

# TRANSACTIONS

## OF THE

# SOCIETY OF

# MOTION PICTURE

# ENGINEERS

### CONTENTS

	Page
Officers, Committees, Membership and Constitution.....	3-17
President's Address.....	18
Motion Pictures in Education. By E. L. Crandall.....	22
High Speed Motion Pictures, without especially designed camera. By J. H. McNabb.....	32
Cine Light. By Douglas E. Brown.....	40
Mazda Lamps for Projection. By J. A. Summers.....	54
The Phonofilm. By Dr. Lee DeForest.....	61
Radio Photographs, Movies and Vision. By C. Francis Jenkins.....	78
Photographic Recording and Photoelectric Reproduction of Sound. By Dr. J. Tykocinski-Tykociner.....	90
Problems of the Film Finishing Laboratory. By W. R. Rothacker and Joseph Aler.....	120
Testing Motion Picture Machines for Naval Service. By Lieut. Com. C. S. Gillette.....	126
Heat Protection of Motion Picture Film. By E. D. Tillyer.....	137
Efficiency in Carbon Arc Projection. By W. R. Mott and W. C. Kunzmann.....	143
Uniform Development of Film. By F. F. Renwick.....	159
Development of Motion Picture Film by Reel and Tank Systems. By J. I. Crabtree.....	163
A Split Aspheric Condensing Lens. By Frank Benford.....	212
Symposium on Portable Projectors	
Beacon Projector Co.....	225
The Discrola. C. Francis Jenkins.....	234
The Campro. A. R. DeTartas.....	239
Cine Kodak and Kodoscope. C. E. K. Mees.....	244
Pathoscope. Willard B. Cook.....	266
Spirograph. Charles Urban.....	259
A Sub-Standard Film. By C. E. K. Mees.....	252
The Motion Picture a Practical Feature of the Home. By A. F. Victor.....	267
Reports of Committees.....	267-323
<b>SPECIAL ANNOUNCEMENTS</b> .....	324
Index of Papers by Subject and Author, 1916 to 1923.....	1
Advertising Section.....	325

*Number Sixteen*

MEETING OF MAY 7-8-9-10

ATLANTIC CITY, N. J.