picture production, pricing, customer, and audience approach, etc.

The program is highly recommended to other SMPTE Sections as an interesting and unusual presentation.—D. Lisle Conway, *Secretary-Treasurer*, Maple Hill Farm, R.D. 2, West Monroe, N.Y.

The San Francisco Section met on February 13 for a combination dinner-lecture meeting dealing with the history of the Mt. Sutro transmitter site. Guest speaker was Harry Jacobs, Chief Engineer, KGO-TV, San Francisco.

The speaker discussed the Mt. Sutro location. The original problems involved in the purchase of the six-acre section of land, which is approximately in the center of San Francisco; the problems encountered in converting the old Sutro mansion and the erection of a 500-ft tower were illustrated by a 16mm film.

After Mr. Jacob's talk the meeting moved to the transmitter site which is now the home of KGO-TV, KPIX, KBAY-FM and KECO-FM. Tom Ely, Chief Engineer for KPIX, acted as co-host at the site and conducted our tour of the KPIX installation.—Clifton R. Skinner, *Secretary-Treasurer*, c/o Skinner, Hirsch & Kaye, 336 Funston Ave., San Francisco.

On March 14, fifteen members of the San Francisco Section met at Schroeder's Cafe for dinner. Later, the group met at W. A. Palmer Co., where other members joined it bringing the total to 36.

An extremely interesting talk was given by Stewart A. Macondray of the W. A.

Palmer Co. Mr. Macondray explained the problems of developing machines in general, and described Palmer's new Hills black-and-white reversal machine, explaining the unusual features such as: (1) high temperature of all solutions; (2) continuous replenishing of all solutions; (3) high output for its small amount of solution; and (4) unusual threading.

Following Mr. Macondray's talk, the group moved to the color processing laboratory of Barry Brose. Mr. Brose explained in detail the differences in their elaborate color machines. Also, he discussed developing machines. A question-and-answer period was held after the formal presentation.

In spite of heavy rain, those who attended this meeting seemed very pleased with the discussions.—Clifton R. Skinner, *Secretary-Treasurer*, Skinner, Hirsch & Kaye, 336 Funston Ave., San Francisco.

About 150 members and guests attended the February 9 meeting of the Washington Section at the Academia of the Motion Picture Association of America. Continuing the Section's theme, "Communications—How Can Our Efforts Be Better?," the program consisted of a business meeting and premiere showings of two motion pictures.

The first of these motion pictures, "Brass and Percussion Instruments," featured some of the finest brass and percussion instrument recording ever put on a soundtrack. It was sponsored by the Society of Artist Musicians of Brass and Percussion as a demonstration piece to be used for instruction purposes in music clinics and workshops. It was filmed and recorded in Norwood Studios with prints made by Capital Film Laboratories, both of which are very active in Section affairs.

Captain Dale Harpham, Assistant Director, U.S. Marine Band, who conducted the musicians in the motion picture and Bramwell Smith, the featured trumpet and postillion horn soloist were at the meeting and were introduced to the group. Captain Harpham was instrumental in furnishing the Marine Corps musicians which made the October meeting such a success. Both gentlemen discussed the purpose, production and distribution details of the motion picture with the members and guests present.

The second motion picture shown was Paramount's delightful, sophisticated production featuring Shirley McLaine and Dean Martin.

Refreshments were served following the screenings. The Section's thanks were extended to Robert Crisp of the Motion Picture Association, for his fine work on arrangements.—David E. Strom, *Secretary-Treasurer*, 1002 By-Pass Rd., Williamsburg, Va.

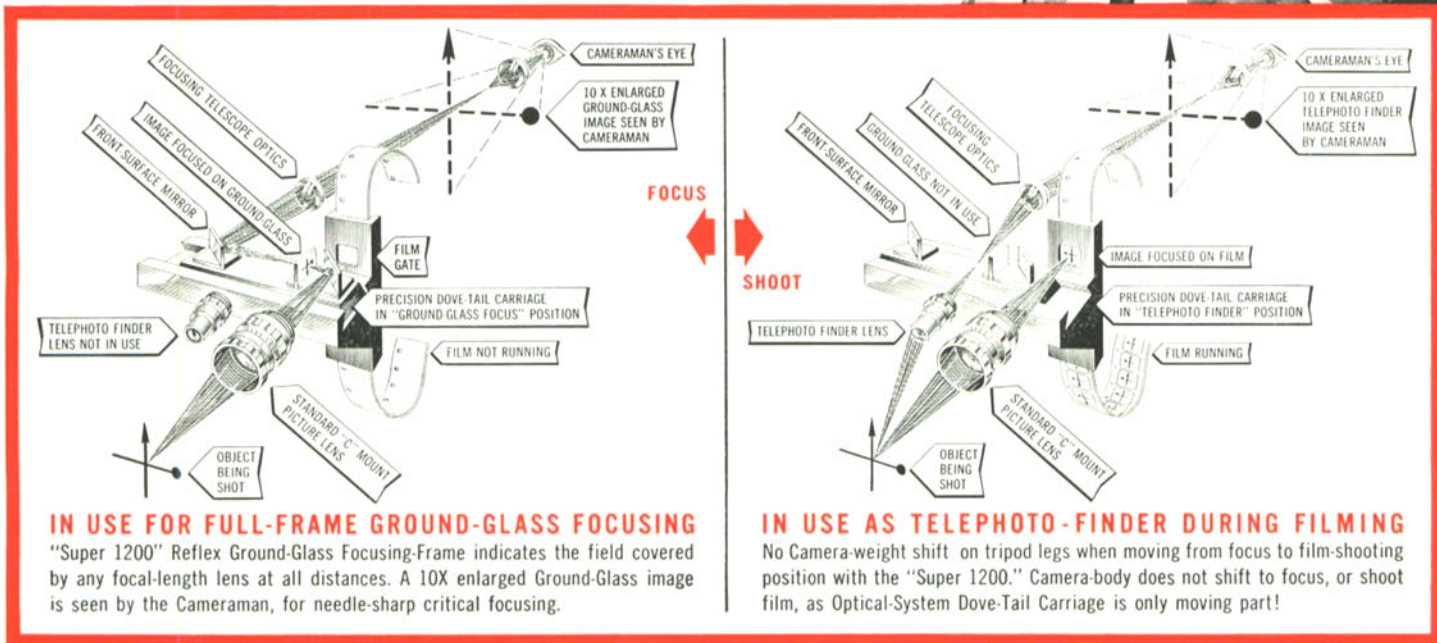
The Washington Section met on March 24 at the New Department of State Auditorium with an attendance of 50. Guest speakers were Charles B. Shinkwin, Chief of Division of Buildings Management, Department of State; and Anthony Guarco, Deputy Director, Motion Picture Service, United States Information Agency.

Mr. Shinkwin discussed "Design and Utilization of the Auditorium and In-

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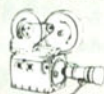
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ternational Conference Facilities." Mr. Guarco's subject was "Award Winning USIA Pictures."

The meeting was opened with the showing of a motion picture of President Kennedy's press conference of the previous evening, which was held in the room in which the Section meeting was taking place.

In his talk, Mr. Shinkwin pointed out the unusual features of the State Department Auditorium, among which are its use as part of the Department's International Conference facilities. Not only can the auditorium accommodate press conferences, but it also has an unusual complement of audio and video facilities including those for simultaneous translation, for motion-picture and still photography and still picture projection. These facilities were demonstrated and Mr. Shinkwin took the group on a personally conducted tour of the projection room and the main international conference room.

The projection room is equipped with remote lighting control, arc slide projector, Eastman Model 25 16mm Arc Projector, and a new version of the DeVry 35mm Projector manufactured by Paromel Electronics, Inc. These feature preview attachments and will run either forward or reverse.

Mr. Shinkwin won many friends because of his thoughtfulness and interest in responding to questions and demonstrating facilities. A special word of thanks is due G. H. Sorenson for his assistance with this part of the meeting.

The second part of the meeting began at 8:00 p.m. when the Section joined

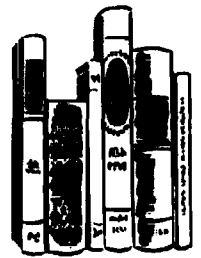
members of the Washington Film Council for a showing of six award-winning USIA motion pictures. These films were shown on the same equipment that had just been explained and demonstrated by Mr. Shinkwin. Turner B. Shelton, Director of the Motion Picture Service of the USIA, extended the invitation to the Washington Section to attend this showing.

Jack Evans, Special Assistant to Mr. Shelton, introduced Chairman Youngs, the Washington Section Board of Managers and the officers of the Washington Film Council, following the showing. He then presented Mr. Guarco, who gave the background and explained the role of these films in interpreting the United States abroad.

Both domestic and foreign productions were shown. The scope of subject matter and motion-picture techniques presented, gave the audience a clearer picture of the efforts of the Information Service. The significance of these productions was enhanced in the context of the fine new auditorium and its international atmosphere.

The opportunity to have these new facilities demonstrated to the Section may be attributed to the foresight of Chairman William E. Youngs, who is a member of the Board of Directors of the Washington Film Council. Mr. Young serves in an advisory capacity at the Auditorium.

An informal poll of the Section membership after the meeting indicated that it was very well received.—David E. Strom, *Secretary-Treasurer*, 1002 By-Pass Rd., Williamsburg, Va.



books reviewed

Kurzzeitphotographie: Bericht über den IV. Internationalen Kongress für Kurzzeitphotographie und Hochfrequenzkinematographie (Proceedings of the Fourth International Congress on High-Speed Photography)

Edited by H. Schardin and O. Helwich. Published (1959) by Verlag Dr. Othmar Helwich, Hoffmannstrasse 59, Darmstadt, Germany. 7 by 10 in., 340 pp., 600 illus. DM 92. 7/10/-. \$22.00.

The Proceedings of the Fourth International Congress on High-Speed Photography have been published through the diligent editorship of Dr. Othmar Helwich of Darmstadt. The 340-page volume gives a high-quality presentation of the 65 papers of this symposium which was held at Cologne during the period 22-27 September, 1958.

Method of presentation is by the language of the original paper, with summaries in two other languages. Value to the English-speaking reader without personal proficiency or access to translation services for German and French may be measured by the fact that 23 of the papers are presented in English. Thus, when the factor of excellent reproductions of very fine examples of high-speed photographic recording in the foreign-language papers is added to the considerable numbers of papers appearing in English, it becomes evident that this volume will become a most useful addition to the library of high-speed photographers throughout the United States.


Theme of the volume is set by the initial invited paper by Professor Hubert Schardin describing the major early contributions to this field by Carl Cranz, a ballistician whose use of high-speed photography in the study of ballistics has left its mark on virtually every other field now employing this medium. It was especially appropriate that this review and tribute to Cranz should have been presented by his colleague, Schardin, whose own work has further developed and refined the efforts of Cranz.

Especially interesting work accompanied by outstanding illustrations included K. R. Coleman, whose presentation included a photograph of the shock heating of deuterium made by J. K. Wright; W. H. Allan and D. B. Clark on a pinhole camera for aeroballistic techniques; H. F. Edgerton on flashes of about 10 msec duration (work that was further reported on at the Fifth Congress and published in the March 1961 issue of the *SMPTE Journal*); D. P. C.

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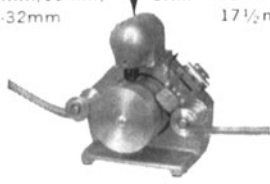
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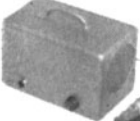


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