

## SPRING, 1935, CONVENTION

SOCIETY OF MOTION PICTURE ENGINEERS

HOTEL ROOSEVELT, HOLLYWOOD, CALIF.

MAY 20-24, INCL.

### *Officers and Committees in Charge*

#### PROGRAM AND FACILITIES

W. C. KUNZMANN, *Convention Vice-President*

J. I. CRABTREE, *Editorial Vice-President*

J. O. BAKER, *Chairman, Papers Committee*

#### LOCAL ARRANGEMENTS AND RECEPTION COMMITTEE

P. MOLE, *Chairman*

G. S. MITCHELL

E. HUSE

G. F. RACKETT

W. J. QUINLAN

K. F. MORGAN

H. W. MOYSE

J. A. BALL

W. C. HARCUS

J. A. DUBRAY

C. W. HANDLEY

E. C. RICHARDSON

F. E. JAMES

R. H. McCULLOUGH

R. G. LINDERMAN

C. DREHER

N. LEVINSON

#### PROJECTION COMMITTEE

H. GRIFFIN, *Chairman*

J. O. AALBERG

R. H. McCULLOUGH

L. E. CLARK

K. F. MORGAN

Officers and Members of Los Angeles Local 150, I. A. T. S. E.

#### STUDIO AND NEW EQUIPMENT EXHIBIT

O. F. NEU, *Chairman*

H. GRIFFIN

J. FRANK, JR.

P. MOLE

S. HARRIS

#### BANQUET

W. C. KUNZMANN, *Chairman*

P. MOLE

W. J. QUINLAN

E. HUSE

G. S. MITCHELL

G. F. RACKETT

O. F. NEU

#### PUBLICITY COMMITTEE

W. WHITMORE, *Chairman*

J. J. FINN

J. R. CAMERON

A. JONES

F. H. RICHARDSON

G. E. MATTHEWS

P. A. MCGUIRE

**MEMBERSHIP**

O. M. GLUNT, *Financial Vice-President*  
E. R. GRIB, *Chairman, Membership Committee*

**LADIES' RECEPTION COMMITTEE**

MRS. E. HUSE, *Hostess*  
*assisted by*

MRS. G. F. RACKETT  
MRS. W. J. QUINLAN

MRS. F. E. JAMES  
MRS. P. MOLE  
MRS. C. W. HANDLEY

MRS. E. C. RICHARDSON  
MRS. F. C. COATES

**Headquarters**

The headquarters of the Convention will be the Hotel Roosevelt, where excellent accommodations and Convention facilities are assured. Registration will begin at 9 a.m. Monday, May 20th. A special suite will be provided for the ladies attending the convention. Rates for S. M. P. E. delegates, European plan, will be as follows:

- Single: \$2.50 per day; one person, single bed.
- Double: \$3.50 per day; two persons, double bed.
- Double: \$4.50 per day; two persons, twin beds.
- Suites: \$6.00 and \$8.00 per day.

**Technical Sessions**

An attractive program of technical papers and presentations follows. Several sessions will be held in the evening, to permit those to attend who would be otherwise engaged in the daytime. All sessions will be held at the Hotel.

**Studio and Equipment Exhibit**

The exhibit at this Convention will feature apparatus and equipment developed in the studios, in addition to the usual commercial equipment. All studios are urged to participate by exhibiting any particular equipment or devices they may have constructed or devised to suit their individual problems, conform to their particular operating conditions, or to achieve economies in production, facilitate their work, or improve their products.

Those desiring to participate should communicate with the General Office of the Society, Hotel Pennsylvania, New York, N. Y. No charge will be made for space. Each exhibitor should display a card carrying the name of the particular studio or manufacturer, and each piece of equipment should be plainly labelled. In addition, an expert should be in attendance who is capable of explaining the technical features of the exhibit to the Convention delegates. Expenses incidental to installing and removing equipment, and the cost of any power consumed, will be borne by the exhibitors.

**Semi-Annual Banquet**

The semi-annual banquet of the Society will be held at the Hotel on Wednesday, May 22nd. Addresses will be delivered by prominent members of the industry, followed by dancing and entertainment. Tables reserved for 8, 10, or 12 persons; tickets obtainable at the registration desk.

### ***Studio Visits***

S. M. P. E. delegates to the Convention have been courteously granted the privilege of visiting and inspecting the Warner Bros. First National Studio (courtesy of the Electrical Dept.), the Fox Hill Studio of Fox Film Corp., and the Walt Disney Studio: admission by registration card only. A visit has also been arranged to the California Institute of Technology. All bus charges on studio and other trips will be assumed by the individual delegates.

### ***Motion Pictures***

Passes will be available during the Convention to those registering, to Grauman's Chinese and Egyptian Theaters, Pantages' Hollywood Theater, Warner Bros.' Hollywood Theater, and Gore Bros.' Iris Theater.

### ***Ladies' Program***

An especially attractive program for the ladies attending the Convention is being arranged by Mrs. E. Huse, *hostess*, and her Ladies' Committee. A suite will be provided in the Hotel where the ladies will register and meet for the various events upon their program.

Further details of the Convention will be published in the next issue of the JOURNAL.

### ***Points of Interest***

*En route:* the gigantic Boulder Dam project, Las Vegas, Nevada; Union Pacific Railroad.

*Hollywood and vicinity:* Beautiful Catalina Island; Zeiss Planetarium (Open May 1st); Mt. Wilson Observatory; Lookout Point, on Lookout Mountain; Huntington Library and Art Gallery (by appointment only); Palm Springs, Calif.; beaches at Ocean Park and Venice, Calif.; famous old Spanish missions; Los Angeles Museum (housing the S. M. P. E. motion picture exhibit); Mexican village and street, Los Angeles; the California Pacific International Exposition at San Diego, Calif. (open May 29th); Agua Caliente, Mexico; Tia Juana, Mexico.

### ***Golf***

Members attending the Convention have been extended the privileges, at the usual course rates, of the following courses:

Hollywood Country Club, North Hollywood  
Oakmont Country Club, Glendale  
Westwood Country Club, Westwood  
Rancho Golf Club, Westwood

**TENTATIVE PROGRAM**  
**OF THE**  
**SPRING CONVENTION**

HOTEL ROOSEVELT, HOLLYWOOD, CALIF.  
MAY 20-24, 1935

MONDAY, MAY 20TH

**9:00 a.m. Registration.**

**10:00 a.m. General Session.**

Address of Welcome.

Presidential Response; H. G. Tasker.

Society Business.

Report of Membership Committee; E. R. Geib, *Chairman*.

Report of Progress Committee; J. G. Frayne, *Chairman*.

Report of Non-Theatrical Equipment Committee; R. F. Mitchell, *Chairman*.

"Non-Theatrical Projection"; R. F. Mitchell, Bell & Howell Co., Chicago, Ill.

"Television and Motion Pictures"; A. N. Goldsmith, New York, N. Y.

"The Talking Book"; J. O. Kleber, American Foundation for the Blind, New York, N. Y.

"Use of Films and Motion Picture Equipment in Schools"; Miss M. Evans, San Diego City Schools, San Diego, Calif.

**12:30 p.m. Informal Get-Together Luncheon.**

For members and guests of the Society; speakers to be announced later.

**2:00 p.m. General Session.**

Report of the Historical Committee; W. E. Theisen, *Chairman*.

"A Description of the Historical Motion Picture Exhibit in the Los Angeles Museum"; W. E. Theisen, Honorary Curator, Motion Picture and Theatrical Arts Section, Los Angeles Museum, Los Angeles, Calif.

"The Kodachrome Process of Amateur Cinematography in Natural Color"; L. Mannes and L. Godowsky, Eastman Kodak Company, Rochester, N. Y.

"Introduction to the Photographic Possibilities of Polarized Light"; F. W. Tuttle and J. W. McFarlane, Eastman Kodak Company, Rochester, N. Y.

"Production Problems of the Writer Related to the Technician"; C. Wilson, Metro-Goldwyn-Mayer Studios, Culver City, Calif.

"Production Problems of the Actor Related to the Technician"; D. C. Jennings, Hollywood, Calif.

"The Inter-Relation of the Dramatic and Technical Aspects of Motion Pictures"; Prof. B. V. Morkovin, University of Southern California, Los Angeles, Calif.

"The Problems of a Motion Picture Research Library"; Miss H. G. Percey, Paramount Productions, Inc., Hollywood, Calif.

**8:00 p.m. Studio Visit.**

Visit to Walt Disney Studio, under the direction of Mr. W. Garity, *Studio Manager*; admission by registration card only; buses leave the Hotel promptly at 7:30 p.m.

## TUESDAY, MAY 21ST

**9:30 a.m. Studio Session.**

Report of the Committee on Standards and Nomenclature; E. K. Carver, *Chairman*.

"Process Cinematography"; J. A. Norling, Loucks & Norling, New York, N. Y.

"Calibrated Multi-Frequency Test Film"; F. C. Gilbert, Electrical Research Products, Inc., New York, N. Y.

"Some Background Considerations of Sound System Service"; J. S. Ward, Electrical Research Products, Inc., New York, N. Y.

"Modern Methods of Servicing Sound Motion Picture Equipment"; C. C. Aiken, RCA Manufacturing Company, Camden, N. J.

"Technic of Present-Day Motion Picture Photography"; V. E. Miller, Paramount Studios, Hollywood, Calif.

"Engineering Technic in Pre-Editing Motion Pictures"; M. J. Abbott, RKO Studios, Hollywood, Calif.

"The Analysis of Harmonic Distortion in a Photographic Sound by Means of an Electrical Frequency Analyzer"; O. Sandvik, V. C. Hall, and W. K. Grimwood, Eastman Kodak Company, Rochester, N. Y.

"Make-Up for Motion Pictures"; M. Firestine, Max Factor, Inc., Hollywood, Calif.

**1:30 p.m. Luncheon and Studio Visit.**

Luncheon on the lot, and inspection of Warner Bros. First National Studio; courtesy of the Electrical Department, under the direction of Mr. F. Murphy, *Chief Studio Engineer*. Admission by registration card only; buses leave the Hotel promptly at 1:00 p.m.

**8:00 p.m. Meeting of the Technicians Branch of the Academy of Motion Picture Arts and Sciences; Mr. K. MacGowan, presiding. Members and guests of the S. M. P. E. are cordially invited.**

"The Technicolor Process"; J. A. Ball, Technicolor Motion Picture Corporation, Hollywood, Calif.

"Psychology of Color"; Natalie Kalmus, Technicolor Motion Picture Corporation, Hollywood, Calif.

"Some Problems in Directing Color Motion Pictures"; R. Mamoulian, Hollywood, Calif.

Feature Motion Picture in Color: *Becky Sharp*.

## WEDNESDAY, MAY 22ND

**9:30 a.m. Laboratory Session.**

"The Argentometer—an Apparatus for Testing for Silver in a Fixing Bath"; W. Weyerts and K. C. D. Hickman, Eastman Kodak Company, Rochester, N. Y.

"Motion Picture Film Processing Laboratories in Great Britain"; I. D. Wratten, Kodak Limited, London, England.

"A Continuous Printer for Optically Reducing a Sound Record from 35-Mm. to 16-Mm. Film"; O. Sandvik, Eastman Kodak Company, Rochester, N. Y.

"Optical Printing"; L. Dunn, RKO Studios, Hollywood, Calif.

"Non-Uniformity in Photographic Development"; J. Crabtree, Bell Telephone Laboratories, Inc., New York, N. Y.

"A Dynamic Check on the Processing of Film for Sound Records"; F. G. Albin, United Artists Studios, Hollywood, Calif.

"New Agfa Motion Picture Film Types"; W. Leahy, Agfa Ansco Corporation, Hollywood, Calif.

"Some Sensitometric Studies of Hollywood Laboratory Conditions"; H. Meyer, Agfa Ansco Corporation, Hollywood, Calif.

### 2:30 p.m. Studio Visit.

A Visit to the Fox Hill Studio, under the direction of Mr. W. J. Quinlan, *Chief Studio Engineer*. Admission by registration card only; buses leave the Hotel promptly at 2:00 p.m.

### 7:30 p.m. Semi-Annual S. M. P. E. Banquet.

The semi-annual banquet and dance of the Society will be held in the New Supper Room of the Hotel. Addresses by eminent members of the motion picture industry. Tables reserved at the registration desk, for 8, 10, and 12 persons.

## THURSDAY, MAY 23RD

### 9:30 a.m. Projection and Studio Lighting Session.

Report of the Projection Practice Committee; J. O. Baker, *Chairman*.

Report of the Projection Screen Brightness Committee; C. Tuttle, *Chairman*.

"The Relation between Projector Illumination and Screen Size"; D. Lyman, Eastman Kodak Company, Rochester, N. Y.

"The Optical Efficiency of Mirror Guards"; W. B. Rayton, Bausch & Lomb Optical Company, Rochester, N. Y.

"The Photoelectric Cell and Its Use in Sound Motion Pictures"; M. F. Jameson, Bell Telephone Laboratories, Inc., New York, N. Y.

Report of the Studio Lighting Committee; R. E. Farnham, *Chairman*.

"The Radiant Energy Delivered on Motion Picture Sets from Carbon Arc Studio Light Sources"; F. T. Bowditch and A. C. Downes, National Carbon Company, Cleveland, Ohio.

"The Photographic Effectiveness of Carbon Arc Studio Light Sources"; F. T. Bowditch and A. C. Downes, National Carbon Company, Cleveland, Ohio.

"Lighting for Technicolor Motion Pictures"; C. W. Handley, National Carbon Company, Los Angeles, Calif.

"A New Wide-Range Spot Lamp"; E. C. Richardson, Mole-Richardson, Inc., Hollywood, Calif.

"Sources of Direct Current for Non-Rotating High-Intensity Reflect-Arc Lamps"; C. C. Dash, Hertner Electric Company, Cleveland, Ohio.

### 2:00 p.m. Sound and Standardization Session.

Interim Reports of Academy Committees on the Release Print and Screen Brightness; G. S. Mitchell, *Manager*, Research Council, Academy of Motion Picture Arts and Sciences.

- "The Technical Aspects of Recording Music for Motion Pictures"; R. H. Townsend, Fox Film Corporation, Hollywood, Calif.
- "A Device for Automatically Controlling the Balance between Recorded Sounds"; W. A. Mueller, Warner Bros. First National, Burbank, Calif.
- "Improvements in Play-Back Disk Recording"; G. M. Best, Warner Bros. First National, Burbank, Calif.
- "The Projection Background Process"; F. Jackman, Warner Bros. First National, Burbank, Calif.

**2:30 p.m. California Institute of Technology.**

A visit to the Institute, under the direction of Dean F. W. Hinrichs, Jr.; inspection of the astronomical, aeronautic, and high-voltage laboratories. Admission by registration card only; buses leave the Hotel for Pasadena promptly at 1:30 p.m. -a beautiful scenic trip.

**8:00 p.m. Studio Session.**

- Report of the Sound Committee; P. H. Evans, *Chairman*.
- "Newsreel Standardization"; J. A. Battle, Electrical Research Products, Inc. New York, N. Y.
- "Non-Directional Moving-Coil Microphone"; F. F. Romanow and R. N. Marshall, Bell Telephone Laboratories, Inc., New York, N. Y.
- "Wide-Range Reproduction in Theaters"; J. P. Maxfield and C. Flannagan, Electrical Research Products, Inc., New York, N. Y.
- "Optical Printing of 35-Mm. Sound Records"; G. L. Dimmick, RCA Manufacturing Company, Camden, N. J.

**FRIDAY, MAY 24TH**

**9:30 a.m. Sound and Acoustics Session.**

- "Sixteen-Mm. Negative-Positive and Grain"; D. Norwood, Lt., U. S. Army Air Corps, Chanute Field, Rantoul, Ill.
- "Modern Instruments for Acoustical Studies"; E. C. Wentz, Bell Telephone Laboratories, Inc., New York, N. Y.
- "Principles of Measurement of Room Acoustics"; E. C. Wentz, Bell Telephone Laboratories, Inc., New York, N. Y.
- "Recent Developments in Architectural Acoustics"; V. O. Knudsen, University of California, Los Angeles, Calif.
- "Studio Acoustics"; M. Rettinger, Pacific Insulation Company, Los Angeles, Calif.
- "Technical Considerations of the High-Fidelity Reproducer"; E. D. Cook, RCA Manufacturing Company, Camden, N. J.
- "Development and Design of the High-Fidelity Reproducer"; F. J. Loomis and E. W. Reynolds, RCA Manufacturing Company, Camden, N. J.

**2:00 p.m. General Session.**

- "Technical Aspects of the Motion Picture"; A. N. Goldsmith, New York, N. Y.
- "The Contribution of Dr. Lee deForest to the Electronic and Motion Picture Arts"; G. A. Chambers, Eastman Kodak Company, Hollywood, Calif.
- "The History of the Talking Picture"; W. E. Theisen, Hollywood, Calif.

**Apparatus Symposium**

- "Three New Kodascopes"; N. Green, Eastman Kodak Company, Rochester, N. Y.
- "A Continuous Film Camera for High-Speed Photography"; C. T. Burke, General Radio Company, Cambridge, Mass.
- "A Professional 16-Mm. Projector with Intermittent Sprocket"; H. A. DeVry, Herman A. DeVry, Inc., Chicago, Ill.
- "Arc Supply Generator for Use with Suprex Carbons"; O. S. Imes, Century Electric Company, St. Louis, Mo.
- "The Akers 35-Mm. Hand Camera"; W. Blunel, Akers Camera Company, Hollywood, Calif.
- "A Sound Reduction Printer"; O. B. Depue, Chicago, Ill.
- "A 35-Mm. Automatic Daylight Sound Motion Picture Projector"; A. B. Scott, SCK Corporation, Hollywood, Calif.
- "Vitachrome Diffusionlite System and Lamps, Their Uses and Applications"; A. C. Jenkins, Vitachrome, Inc., Los Angeles, Calif.
- "The Use of Cinematography in Aircraft Flight Testing"; F. H. Colbohm, Douglas Aircraft Company, Inc., Santa Monica, Calif.
- "The Use of Motion Pictures for Human Power Measurements"; J. M. Albert, Chas. E. Bedaux Company, San Francisco, Calif.
- "The Motion Picture in Japan"; Y. Osawa, J. Osawa and Company, Ltd., Kyoto, Japan.
- "The Motion Picture Industry in India"; G. D. Lal, Delhi, India.

**8:00 p.m. Sound Session.**

- "Recording Music for Motion Pictures"; M. C. Batsel, RCA Manufacturing Company, Camden, N. J.
- "Analysis of the Distortion Resulting from Sprocket-Hole Modulation"; E. W. Kellogg, RCA Manufacturing Company, Camden, N. J.
- "A Comparison of Variable-Density and Variable-Width Sound Records"; E. W. Kellogg, RCA Manufacturing Company, Camden, N. J.
- "A Consideration of Some Special Methods of Re-Recording"; E. D. Cook, RCA Manufacturing Company, Camden, N. J.
- "Characteristics of the Photophone Light-Modulating System"; L. T. Sachtleben, RCA Manufacturing Company, Camden, N. J.
- "Mechanographic Recording of Motion Picture Sound-Track"; J. A. Miller, Miller Film, Inc., New York, N. Y.
- "Application of Vertical-Cut Recording to Sound Pictures"; K. F. Morgan, Electrical Research Products, Inc., Hollywood, Calif.

This is a tentative program and, as such, is subject to change. The Society is not responsible for statements made by the authors.

The expenses incident to trips to studios and other points of interest in connection with this program are to be borne by the individual members.