

Journal of the Society of Motion Picture Engineers

VOLUME 53

NOVEMBER 1949

NUMBER 5

	PAGE
Motion Pictures in the Guided-Missile Program.....	II. M. COBB 431
High-Speed Motion Picture Photography.....	440
High-Speed Motion Pictures by Multiple-Aperture Focal-Plane Scanners..	FORDYCE E. TUTTLE 451
Improvements in High-Speed Motion Pictures by Multiple-Aperture Focal-Plane Scanners.....	FORDYCE E. TUTTLE 462
Twenty-Lens High-Speed Camera.....	CHARLES W. WYCKOFF 469
Half-Million Stationary Images per Second with Refocused Revolving Beams.....	C. D. MILLER 479
Very-High-Speed Drum-Type Camera...K. M. BAIRD AND D. S. L. DURIE	489
Design of Rotating Prisms for High-Speed Cameras...JOHN H. WADDELL	496
Recent British Equipment and Technique for High-Speed Cinematography	G. A. JONES AND E. D. FYLES 502
Bowen Ribbon-Frame Camera.....	E. E. GREEN AND T. J. OBST 515
Physical Optic Analysis of Image Quality in Schlieren Photography.....	H. JEROME SHAFER 524
Exposure Meter for High-Speed Photography.....	E. T. HIGGONS 545
Techniques in High-Speed Cathode-Ray Oscillography.....	C. BERKLEY AND H. P. MANSBERG 549
Measuring Shock with High-Speed Motion Pictures.....	J. T. MULLER 579
High-Speed Motion Pictures in Full Color.....	FRANKLIN M. TYLEE 588
Water-Cooled High-Pressure Mercury-Discharge Lamp for Direct-Current Operation.....	W. ELENBAAS AND E. W. VAN HEUVEN 594
New View Finder for the Fastax Camera.....	ALFRED L. LIDFELDT 598
Report of High-Speed Photography Committee.....	602
A. G. D. West.....	604
Book Reviews:	
"The Blue Book of Audio-Visual Equipment," Published by Business Screen Magazine and The National Association of Visual Education Dealers	
Reviewed by Paul R. Wendt.....	605
"Look and See," by Colin Beale	
Reviewed by Paul R. Wendt.....	605
Meetings of Other Societies.....	606
New Products.....	607
Employment Service.....	608

ARTHUR C. DOWNES
Chairman
Board of Editors

HELEN M. STOTE
Editor

NORWOOD L. SIMMONS
Chairman
Papers Committee

Subscription to nonmembers, \$12.50 per annum; to members, \$6.25 per annum, included in their annual membership dues; single copies, \$1.50. Order from the Society's General Office. A discount of ten per cent is allowed to accredited agencies on orders for subscriptions and single copies. Published monthly at Easton, Pa., by the Society of Motion Picture Engineers, Inc. Publication Office, 20th & Northampton Sts., Easton, Pa. General and Editorial Office, 342 Madison Ave., New York 17, N. Y. Entered as second-class matter January 15, 1930, at the Post Office at Easton, Pa., under the Act of March 3, 1879.

Copyright, 1949, by the Society of Motion Picture Engineers, Inc. Permission to republish material from the JOURNAL must be obtained in writing from the General Office of the Society. Copyright under International Copyright Convention and Pan-American Convention. The Society is not responsible for statements of authors or contributors.