

---

---

# JOURNAL OF THE SOCIETY OF MOTION PICTURE ENGINEERS

---

Vol 49

JULY 1947

No. 1

---

## CONTENTS

	PAGE
Report of the President	LOREN L. RYDER 1
A Combination Scoring, Rerecording, and Preview Studio	DANIEL J. BLOOMBERG, W. O. WATSON, AND MICHAEL RETTINGER 3
An Analysis of Low-Reflection Coatings as Applied to Glass	W. P. STRICKLAND 27
Recent Developments of Super-High-Intensity Carbon-Arc Lamps	M. A. HANKINS 37
A Newly Developed Light Modulator for Sound Recording	G. L. DIMMICK 48
The Physical Properties and the Practical Application of the Zommar Lens	FRANK G. BACK 57
Special Cameras and Flash Lamps for High-Speed Underwater Photography	ROBERT T. KNAPP 64
Photographing Things to Come	M. W. WARREN 82
A Stabilization System by Rate Measurement	AVERY LOCKNER 88
SMPE Staff Changes	93

---

Copyrighted, 1947, 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. The Society is not responsible for statements of authors or contributors.

Indexes to the semiannual volumes of the JOURNAL are published in the June and December issues. The contents are also indexed in the *Industrial Arts Index* available in public libraries.

---