

JOURNAL of the SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS

PUBLICATION OFFICE TWENTIETH AND NORTHAMPTON STREETS, EASTON, PA

Officers

President, 1955-56
JOHN G. FRAYNE, Westrex Corp., 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, General Precision Equipment Corp., 92 Gold St., New York 38, N.Y.

Engineering Vice-President, 1956-57
AXEL G. JENSEN, Bell Telephone Laboratories, Inc., Murray Hill, N.J.

Editorial Vice-President, 1955-56
NORWOOD L. SIMMONS, Eastman Kodak Co., 6706 Santa Monica Blvd., Hollywood 38, Calif.

Financial Vice-President, 1956-57
JOHN W. SERVIES, National Theatre Supply, 92 Gold St., New York 38, N.Y.

Convention Vice-President, 1955-56
BYRON ROUDABUSH, Byron, Inc., 1226 Wisconsin Ave., N.W., Washington, D.C.

Sections Vice-President, 1956-57
ETHAN M. STIFLE, Eastman Kodak Co., 342 Madison Ave., New York 17, N.Y.

Secretary, 1955-56
WILTON R. HOLM, E. I. du Pont de Nemours & Co., Parlin, N.J.

Treasurer, 1956-57
GEO. W. COLBURN, Geo. W. Colburn Laboratory, Inc., 164 North Wacker Dr., Chicago 6, Ill.

Governors, 1956-57
FRANK N. GILLETTE, General Precision Laboratory, Inc., 63 Bedford Rd., Pleasantville, N.Y.
LORIN D. GRIGNON, Twentieth Century-Fox Film Corp., Beverly Hills, Calif.
RALPH E. LOVELL, National Broadcasting Co., 2554 Prosser Ave., W. Los Angeles 64, Calif.
GARLAND C. MISENER, Capital Film Laboratories, Inc., 1905 Fairview Ave., N.E., Washington 2, D.C.
RICHARD O. PAINTER, General Motors Proving Ground, Milford, Mich.
REID H. RAY, Reid H. Ray Film Industries, Inc., 2269 Ford Parkway, St. Paul 1, Minn.

Governors, 1955-56
GORDON A. CHAMBERS, Eastman Kodak Co., 343 State St., Rochester 4, N.Y.
JOHN W. DUVALL, E. I. du Pont de Nemours & Co., 7051 Santa Monica Blvd., Hollywood 38, Calif.
LLOYD T. GOLDSMITH, Warner Brothers Pictures, Inc., Burbank, Calif.
GEORGE LEWIN, Army Pictorial Center, 35-11 35 Ave., Long Island City, N.Y.
W. WALLACE LOZIER, National Carbon Co., Cleveland, Ohio.
MALCOLM G. TOWNSLEY, Bell & Howell Co., 7100 McCormick Rd., Chicago 45, Ill.

Governors, 1956
GEORGE H. GORDON, Eastman Kodak Co., 342 Madison Ave., New York 17, N.Y.
KENNETH M. MASON, Eastman Kodak Co., 137 N. Wabash Ave., Chicago 2, Ill.
EDWIN W. TEMPLIN, Westrex Corp., 6601 Romaine St., Hollywood 38, Calif.

Section Chairmen
BEN AKERMAN, Sta. WGST, 2646 Cheshire Bridge Rd. N.E., Atlanta 5, Ga.
LEO DINER, Leo Diner Films, 332 Golden Gate Ave., San Francisco, Calif.
ERNEST D. GAW, Interstate Circuit, Inc., 501 Chickasaw Trace, Grand Prairie, Texas.
A. C. ROBERTSON, Eastman Kodak Co., Kodak Park Bldg. 14, Rochester 4, N.Y.

Student Chairmen
BYRL L. SIMS (USC), Dept. of Cinema, Univ. Park, Los Angeles 7, Calif.
ARNOLD FEDERBUSH (NYU), 244 West 74 St., New York, 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

HARLAN L. BAUMBACH	W. I. KISNER
D. MAX BEARD	GLENN E. MATTHEWS
GERALD M. BEST	C. DAVID MILLER
GEORGE R. CRANE	JOHN A. NORLING
HAROLD E. EDGERTON	HERBERT W. PANGBORN
CARLOS H. ELMER	BERNARD D. PLAKUN
CHARLES R. FORDYCE	R. T. VAN NIMAN
LLOYD T. GOLDSMITH	JOHN H. WADDELL
LORIN D. GRIGNON	W. C. WINTRINGHAM
A. M. GUNDELFINGER	DEANE R. WHITE
CHARLES W. HANDLEY	CHARLES W. WYCKOFF
RUSSELL C. HOLSLAG	EMERSON YORKE
CLYDE R. KEITH	

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 over forty 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. Cables: Somopict Telephone: LOngacre 5-0172

Executive Secretary: CHARLES S. STODTER

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, 1956, 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.