

## HIGHLIGHTS OF THE SPRING CONVENTION

HOLLYWOOD-ROOSEVELT HOTEL, HOLLYWOOD, CALIF.

APRIL 17-21, 1939

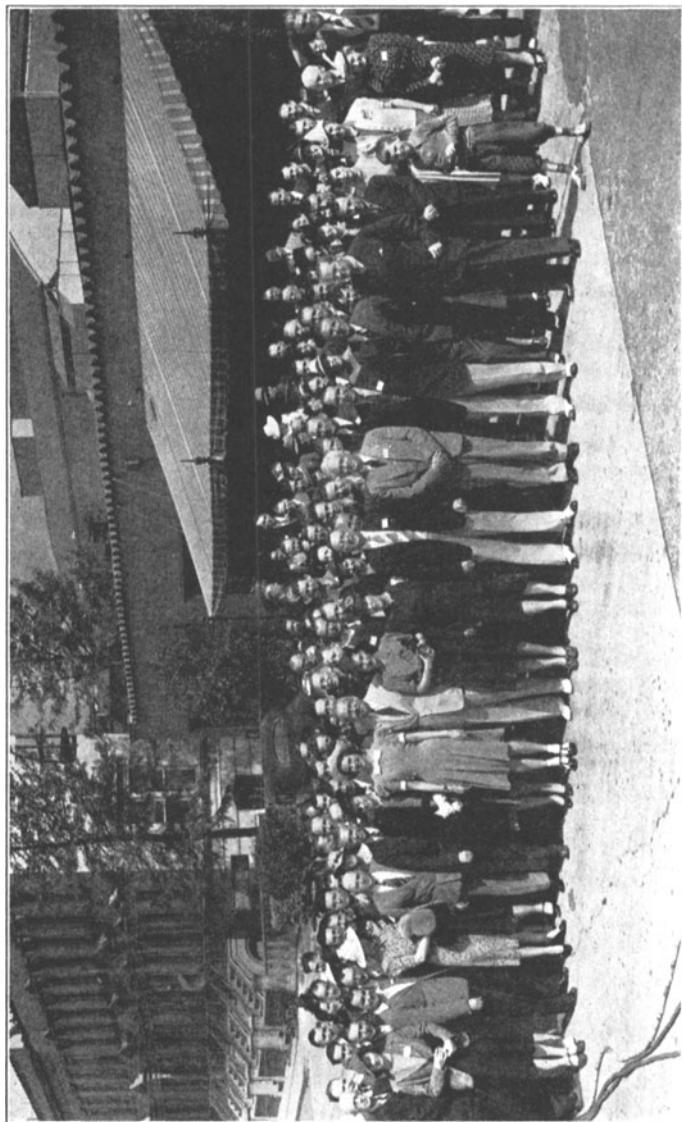
A number of outstanding features marked the 1939 Spring Convention of the Society just ended at Hollywood, among which was the notable fact that at not one of the ten sessions did the attendance fall below approximately 150. This is all the more remarkable because of the fact that the program for the five days was very crowded with technical material requiring close attention and concentration. At the last session of the Convention, on Friday, April 21st, devoted to a television symposium, the attendance was close to 500 persons.

The Convention opened at 10 A.M., Monday, April 17th, under the Chairmanship of Mr. Loren L. Ryder, who welcomed the delegates to the Convention on behalf of the Pacific Coast Section of the Society and its Board of Managers, of which Mr. Ryder is Chairman. Following several committee reports, the meeting was turned over to President E. A. Williford, who delivered a brief address of welcome to the delegates from the East and an invitation to all those engaged in motion picture pursuits in Hollywood to attend the various sessions of the Convention and to make themselves welcome. Perhaps the most outstanding paper of the Monday morning session was the "Review of Foreign Film Markets" by N. D. Golden, of the Motion Picture Division of the United States Department of Foreign and Domestic Commerce, the keynote of which was that, despite the fact that American motion pictures were still enjoying fairly wide distribution in Europe and had a very promising market in Latin America, it behooves the American producers to send abroad only their very best films in order to be sure of retaining those markets.

At noon of the opening day, the usual Informal Get-Together Luncheon was held in the Florentine Room of the Hotel. An address of welcome to Los Angeles was made by the Honorable Fletcher Bowron, Mayor of the City of Los Angeles, and as guests at the speakers' table were Mr. Lester Cowan, producer, of Universal Studios; Mr. Sinclair Lewis, author; Mr. James Hilton, writer, of Warner Bros.-First National Studio; and Mr. W. K. Howard, director. Seated at the speakers' table also were Messrs. W. C. Kunzmann, *Convention Vice-President*; J. I. Crabtree, *Editorial Vice-President*; M. C. Batsel, *Governor*; and President E. A. Williford.

Mr. Cowan, in a brief address, referred to the imminence of television and indicated that he planned to conduct "television tests" instead of the customary screen tests in selecting "Angela" for the film version of Sinclair Lewis' play, *Angela Is 22*.

Mr. Hilton stated that he believed more brains—certainly more good-will—go into making even the worst Hollywood picture than is found around the average



Photograph of Convention group, taken at Warner Bros.-First National Studios, Burbank, Calif., April 20, 1939.

European round-table, and Mr. Howard paid tribute to the valuable contribution of sound experts and other technicians to the progress of motion pictures. Mr. Williford acted as Master of Ceremonies.

The afternoon session of Monday included an interesting discussion by A. L. Williams on "Further Improvements in Light-Weight Record Reproducers, and Theoretical Considerations Entering into Their Design." The session concluded with an interesting paper on "The Time Telescope" by C. R. Veber, a new highly automatic mechanism for making time-lapse pictures.

Mr. K. F. Morgan presided at the Photographic Session held on the evening of Monday, April 17th, which opened with a discussion of the new fluorescent lamps and their application to motion picture studio lighting, by G. E. Inmann and W. H. Robinson. These lamps are finding wide application in industrial and domestic uses and are now being applied to motion picture stage lighting. A paper by L. D. Grignon discussed the controversial question of "Flicker in Motion Pictures," and contained a qualitative review of the now prevailing sources of flicker, presenting some new concepts, and emphasizing the sources of major importance at the present time. The paper evoked considerable discussion from the floor.

Tuesday morning, April 18th, was devoted to a Projection Session, under the Chairmanship of H. W. Remerschied, and contained the reports of the Projection Practice and Exchange Practice Committees, in addition to an extensive discussion of "Lamps and Optical Systems for Sound Reproduction," by F. E. Carlson, in which the problem of uniformity of sound-slit illumination was discussed.

Tuesday afternoon was devoted to a visit to Paramount Studios, under the direction of Mr. Loren L. Ryder, Director of Recording. The visit included a demonstration of projection background shooting and inspection of the stages where special effects and miniature work are carried out. Visits were made also to the Sound Department, Dubbing Department, and the Production Stages, where feature shooting was witnessed.

In demonstrating the projection background process, a scene of the forthcoming picture *Union Pacific* was shot by Mr. Cecil B. deMille, Director. In the Review Room, scenes from *Spawn of the North* were projected without sound, in order to show the various background sequences in the scene, which were pointed out by Mr. A. F. Edouart, in charge of the Paramount Transparency Department. The same scene was later shown with the sound effects added.

The Tuesday evening session was held at the Filmarte Theater under the Chairmanship of Mr. B. F. Miller. One of the interesting presentations of the evening was a paper on "The Present Technical Status of 16-Mm. Sound-on-Film," by J. A. Maurer. Mr. Maurer's entire presentation had previously been recorded on 16-mm. film by the processes described in the paper, and instead of making the presentation orally, Mr. Maurer allowed the film reproducer to make it for him, including in the reproduction various samples of music and speech. The presentation was notable for the excellence of the reproduction. A paper by K. F. Morgan and D. P. Loye discussed in considerable detail the various amounts of dialog equalization required in recording and reproducing, tracing these requirements from the voice of the actor on the stage to the brain of the auditor in the theater subjectively receiving the reproduced sounds. An interesting phase of the presentation was the demonstration by Mr. Loye of the manner in which the quality

of the voice changes with changes of level in speaking and in reproduction from the film.

The morning of Wednesday, April 19th, was devoted to sound, under the Chairmanship of Mr. J. O. Aalberg. An interesting paper by G. M. Best described a new sound-track projection microscope by means of which sound-track records can be examined with great speed and precision and effects in recording, such as transients due to printer sprockets, weave, and the like, discovered and analyzed with great dispatch.

On Wednesday evening Mr. R. M. Townsend was the Chairman of the Sound Session, held at the Filmarte Theater. A new "Direct Positive System of Sound Recording" was described by G. L. Dimmick and A. C. Blaney, and an interesting "Report on Recent Activities of the Research Council Committee on Standardization of Theater Sound Projection Equipment Characteristics" was presented by J. K. Hilliard, Chairman of the Committee. The demonstration included the projection of the new Academy sound test films, which included a series of fixed frequency records, buzz track, and recordings of outstanding scenes from the major studios.

A demonstration was given by N. B. Neeley and W. V. Stencil of "Modern Instantaneous Recording and Its Reproduction Technic," which included the reproduction of remarks made by President Williford on the day before, and recorded on disk unknown to the audience. In exemplification of the improvements that have been made in disk recording, several records recorded in 1906 were reproduced as a matter of contrast with some modern recordings recently produced. In addition, an example of stereophonic reproduction was given in which the recording had been done with two microphones and two cutting heads, the reproduction being accomplished by two reproducing heads running in synchronism on two separate sound-tracks on the disk.

The evening closed with the projection of one reel of Bluebeard's *Eighth Wife*, dubbed in French, the purpose being to demonstrate the exact synchronism attainable nowadays in preparing foreign-language versions of films originally recorded in English.

The Photographic and Laboratory Session, held on the morning of Thursday, April 20th, under the Chairmanship of D. E. Hyndman, contained several interesting papers, among which was the description of "An Instrument for the Absolute Measurement of the Graininess of Photographic Emulsions," by A. Goetz, W. O. Gould, and A. Dember, and a paper by J. R. Alburger describing the new "RCA Aluminate Developers." Mr. Alburger's paper evoked considerable discussion, including the question of whether similar effects could not be achieved with other materials.

A visit to the Warner Bros.-First National Studio, under the direction of Major Nathan Levinson, Executive Vice-President of the Society, occupied the afternoon. First the delegates were the guests of the Studio at luncheon in the commissary, after which they were conducted on a tour through the Wardrobe and Property Departments and also to the new unit of the Crafts Building. An opportunity was also afforded to visit the new laboratory, in addition to a general sight-seeing tour of the lot, and an inspection of the outdoor stages.

The Semi-Annual Banquet of the Society was held in the Blossom Room of the Hotel in the evening (April 20th). About 400 persons attended the banquet and

after introducing the officers and governors present, President Williford addressed a few words of appreciation to all the studios and individuals who had contributed their time and effort to making the convention so successful. He then introduced Bob Hope, motion picture and radio comedian, who acted as Master of Ceremonies. Present at the speakers' table were Mr. and Mrs. Frank McHugh, Mr. and Mrs. Pat O'Brien, Mr. and Mrs. Edward G. Robinson, Mr. and Mrs. E. A. Williford, Major and Mrs. Nathan Levinson, Rudy Vallee, Miss Marjory Weaver, and Mr. Lucian Hubbard.

A half hour of entertainment was provided by Bob Hope, Rudy Vallee, Miss Ella Logan, and Jerry Cologna, after which the evening concluded with dancing.

Although not scheduled as part of the Convention program, members of the Society witnessed a demonstration by Mr. J. G. Capstaff, at the Grauman's Chinese Theater, of the effect of providing around the screen picture projected borders of various shades of gray. The demonstration was witnessed by quite a large gathering of persons, and an interesting discussion followed.

Friday afternoon (April 21st) was devoted to a Studio Practice Session under the Chairmanship of Mr. H. Griffin. S. J. Begun demonstrated "A New Magnetic Recorder," developed according to principles described in papers presented at previous conventions, and a paper by R. N. Marshall and W. R. Harry described very completely the new "Cardioid Directional Microphone" recently developed by the Bell Telephone Laboratories.

The climax of the Convention occurred on Friday evening, when the Television Session was held in the Blossom Room of the Hotel under the Chairmanship of Professor S. MacKeown of the California Institute of Technology.

This symposium on a subject of such vital importance at this time to the motion picture industry, has been described as the most outstanding collection of presentations on the subject of television as related to motion pictures so far held at one time, and covered the various phases from television stage production to the applications of film to television, and television studio technic, lighting, and equipment. Included in the symposium was the report of the SMPE Television Committee, the theme of which was the expressed hope of avoiding conflicting standards or practices in the motion picture and television arts, and to guard against misunderstanding, misstatements, and unnecessary conflicts of aims or opinions. Partial reports of the Sub-Committees on Production Technic and Film Processing were included.

#### EXHIBITS

An exhibit of new equipment was held throughout the entire convention under the Chairmanship of Dr. J. G. Frayne, and it was generally conceded that this exhibit was one of the finest yet held and commanded the greatest amount of interest. The exhibitors were as follows:

The Ampro Corporation	The Strong Electric Corporation
Electrical Research Products, Inc.	Eastman Kodak Company
International Projector Corporation	Golde Manufacturing Co.
The Kalart Company	D. G. Jones & H. G. Tasker
Lansing Manufacturing Company	Mole-Richardson Company
Moviola Company	Neumade Products Corp.
Newman Brothers, Inc.	Norman B. Neely Radio Enterprises
RCA Manufacturing Company	Universal Microphone Co., Ltd.

The exhibit covered broadly the field of production and reproduction of motion pictures in both the professional and amateur fields. ERPI and RCA had very interesting exhibits of microphones, while International Projector, Lansing, and RCA displayed their most recent projection equipment. The Norman B. Neely Company and the Universal Microphone Company both had exhibits of direct recording and playback equipment.

On Thursday and Friday nights of the Convention, the Hollywood Television Society, under the leadership of Mr. Richard Baird and Mr. Thornton Chew, gave an interesting demonstration of television reception, the broadcast being received from the Don Lee Broadcasting Station W6XAO. This demonstration was particularly timely as it rounded out the papers program devoted to television.

Also during the entire convention an exhibit of approximately 150 color-stills was held on the mezzanine of the Hotel. This exhibit was particularly outstanding with respect to the quality of the exhibits both from the photographic and artistic points of view, and the Society extends much appreciation to all those who contributed in making this exhibit such an outstanding success. Following is a list of the exhibitors. Mr. O. O. Ceccarini was Chairman of the Exhibit.

E. W. BENSON North Hackensack, N. J.	CHESTER A. PLEADWELL Flint, Mich.	NICOLL-PRATT CORP. Los Angeles, Calif.
CHARLES W. BURGESS Minneapolis, Minn.	DEFENDER PHOTO SUPPLY Co., INC. Rochester, N. Y.	R. T. DOONER Philadelphia, Pa.
WHITING-FELLOWS New York, N. Y.	SHIGETA-WRIGHT, INC. Chicago, Ill.	CHARLES H. MILLER Chicago, Ill.
PAGANO, INC. New York, N. Y.	WILLIAM STEVENSON Cleveland, Ohio	K. L. HENDERSON Rochester, N. Y.
PAUL A. HESSE STUDIOS New York, N. Y.	WALDEMAR G. HANSEN Los Angeles, Calif.	RALPH BOYLE Philadelphia, Pa.
VICTOR KEPPLER New York, N. Y.	VAN DAMM STUDIO New York, N. Y.	O. O. CECCARINI Hollywood, Calif.
E. L. LETTEN Toronto, Canada	W. G. HOUSKEEPER South Orange, N. J.	H. I. WILLIAMS STUDIO New York, N. Y.
GOESTA P. G. LJUNGDAHL STUDIOS New York, N. Y.	WILFRED H. WOLFS New York, N. Y.	HARRIS B. TUTTLE Rochester, N. Y.
NICKOLAS MURAY AND ASSOCIATES New York, N. Y.	MAX HIRSCH, JR. Long Island, N. Y.	WYNN RICHARDS New York, N. Y.
JAMES PICKARDS, II New Haven, Conn.	S. G. HALL Rochester, N. Y.	FRANK MILLER
	JAMES N. DOOLITTLE Los Angeles, Calif.	EVERETT MOSES Chicago, Ill.

#### ACKNOWLEDGMENTS

The Society wishes to acknowledge its gratitude to the large number of persons and companies who collaborated in providing the various facilities of the Convention and in fact making the Convention possible. The general facilities of the

Convention were arranged by Mr. W. C. Kunzmann, *Convention Vice-President*; Major Nathan Levinson, *Executive Vice-President*; Mr. J. I. Crabtree, *Editorial Vice-President*; Mr. L. L. Ryder, chairman of the Pacific Coast Section; Mr. H. G. Tasker, Chairman of the Local Arrangements Committee; and Mr. Julius Haber, Chairman of the Publicity Committee. Mr. L. A. Aicholtz was Chairman of the Pacific Coast Papers Committee and Mr. L. D. Grignon assisted in arranging the television symposium.

Thanks are due to Dr. J. G. Frayne for his work in arranging an outstanding exhibit of new motion picture equipment, and to Mr. O. O. Ceccarini, who was Chairman of the Color Still Exhibit.

Messrs. H. Griffin, C. N. Batsel, C. R. Sawyer, and W. V. Stancil are all to be thanked for their efforts and labor in providing the projection and sound reproducing equipment used at the Filmarte Theater and the public address system used in the Blossom Room as well as at the theater.

The society extends its thanks also to the Research Council of the Academy of Motion Picture Arts & Sciences, and to Mr. Gordon S. Mitchell, for their kind assistance; to the members and chairmen of the various SMPE local committees; and to the Walt Disney Studio for making the Filmarte Theater available to the Society for the two evening sessions held there.

The Society is indebted also to Mrs. Nathan Levinson, Chairman of the Ladies Committee, for her efforts in arranging an interesting program for the ladies attending the Convention.

Among the companies who contributed in equipment and service to the Convention were the following: RCA Manufacturing Company; Electrical Research Products, Inc.; Lansing Manufacturing Company; International Projector Corporation; National Carbon Company; General Electric Company; Bausch & Lomb Optical Company; Eastman Kodak Company; Mole-Richardson, Inc.; Bell & Howell Co.; and National Theater Supply Company.

Thanks are due also to the members and officers of Los Angeles Projectionists Local No. 150 IATSE for providing the projectionists for the Convention.

The Society is indebted to the Paramount Studios and Warner Bros.-First National Studio for the visits arranged for the Tuesday and Thursday afternoon sessions and to Fox West Coast Theaters, Inc., Warner Bros. Theaters, Inc., and Rodney Pantages, Inc., for passes issued to the delegates to the Convention for the following theaters: Grauman's Chinese and Egyptian Theaters, Warner's Hollywood Theater, and Pantages' Hollywood Theater; also to the Hollywood Chamber of Commerce and the staff and management of the Hollywood-Roosevelt Hotel.

## PROGRAM\*

MONDAY, APRIL 17TH

- General and Business Session;** L. L. Ryder, *Chairman*.  
**10:00 a.m.** Report of the Convention Committee; W. C. Kunzmann, *Convention Vice-President*.  
Report of the Membership and Subscription Committee; E. R. Geib, *Chairman*.  
Welcome by the President; E. A. Williford, *President*.  
Society Business; E. A. Williford, *Chairman*.  
Report of the Progress Committee; J. G. Frayne, *Chairman*.  
"Safekeeping the Picture Industry;" K. W. Keene, Underwriters' Laboratories, San Francisco, Calif.  
"Review of Foreign Film Markets;" N. D. Golden, Motion Picture Division, Department of Commerce, Washington, D. C.
- 12:30 p.m.** **Informal Get-Together Luncheon;** E. A. Williford, *Chairman*.  
Address of Welcome by the Honorable Fletcher Bowron, Mayor of the City of Los Angeles.  
Guests: Mr. Lester Cowan, Producer, Universal Studios; Mr. Sinclair Lewis, Author; Mr. James Hilton, Writer, Warner Bros.-First National Studios; Mr. W. K. Howard, Director.
- General Session;** J. I. Crabtree, *Chairman*.  
**2:00 p.m.** "The Polyrheter—a 150-Channel Film Reproducer;" G. T. Stanton, Electrical Research Products, Inc., and F. R. Marion and D. V. Water, Western Electric Co., New York, N. Y.  
"Technicolor Field Service;" G. Giroux, Technicolor Motion Picture Corp., Hollywood, Calif.  
"Further Improvements in Light-Weight Record Reproducers, and Theoretical Considerations Entering into Their Design;" A. L. Williams, The Brush Development Co., Cleveland, Ohio.  
"New Frontiers for the Documentary Film;" A. A. Mercey, United States Film Service, National Emergency Council, Washington, D. C.  
"The Time Telescope;" C. R. Veber, Department of Biophotography, Rutgers University, New Brunswick, N. J.  
"The Preservation of History in the Crypt of Civilization;" T. K. Peters, Oglethorpe University, Ga.
- Photographic Session;** K. F. Morgan, *Chairman*.  
**8:00 p.m.** "The Fluorescent Lamp and Its Application to Motion Picture Studio Lighting;" G. E. Inman and W. H. Robinson, Jr., General Electric Co., Los Angeles, Calif.
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\* As actually followed at the meetings.

- "Mobile Photography by the Technicolor Method;" G. Cave, Technicolor Motion Picture Corp., Hollywood, Calif.
- "Recent Improvements in Carbons for Motion Picture Set Lighting;" D. B. Joy, W. W. Lozier, and R. J. Zavesky, National Carbon Co., Fostoria, Ohio.
- Report of the Studio Lighting Committee; C. W. Handley, *Chairman*.
- "Remarks on the Work of the Research Council Process Projection Equipment Committee;" F. Edouart, Paramount Publix Corp., Hollywood, Calif.
- "Carbons for Rear Projection Motion Picture Studios;" D. B. Joy, W. W. Lozier, and M. R. Null, National Carbon Co., Fostoria, Ohio.
- "Twentieth Century Silent Camera;" G. Laube, Twentieth Century-Fox Film Corp., Hollywood, Calif.
- "Flicker in Motion Pictures;" L. D. Grignon, Paramount Productions, Inc., Hollywood, Calif.

## TUESDAY, APRIL 18TH

**Projection Session;** H. W. Remerschied, *Chairman*.

- 10:00 a.m. "Screen Color and Brightness;" W. C. Harcus, Technicolor Motion Picture Corp., Hollywood, Calif.
- Report of the Projection Practice Committee; H. Rubin, *Chairman*.
- Report of the Exchange Practice Committee; A. L. Schwalberg, *Chairman*.
- "The Motion Picture in Education;" A. Shapiro, Ampro Corp., Chicago, Ill.
- "Lamps and Optical Systems for Sound Reproduction;" F. E. Carlson, General Electric Co., Cleveland, Ohio.
- "The Status of Lens Making in America;" W. B. Rayton.
- "Technicolor Field Service;" G. Giroux, Technicolor Motion Picture Corp., Hollywood, Calif.
- 2:30 p.m. **Visit to Paramount Publix Studios;** under the direction of Mr. Loren L. Ryder, Director of Recording. The visit included an opportunity of viewing projection background shooting and visiting the stages where special effects and miniature work are carried out. Visits were made also to the Sound Department, Dubbing Department, and the Production Stages where picture shooting was witnessed.
- Sound Session;** B. F. Miller, *Chairman*.
- 8:00 p.m. "Methods of Using and Coordinating Photoelectric Exposure Meters at the 20th Century-Fox Studio;" D. B. Clark, 20th Century-Fox Corp., Hollywood, Calif.
- "The Present Technical Status of 16-Mm. Sound-on-Film;" J. A. Maurer, Berndt-Maurer Corp., New York, N. Y.
- "Recording and Reproducing Characteristics;" K. F. Morgan and D. P. Loye, Electrical Research Products, Inc., Hollywood, Calif.
- "Analysis and Measurement of Distortion in Variable-Density

Recording;" J. G. Frayne and R. R. Scoville, Electrical Research Products, Inc., Hollywood, Calif.

"A New Film Playback;" D. G. Jones, Hollywood, Calif.

#### WEDNESDAY, APRIL 19TH

**Sound Session;** J. O. Aalberg, *Chairman*.

**10:00 a.m.** "A Sound-Track Projection Microscope;" G. M. Best, Warner Bros.-First National Studios, Burbank, Calif.

"Controlled Sound Reflection in Review Rooms and Theaters;" C. M. Mugler, Acoustical Engineering Co., Los Angeles, Calif.

"Acoustic Condition Factors;" M. Rettinger, RCA Manufacturing Co., Hollywood, Calif.

"Push-Pull Audio Transformer Design for Minimum Amplifier Distortion and Intermodulation;" B. F. Miller, Warner Bros.-First National Studios, Burbank, Calif.

"Use of an A.-C. Polarized Photoelectric Cell for Light Valve Bias Current Determination;" C. R. Daily, Paramount Productions, Hollywood, Calif.

"A Densitometric Method of Checking the Quality of Variable-Area Prints;" C. R. Daily and I. M. Chambers, Paramount Productions, Hollywood Calif.

"A New Mobile Film Recording System;" B. Kreuzer, RCA Manufacturing Co., Los Angeles, Calif., and C. L. Lootens, Republic Productions, Inc., North Hollywood, Calif.

**Open afternoon.**

**Sound Session;** R. M. Townsend, *Chairman*.

**8:00 p.m.** "A Direct Positive System of Sound Recording;" G. L. Dimmick, RCA Manufacturing Co., Camden, N. J., and A. C. Blaney, RCA Manufacturing Co., Hollywood, Calif.

"A Newly Designed Sound Motion Picture Reproducing Equipment;" J. S. Pesce, RCA Manufacturing Co., Camden, N. J.

"Class A-B Push-Pull Recording System;" C. H. Cartwright and W. S. Thompson, RCA Manufacturing Co., Hollywood, Calif.

"Report on Recent Activities of the Research Council Committee on Standardization of Theater Sound Projection Equipment Characteristics;" J. K. Hilliard, *Chairman*.

"Modern Instantaneous Recording and Its Reproduction Technic;" N. B. Neeley and W. V. Stencil, Norman B. Neeley Enterprises, Hollywood, Calif.

#### THURSDAY, APRIL 20TH

**Photographic and Laboratory Session;** D. E. Hyndman, *Chairman*.

**10:00 a.m.** "A Direct-Reading Photoelectric Densitometer;" D. R. White, DuPont Film Manufacturing Corp., Parlin, N. J.

"An Instrument for the Absolute Measurement of the Graininess of Photographic Emulsions;" A. Goetz, W. O. Gould, and A. Dember, California Institute of Technology, Pasadena, Calif.

"RCA Aluminate Developers;" J. R. Alburger, RCA Manufacturing Co., Camden, N. J.

"Some Factors Governing the Design, Construction, and Operation of a Motion Picture Laboratory;" Report of the Committee on Laboratory Practice; D. E. Hyndman, *Chairman*.

"Simplifying and Controlling Film Travel through a Developing Machine;" J. F. Van Leuven, Fonda Machinery Co., Los Angeles, Calif.

"A Reel and Tray Developing Machine;" R. S. Leonard, Municipal Light and Power System, Seattle, Wash.

**2:30 p.m.** **Visit to Warner Bros.-First National Studio;** under the direction of Major Nathan Levinson, Director of Recording. Visits were made to the Wardrobe and Property Departments, and also to the new unit of the Crafts Building. An opportunity was also afforded to visit the new ultra-modern laboratory, in addition to a general sight-seeing tour of the lot. Luncheon at the studio at 1:00 p.m.

**8:30 p.m.** *Blossom Room; Semi-Annual Banquet.*

Introduction of stars and prominent guests.

Dancing and entertainment.

#### FRIDAY, APRIL 21ST

**Open morning.**

**Studio practice session;** H. Griffin, *Chairman*.

**2:00 p.m.** "A New Magnetic Recorder and Its Adaptations;" S. J. Begun, The Brush Development Co., Cleveland, Ohio.

"Western Electric Microphones for Sound Recording;" F. L. Hopper, Electrical Research Products, Inc., Hollywood, Calif.

"A Cardioid Directional Microphone;" R. N. Marshall and W. R. Harry, Bell Telephone Laboratories, New York, N. Y.

"A Light-Weight Sound Recording System;" F. L. Hopper, E. C. Manderfeld, and R. R. Scoville, Electrical Research Products, Inc., Hollywood, Calif.

"Paramount Triple-Head Transparency Process Projector;" A. F. Edouart, Paramount Studios, Hollywood, Calif.

"A Classroom 16-Mm. Projector;" A. Shapiro, Ampro Corp., Chicago, Ill.

"Background and Aims of Erpi Classroom Films;" P. Cox, Hollywood, Calif.

"A High-Intensity Arc for 16-Mm. Projection;" H. H. Strong, Strong Electric Co., Toledo, Ohio.

"New 16-Mm. Recording Equipment;" D. Canady, Canady Sound Appliance Co., Cleveland, Ohio.

"Notes on French 16-Mm. Equipment;" D. Canady, Canady Sound Appliance Co., Cleveland, Ohio.

**Open afternoon.**

**Television Session;** S. MacKeown, *Chairman*.

- 8:00 p.m. "An Introduction to Television Production;" H. R. Lubeke, Don Lec Broadcasting Co., Los Angeles, Calif.  
Report of the Television Committee; A. N. Goldsmith, *Chairman*.  
"Application of Motion Picture Film to Television;" E. W. Engstrom and G. L. Beers, RCA Manufacturing Co., Camden, N. J.  
"Continuous Type Film Scanner for Television;" P. T. Goldmark, Columbia Broadcasting Co., New York, N. Y.  
"Television Studio Technic;" A. W. Protzman, National Broadcasting Co., New York, N. Y.  
"Television Lighting;" William C. Eddy, National Broadcasting Co., New York, N. Y.  
"Design Problems in Television Systems and Receivers;" A. B. Dumont, Allen B. Dumont Laboratories, Passaic, N. J.