

JOURNAL

of the Society of Motion Picture and Television Engineers

Publication Office: 20th and Northampton Streets, Easton, Pa.

OFFICERS

President, 1955-56

JOHN G. FRAYNE, 6601 Romaine St., Hollywood 38, Calif.

Executive Vice-President, 1955-56

BARTON KREUZER, Radio Corporation of America, Camden, N.J.

Past-President, 1955-56

HERBERT BARNETT, Pine Plains, N.Y.

Engineering Vice-President, 1955-56

AXEL G. JENSEN, Bell Telephone Laboratories, Inc., Murray Hill, N.J.

Editorial Vice-President, 1955-56

NORWOOD L. SIMMONS, 6706 Santa Monica Blvd., Hollywood 38, Calif.

Financial Vice-President, 1955

JOHN W. SERVIES, 92 Gold St., New York 38, N.Y.

Convention Vice-President, 1955-56

BYRON ROUDABUSH, 1226 Wisconsin Ave., Washington 7, D.C.

Secretary, 1955-56

EDWARD S. SEELEY, 161 Sixth Ave., New York 13, N.Y.

Treasurer, 1954-55

GEO. W. COLBURN, 164 North Wacker Dr., Chicago 6, Ill.

Governors, 1954-55

FRANK N. GILLETTE, Manville Lane, Pleasantville, N.Y.
LORIN D. GRIGNON, 1427 Warnall Ave., Los Angeles 24, Calif.
RALPH E. LOVELL, 2554 Prosser Ave., W. Los Angeles 64, Calif.
GARLAND C. MISENER, Ansco, Binghamton, N.Y.
RICHARD O. PAINTER, 738 E. Liberty, Milford, Mich.
REID H. RAY, 2269 Ford Rd., St. Paul 1, Minn.

Governors, 1955-56

GORDON A. CHAMBERS, 343 State St., Rochester 4, N.Y.
JOHN W. DUVALL, 7051 Santa Monica Blvd., Hollywood 38, Calif.
LLOYD T. GOLDSMITH, Warner Brothers Pictures, Inc., Burbank, Calif.
GEORGE LEWIN, 1573 E. 35 St., Brooklyn 34, N.Y.
W. WALLACE LOZIER, National Carbon Co., Fostoria, Ohio
MALCOLM G. TOWNSLEY, 7100 McCormick Rd., Chicago 45, Ill.

Governors, 1955

PHILIP G. CALDWELL, 6285 Sunset Blvd., Hollywood, Calif.
EVERETT MILLER, 94 Rossmore Ave., Bronxville, N.Y.
JAMES L. WASSELL, Ansco, 247 E. Ontario St., Chicago 11, Ill.

Subsection Chairmen

BEN AKERMAN, Sta. WGST, 2646 Cheshire Bridge Rd., N.E., Atlanta 5, Ga.
ERNEST D. GAW, 501 Chickasaw Trace, Grand Prairie, Texas
WILLIAM A. PALMER, 1452 Hamilton Ave., Palo Alto, Calif.

Student Chairmen

HAL ARTHUR (USC), 8659 Nash Dr., Los Angeles 46, Calif.
MORTON A. DAVID (NYU), 57 Seventh Ave., Brooklyn 17, N.Y.

Editorial Office

55 West 42d St., New York 36, New York

Editor—VICTOR H. ALLEN

Advertising Manager—DENIS A. COURTNEY

Board of Editors

Chairman—PIERRE MERTZ,
463 West St., New York 14, New York

D. MAX BEARD	CLYDE R. KEITH
GERALD M. BEST	GLENN E. MATTHEWS
GEORGE R. CRANE	C. DAVID MILLER
HAROLD E. EDGERTON	JOHN A. NORLING
CARLOS H. ELMER	HERBERT W. PANGBORN
CHARLES R. FORDYCE	BERNARD D. PLAKUN
LORIN D. GRIGNON	R. T. VAN NIMAN
A. M. GUNDELFINGER	JOHN H. WADDELL
CHARLES W. HANDLEY	DEANE R. WHITE
ARTHUR C. HARDY	CHARLES W. WYCKOFF

Papers Committee Chairman

RALPH E. LOVELL, 2554 Prosser Ave., W. Los Angeles
64, Calif.

Subscriptions to nonmembers, \$12.50 a year; single copies, \$2.00 for one-part issues, \$2.50 for special two-part issues. A 10% discount is allowed to individual members and accredited agencies on orders for subscriptions and single copies. A list of priced and gratis publications is available. Order from the Society's Headquarters Office, 55 West 42nd St., New York 36.

THE SOCIETY is the growth of thirty-eight years of achievement and leadership. Its members are engineers and technicians skilled in every branch of motion-picture film production and use, in television, and in the many related arts and sciences. Through the Society they are able to contribute effectively to the technical advance of their industry. The Society was founded in 1916 as the Society of Motion Picture Engineers and was renamed in 1950.

Membership in Sustaining, Active, Associate or Student grades is open to any interested person according to his qualifications. Information about membership, technical activities and standards and test films for the industry is available from Society Headquarters.

SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS

Headquarters Office: 55 West 42d St., New York 36, N.Y.

Telephone: LOngacre 5-0172

Executive Secretary: **BOYCE NEMEC**

Entered as second-class matter January 15, 1930, at the Post Office at Easton, Pa., under the Act of March 3, 1879, and published monthly. Copyright, 1955, by the Society of Motion Picture and Television Engineers, Inc. Permission to republish Journal text material must be obtained in writing from the Society's Headquarters Office, 55 West 42d St., New York 36. The Society is not responsible for statements of contributors. Printed by Mack Printing Company, Easton, Pa.