

90th Convention — Lake Placid, New York

By C. LOREN GRAHAM and ERIC C. JOHNSON



Left to right: C. Loren Graham, Eastman Kodak Co., Program Chairman; Eric C. Johnson, Eastman Kodak Co., Local Arrangements Chairman; Harry Teitelbaum, Hollywood Film Co., Convention Vice-President; Glenn E. Matthews, Eastman Kodak Co., Editorial Vice-President; G. Carleton Hunt, General Film Labs, Treasurer.

Once again, the Society met in the Lake Placid Club in upper New York State. The Society has had four meetings in this area, dating back to the late 1920's,

and as before it proved to be an ideal location for our type of technical meeting. The Club is virtually turned over to the Society; thus for a week our members are

thrown together for discussion—both technical and social—without distraction.

The Local Arrangements Committee, directed by Convention Vice-President Harry Teitelbaum and under the leadership of Eric Johnson, made the maximum use of both the hospitality and facilities of the Lake Placid Club. The result was a smooth running and well coordinated convention with opportunity for both serious discussion and pleasant social contact. Even in this well integrated location, the planning and execution of a national technical convention requires an alert awareness of many needs and a vigorous and conscientious attention to detail. Mr. Johnson and several of his committeemen, including Irving Ewig, Chairman of Hotel Arrangements, made frequent trips to Lake Placid to make arrangements with the Club. But since Lake Placid is not near a large city, the usual convention planning had to be altered and great dependence was placed on the cooperation of all the chairmen. Arthur Miller, DuArt Laboratories, as Vice-Chairman of Local Arrangements, provided excellent coordination of the activities of those involved from the New York City area. Several pre-convention get-togethers in New York assured all committeemen that their convention preparations were properly integrated with those of the staff at Society headquarters. The cooperation of local arrangements and the technical sessions was assured by constant communication with Loren Graham, the Program Chairman.

The close integration of the Lake Placid Club permitted several of the arrangements committees to be combined so that in many cases we found Arrangements Chairmen doing double duty. In addition, the efforts of John J. Kowalak and William H. Metzger, Administrative Assistants; Robert Burns, Membership; and Standish Holmes, Publicity, contributed greatly to the success and efficiency of the convention.

Projection and Public Address

The projection and sound equipment of the Lake Placid Club Agora Theater were ideally suited to the presentation of technical papers. The effectiveness of the physical plant was augmented by the skill and planning of E. B. (Jack) Hall and his capable projection committee. Jack Hall fulfilled the traditional roll of Chairman of the Projection Committee: but more importantly, he established a system of coordinating the presentation of Audio-visual material which could very well serve as a model for future Society conventions. Several weeks prior to the convention, a daily master projection plan was prepared which listed the individual speaker and the equipment he would require during his talk. A desk located near the registration area was set aside for the Projection Committee so that all speakers could turn in their audio-visual material prior to the time of their scheduled talk.

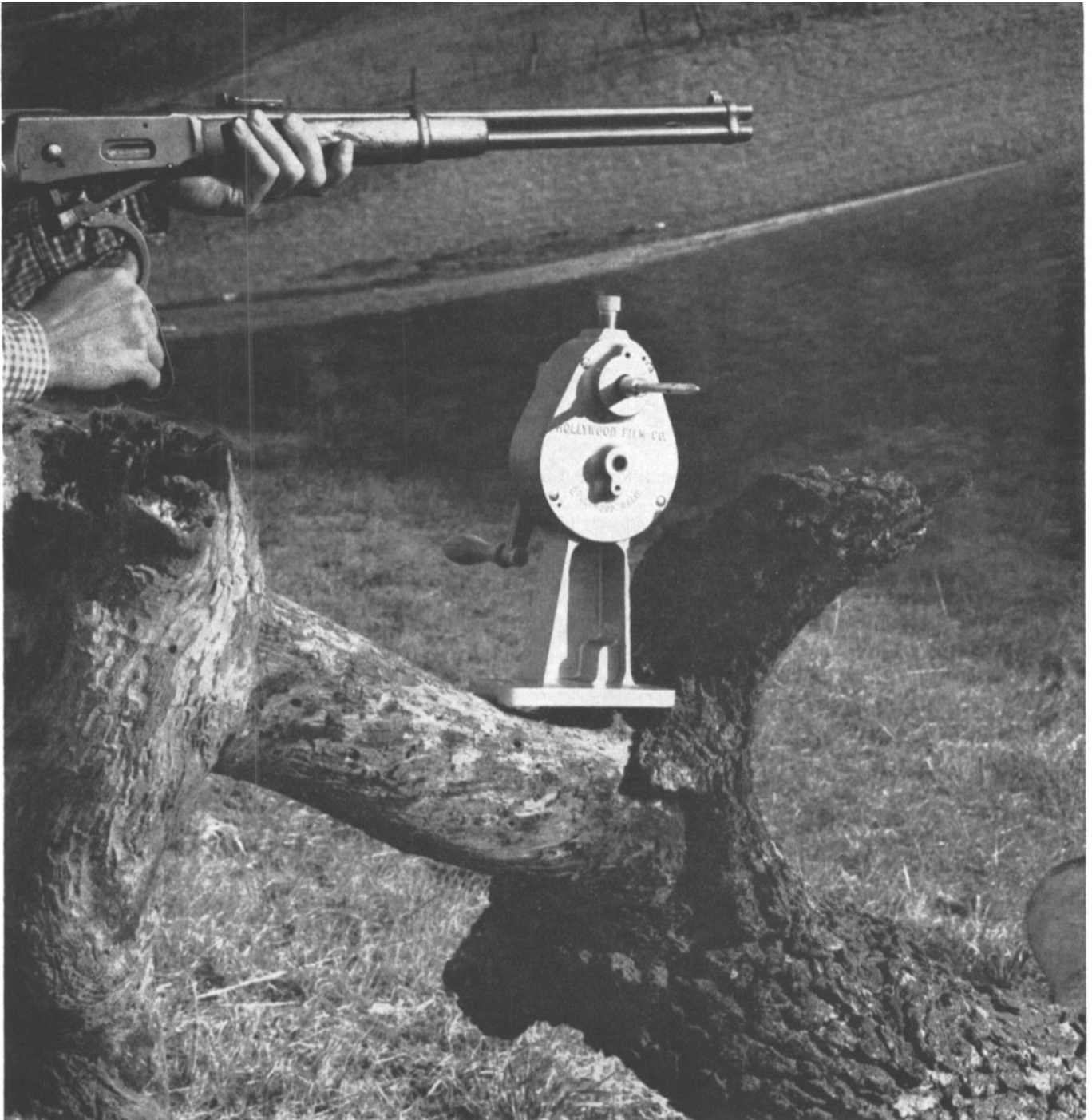
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Registration and Social Events

The registration of attendees was supervised by Charles LoBalbo. The ease with which the registration was handled was evidence of the thorough planning which went into this very important feature of the convention. George Gordon supervised the auditing of the registration funds.

Wally Hamilton photographed, on 16mm film, many of the pertinent technical and social events of the convention so that we can look forward to a newsreel review of our activities during our next convention. The film coverage was processed by courtesy of Saul Jeffec, Moviellab Film Labs.

Despite a few rainy days (including one morning when we awoke to find the ground covered with snow) the convention was a congenial one. Many members arrived on the weekend preceding the start of registration to relax and renew old acquaintances. Through the arrangements of George Keene, who obtained the precession shorts, several feature films were shown during the week. The first one was shown on Sunday evening. Prior to this, motion pictures were projected of the 1927, 1928, 1950 and 1955 conventions at Lake Placid. Glenn Matthews narrated some details of the first two, at which he had been present. An interesting sound film of the 1961 Toronto Convention was also shown.

Ken Mason had set up a series of golf tournaments which were so arranged that members could play when they had free time. At the end of the week all scores were tallied and a multitude of prizes were awarded. These were presented by Ken during a buffet luncheon served on the Golf House terrace. Dr. A. Glasoe, Eastman Kodak, set the pace for all other golfers with a low gross of 80. The golf courses, both long and short, were in excellent condition. A backdrop of snow-covered peaks and tinted foliage provided both golfers and camera enthusiasts with a delightful setting.

Joe Dougherty arranged for many entertainment events, and a wide variety of prizes were made available through the generosity of the following companies:

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The costume-cocktail party and dance on Wednesday evening, arranged by Byron Roudabush, was one of the social highlights of the convention. Earl and Marie Sponable, with their lovely daughter Mimo, directed the assembled dancers in a grand march. The creative costumes provided the spark for an evening that we will long remember.

Ladies Program

The Lake Placid Club environment provided a pleasant atmosphere for the ladies. A continental breakfast was served daily in mid-morning. In the afternoon tea was served in the Garth Lounge accompanied by the pleasant music of Paul Jouard and his orchestra. Doc Feldman, Mrs. Feldman, and Mrs. Miller kept things interesting for the ladies by providing side trips such as a boat excursion on Lake Placid and a tour of the well known Will Rogers Memorial Hospital. They were equally well prepared during the several days of rain when dancing instructions, bingo, and bridge were provided.

Get-Together Luncheon

The members of the Society were officially welcomed to the convention by President John W. Servies. Saul Jeffec, as Chairman of the Get-Together Luncheon introduced our guest speaker, Barton Kreuzer. Because Mr. Kreuzer wished to present important audio-visual material in conjunction with his talk, the luncheon was adjourned to the Agora Theater so that the

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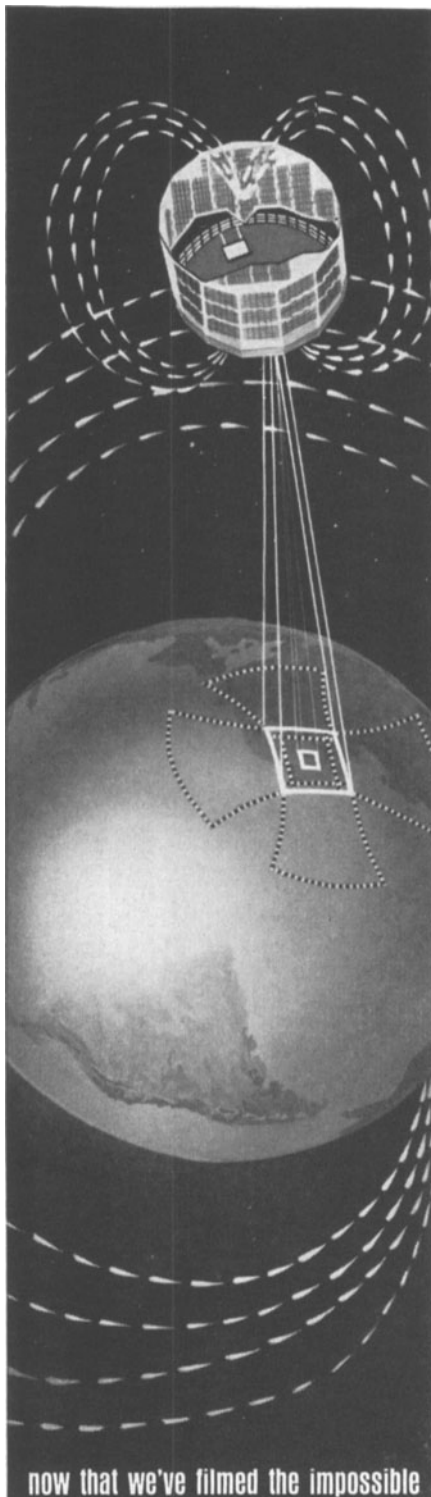
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Saul Jeffee, Moviellab Film Labs, Chairman of the Get-Together Luncheon Committee, addresses the Luncheon.

projected material could be properly viewed. The text of Mr. Kreuzer's talk is published on p. 961 of this issue.

President Servies Speaks

In his address to the Get-Together Luncheon, President John W. Servies said:

"The organization that meets here today is an older, wiser and stronger organization than the one that met here six years ago. During the years since 1955 we have seen the prestige of the Society expand on an international as well as on a national scale and branch out into new and vital areas. The theme of this Convention, the integration of motion picture and electronic systems, is indicative of this new posture of the Society. . . .

"With the introduction of television, we witnessed the marriage of motion pictures and electronics. Later, the birth of magnetic tape recording solidified this union and today the motion picture and electronic union has produced many offspring. The applications of motion picture and electronic systems are multitudinous with new applications being thought of daily.

"Currently, airports are using these systems for traffic control; satellites equipped with these systems are sending data on outer space back to the earth; industry is utilizing these systems to quality check its products and business is using them in security systems.

"The lines that once separated motion-picture technology from that of electronics have virtually ceased to exist. Much of this electronic equipment has been built on the combined principles taken from numerous areas of research. And much of it has been operated and is being operated without standardization. This lack of standardization has had an adverse effect on some phases of the industry.

"I am happy to announce, however, that American Standards in the magnetic recording systems area will be forthcoming in the near future.

"A request by the Society for the establishment of an ASA Sectional Committee on Video-Tape Recording has been accepted by the American Standards As-

sociation, opening the way for Standardization of this important area of the industry. The Society's proposal was presented to a general conference on magnetic visual-aural recording held by the ASA early last July where it received enthusiastic approval pending its presentation to the communications and electronics division of the ASA's electrical standards board.

"SMPTE will serve as administrative sponsor of the committee to be known as Combined Visual-Aural Magnetic Recording for Television, C98. The scope of this committee, which will be composed of manufacturers, consumers, and representatives of other interested groups, will include definitions and engineering standards for combined visual-aural magnetic tape records of television signals. . . .

"While we negotiated during the years for an ASA facility to process magnetic tape standards, the SMPTE Video-Tape Committee prepared standards that are now ready to be forwarded to the C98 Committee for approval. We can expect, then, the start of standardization in the video-tape field within the very near future.

"The Society's leadership in the standardization of magnetic recording is but one facet of the new personality of the organization. Another, the sponsorship of the Fifth International Congress on High-Speed Photography, was on a world-wide scale. Now, the Proceedings of the Fifth Congress are about to be published, representing another stupendous undertaking of the Society.

"Scheduled for publication later this year, the Fifth Congress Proceedings will include more than 100 technical papers, French and German Abstracts of each of these papers and complete indexes, which previous Congress Proceedings have not contained. The 600-page book, very capably edited by Dr. J. S. Courtney-Pratt of Bell Telephone Laboratories, has been one year in the making. When it is published, this book will represent the most comprehensive and valuable work of its kind in existence.

"The increased stature of the Society has been recognized both within the industry and without in recent years. One incidence of this recognition occurred in 1960 when the Society was approached by the United States Office of Education regarding the sponsorship of a conference of engineers and educators to evaluate the adequacy and suitability of presently available types of audio-visual equipment and devices in terms of current and future educational needs; and to formulate engineering principles that will serve as guideposts in the development of audio-visual devices for use in education.

"The Society accepted the U.S.O.E. proposal and operating under a \$25,000 Grant, SMPTE sponsored the conference at Princeton, New Jersey, on June 5, 6, and 7 of this year. Thirty one educators and engineers, representatives of SMPTE and the United States office of education attended this conference which was under the expert guidance of project director John Flory of Eastman Kodak Company.

"The results of this conference are now being processed. The Society, in cooperation with the United States Office of

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Education, expects to make these results public within the near future.

"We have grown over the years in size as well as in prestige. Since we met here last the number of sections and Student Chapters has more than doubled. The most recent of these, the Detroit Section, was established only this year by action of the Board of Governors on a petition from members in the Michigan-Ohio area.

"While we have grown in size and increased in stature, our responsibilities to our members and to the industry have multiplied. A great deal remains to be done. Our test film program, for instance, bears ever increasing scrutiny. Engineering advances rapidly and, as a result, films become

obsolete rapidly. They require periodic review. . . .

"We have a standard procedure for reviewing our standards. We should have, we have got to have, a similar procedure of periodic review of our test films. Our films are becoming obsolete too rapidly. It is unfortunate, but true, that some members of our technical committees have never seen the test films that they have helped to prepare. This should not be.

"The matter of test film review is even more pressing now than in the past. One, because the rapidity with which engineering is currently advancing almost defies the imagination; and, two, because the Society, in an effort to retain some of the

services of the now defunct Motion Picture Research Council, has taken over the M.P.R.C. test film program. These M.P.R.C. test films should be reviewed within the framework of the Society's test film program as well as within the framework of the existing industry situation.

"Let us hope that through the task groups set up by Dr. Deane White, Engineering Vice-President, we can initiate periodic review of our test films, each one of them, by the members of the originating committees. Let us also hope that we will find it feasible to convene a symposium at scheduled intervals to allow test film users to discuss with us the merits and demerits of our films. If we are to serve the industry, and serve it properly, we must have this kind of comprehensive investigation of our test film program that we have found to be so valuable in our standards program.

"It has been repeatedly brought to our attention that there is a pressing need in the television broadcasting field for new test films with exactly controlled density characteristics. I urge the members of the television engineering committee to immediately work on standards for such a film so that they can be produced and be made available at an early date.

"The result of the test film review will undoubtedly lead to improvement in our test film program. As you all know, with increased quality comes increased costs. Each time we review a test film or prepare a new one, the costs have mounted considerably. We may find it necessary to bring our test film prices in line with these rising costs; however, we will do this only where we feel that the service to the industry justifies it.

"We are continually faced with the great task of keeping step with a fast-paced industry. Through the devoted efforts of our 6,500 members we shall continue to do so even as new vistas open up to motion picture and television engineers."

Awards Night


Tuesday evening was reserved for the formal presentation of awards and honors. President Servies presided, assisted by other officers and chairman of the award committees. The occasion was given a truly international flavor by the presence of Norikazu Sawazaki who came from Tokyo to receive an Honorable Mention certificate from the Journal Award committee as co-author of an outstanding paper. The evening was concluded with a very informative address by Lt. Col. John A. Powers, NASA. Complete awards coverage appears in this issue of the *Journal*.

Committee Meetings

Sixteen committee meetings were held during the week, as well as a meeting of Association of Cinema Laboratories.


Coffee Club

We were fortunate to have a Coffee Club located just outside the door of the Agora Theater, where the technical sessions were held. This allowed attendees to relax over a cup of coffee in off moments without getting too far away from the technical



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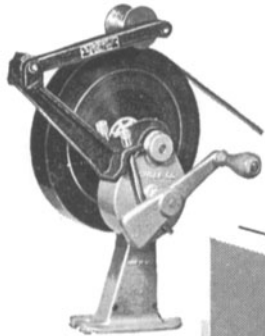

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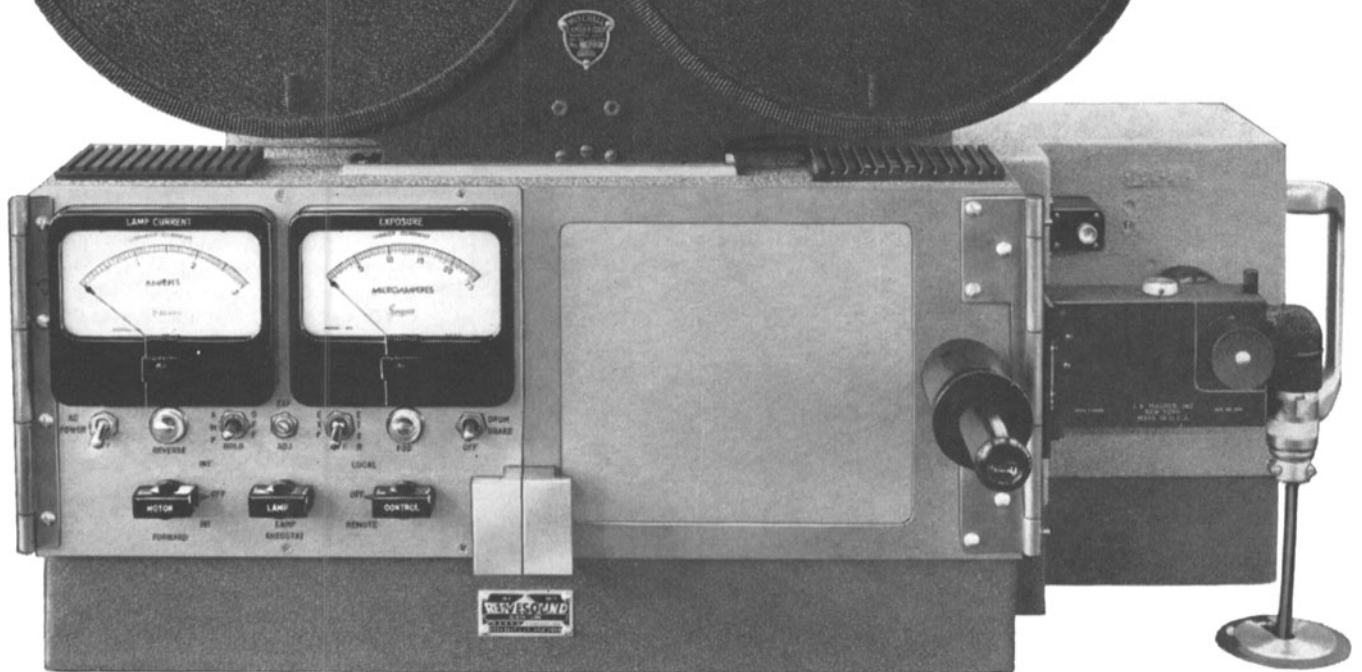
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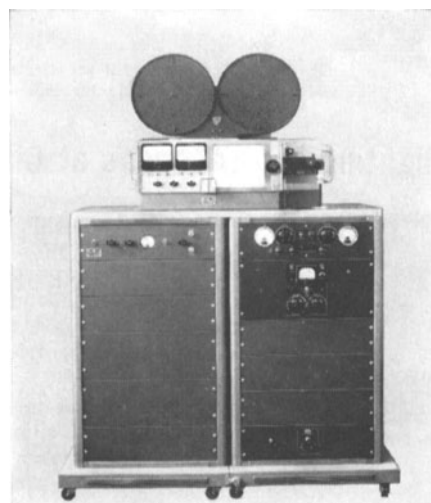
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sessions. At the convention the Coffee Club was kept open from 10:00 P.M. to midnight so that members could get together for pleasant conversation when the day's activities were through. The Society is very grateful to the Philip A. Hunt Company for sponsoring the Coffee Club.

Papers Program

A program of approximately 80 technical papers comprising 12 sessions was prepared by C. Loren Graham, Program Chairman, and his committee of Topic Chairmen under the general direction of Editorial Vice-President Glenn E. Matthews and Papers Chairman Robert C. Rheineck. The theme of the Convention, the integration of motion-picture and electronic systems, was

well illustrated by a number of papers in several of the sessions. A secondary theme, systems of visual presentation, was demonstrated in a dramatic fashion in a well attended evening session. Some highlights of the technical sessions were a general discussion on the engineering aspects of subscription television, a lively session on 8mm commercial prints, and a demonstration of a new system of projection through a liquid gate. Interest in television methods and equipment, in high-speed photography, and in space photography, was maintained at a level that has been characteristic of recent conventions.

Each of the technical papers sessions was preceded by a motion-picture short subject. These shorts were assembled by George

Keene, with the assistance of the Convention Vice-President, Harry Teitelbaum, and through the cooperation of a number of producers who submitted motion-picture prints for this purpose. Appropriate short subjects selected for each session were as follows:

- Universe*—Canadian National Film Board
- Color Collage*—Eastman Kodak Co.
- Finger Lakes*—Eastman Kodak Co.
- Seconds for Survival*—Bell Telephone Labs.
- 8mm commercial selections—Eastman Kodak Company, McGraw-Hill *Ozzie and Harriet*, *Life in the Woodlot*, *Caterpillar Tractors*, *Assignment Jet Colorama*, *Water Safety*, *The Magic Box That Remembers*
- The New World of Stainless Steel*—Wilding, Inc.
- Photo Equipment at Vandenberg Air Force Base*—USAF
- Black Widow spider*—Ken Middleham Productions
- People of Venice*—Churchill Films
- Land of White Alice*—Western Electric
- Glass*—Go Productions

In addition, three full-length 35mm features were presented. The first, *The Honeymoon Machine* (MGM), was shown on Sunday evening. The second, *The Pleasure of His Company* (Paramount), was shown on Thursday evening after the Treasure Hunt. The third, *The Hustler* (20th Century-Fox), was shown on Friday evening to the people remaining after the Convention. These motion pictures were highly appreciated by the audiences.

Space Photography and Image Sensing

The technical program was opened Monday morning by Richard Callais, Topic Chairman, and assisted by Waldemar Poch in the Vice-Chairman's position. Five papers were presented, ranging from research work in sine-wave response to the interpretation of cloud pictures from satellites.

Instrumentation and High-Speed Photography

A program of 12 papers was prepared by William Griffin, Topic Chairman, and Morton Sultanoff, Coordinator, and presented in two sessions. The first session was opened by Chairman Sultanoff. Interesting papers were presented on fiber optics and Kerr cell photography. A 30-nanosecond radiography system was described. The session continued, with Mr. Sultanoff in the chair assisted by George Silberberg, on Tuesday morning in the Forest Music Room. A varied group of papers on high-speed photography techniques and equipment were presented. It concluded in the Agora Auditorium with a 35mm motion picture regarding optical instrumentation at Vandenberg Air Force Base. This film proved so interesting that it was presented a second time later on during the Convention.

Systems of Visual Presentation

One of the highlights of the convention was a session on visual presentation with Adrian TerLouw as Topic Chairman. Following a paper describing a new approach to classroom films and a report on



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the Midwest airborne television experiment, Mr. TerLouw and his co-workers presented a 90-minute demonstration on integrated methods of visual presentation using controlled lighting and multiple projection. It is anticipated that some of the advantages described by Mr. TerLouw will be used in future presentations at the SMPTE conventions. A start in this direction was made in the projected material of several subsequent papers during the Convention.

Laboratory Practice

The Topic Chairman, Geo. W. Colburn, was tragically called away during the early hours of the Convention by the sudden death of his daughter, James Wassell and

Robert Colburn were able to take over George's responsibilities and a very fine session was held with Mr. Wassell in the chair assisted by Garland Misener. Two papers described split-screen techniques and presented a practical application in illustrating process control. Equipment papers described ultrasonic splicing of polyethylene terephthalate films and a new additive color printer and accessories.

8mm Professional Prints; Audio-Visual Techniques

A very interesting program on 8mm prints was assembled by Topic Chairman Neal Kechn, who occupied the chair during the session, assisted by John Turner. Two papers were presented on

systems for making 8mm color prints, followed by seven papers on varied uses of 8mm, including teaching machines, educational films, newsreels and advertising.

Sound Reproduction

The session was held on Wednesday morning with John Forrest as Topic Chairman occupying the chair, assisted by Robert Gale. Two papers described quality control of sound, one by a new method of reducing the "motor-boat" effect, and one on evaluating flutter. These were followed by papers on testing magnetic stripes, and equipment for transferring sound to 8mm prints. An indexing system for 1/4-in. magnetic tape in use in a large laboratory was described. After a discussion of magnetic sound standards there was a demonstration of the progress on photographic sound for 8mm film.

Panel Discussion: Engineering Aspects of Subscription TV

The panel was arranged by Gentry Veal who served as Moderator. The three systems described were Key TV, Telemeter Pay Television Systems, and Phonovision

TV Equipment and Techniques

Topic Chairman Richard O'Brien assembled the program and served as Chairman of the session assisted by Vernon Duke. A widely varied program was presented consisting of seven papers describing camera and exposure control and new camera equipment. It also included a description of a television broadcasting center and a closed-circuit system for x-ray inspection.

TV Recording

The program was assembled by Norman Olding, who also served as Chairman of the session, assisted by Harold Wright. The session opened on Wednesday afternoon, after the Panel Discussion on Subscription TV, with a paper on a time-element compensator. It was followed by a full session comprising seven papers Thursday afternoon. These described improvements of television tape recorders and video-recording cameras. There was a discussion on the editing of video-tape recordings and a discussion of a nonstudio instructional television system.

Cinematography

The Topic Chairman, William Hedden, had been very active in arranging papers for the Convention, not only for cinematography but for several other topics. He was assisted by Jack Behrend as Vice-Chairman. The session included seven papers, two of which described the use of motion pictures in medicine and medical education, and one describing a test of video tape-to-film in educational TV. One paper described a new 16mm reflex camera, and another an automatic exposure control. A thought provoking paper on a nonstandard use of 16mm to meet the 8mm print cost challenge, and a discussion of the advantages of single-system film production, completed the session.

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The Darkroom Mystery

There had been a problem in the darkroom. Something was impairing photographic quality. I discovered the clues in the chemicals...moisture penetration, causing caking and decomposition. An interesting case — but a simple solution. No need even to call my friend the good Dr. Watson. It was clearly a matter for L. B. Russell chemicals protected against moisture contamination with Tropi-

Pak plastic liners — an exclusive feature of theirs.

Russell's Tropi-Pak liners insure the consistent quality of their chemicals...keeps them dry, therefore free from decomposition. Moreover, they stay free-flowing and easy to handle in any darkroom.

Naturally, my client concurs with me...he's now buying Russell Tropi-Pak protected chemicals.



Hello! I'm your Russell Man. May I give you the details about our Tropi-Pak protected chemicals? Won't you write or call me today.

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In Canada: L. B. Russell Chemicals (Canada), Ltd.,
12 Carlaw Ave., Toronto, Ont.

Projection

Eric Yavitz was the Chairman, assisted by Robert Battey. There was a very interesting demonstration of a new system of projecting 35mm motion-picture film through a liquid gate. This was followed by four additional papers, two of which described new 16mm sound projectors. The Papers Sessions closed with two papers describing improved motion-picture projection lenses.



E. C. Hutter



J. A. Inslee



T. H. Moore

Society Awards

A special session for the presentation of awards was held on the evening of October 3 in the Agora Auditorium. President John W. Servies presided over the program; arrangements were under the direction of Byron Roudabush. Guest speaker was Lt. Col. John A. Powers, Public Affairs Officer, Space Task Group, NASA, who addressed the session on "The Astronaut," making special reference to communication techniques.

Fellows

Norwood L. Simmons, Chairman of the Fellow Membership Committee, presented certificates to those members elevated to the status of Fellow. The eighteen recipients were:

Frank G. Back
James A. Barker

John H. Jacobs
John Kiel

Kenneth Blair Benson
James W. Bostwick
Spencer W. Caldwell
J. S. Courtney-Pratt
John A. Flory
John L. Forrest
William D. Hedden

Don V. Kloepfel
George A. Mitchell
Howland Pike
Forrest A. Richey
Joseph Ruttenberg
Kurt Singer
Harry Teitelbaum

Journal Award

E. C. Hutter, J. A. Inslee and T. H. Moore were presented the 1961 Journal Award for their paper on "Electrostatic Image and Recording." The paper, which appeared in the January 1960 *Journal*, presented a method of image recording through simultaneous pickup and electrostatic storage of optical information by the use of a transducer. John L. Forrest, Chairman of the Journal Award Committee, presented the citation to the authors who

are all with the Astro Electronics Division of RCA.

Four outstanding papers were recognized by the Journal Award Committee. Honorable Mention was given to: Norikazu Sawazaki, Motoi Yagi, Masahiro Iwasaki, Genya Inada and Takuma Tamaoki, Central Research Lab, Tokyo Shibaura Electric Co., Ltd., for "A New Video-Tape Recording System"; L. J. Krolak, RCA, Walter P. Siegmund, American Optical Co., and Robert G. Neuhauser, RCA, for "Fiber Optics — A New Tool in Electronics"; Rudolf Kingslake, Eastman Kodak Co., for "The Development of the Zoom Lens"; and Fred H. Perrin, Eastman Kodak Co., for "Methods of Appraising Photographic Systems: Part II — Manipulation and Significance of the Sine-Wave Response Function."

E. I. du Pont Gold Medal

For his basic pioneering research on the image converter camera, J. S. Courtney-Pratt, Bell Telephone Labs, was presented the E. I. du Pont Gold Medal. The award, established in 1960 to be presented annually for outstanding contributions to the development of techniques and equipment in the fields of instrumentation and high-speed photography, was presented to



Dr. J. S. Courtney-Pratt, Bell Telephone Labs, receives the E. I. du Pont Gold Medal.

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