



July 1983

SMPTE Journal

VOLUME 92 • NUMBER 7

EXECUTIVE

Maurice L. French
Editorial Vice-President
Calvin M. Hotchkiss
Chairman/ Board of Editors
Lynette Robinson
Executive Secretary

EDITORIAL STAFF

Jeffrey B. Friedman
Editor
Joyce R. Hurwitz
Associate Editor
Anita J. Myers
Assistant Editor
Rae Hargrave
Senior Writer
Mathew V. Kuriakose
Production Supervisor
Mary V. Connolly
Editorial/ Program Coordinator
MaryAnn Frusciante
Production Coordinator

ADVERTISING

Dorothy Smith
Manager, Exhibits and Advertising
Jean Danielson
Advertising Secretary

ENGINEERING

Alex E. Alden
Manager of Engineering
Barry C. Detwiler
Television Engineer
Stanislav Dickinson
Motion Picture Engineer

MEMBERSHIP

Josephine LaVecchia
Manager, Membership Services

ARTICLES

- 716 Film and Video: A Producer's Viewpoint (Point of View) □ *Paul Mareth*
- 719 Compatible Systems for High-Quality Television
R. N. Jackson and M. J. J. C. Annegarn
- 724 Innovations in ENG Recording Equipment □ *Thomas Mehrens*
- 729 A High-Speed Television System for Motion Analysis □ *James A. Bixby*
- 735 Audiovisual Environments and Equipment Standards for Education
Alan J. Powell
- 739 Researching and Restoring Pioneer Talking Pictures: The 70th Anniversary of the
Theatrical Release of Kinetophone □ *Art Shifrin*
- 752 On the Origin of High-Frequency Biasing for Magnetic Audio Recording
Heinz Thiele
- 755 Theater Quality Evaluation Program □ *Kenneth M. Mason and John P. Pytlak*
- 760 Biographical Notes: Edward J. Blasko, SMPTE Governor Central Region 1983-84;
Sherwin H. Becker, SMPTE Governor Central Region 1982-83; and John F. X.
Browne, Jr., SMPTE Governor Central Region 1983-84.

SMPTE REPORTS

- 762 Video Tape Recording Glossary
- 767 SMPTE Plans 18th Annual Television Conference
- 768 125th SMPTE Technical Conference and Equipment Exhibit
- 769 Report on NAB 61st Annual Convention
- 776 Minutes of Special Meeting of Voting Members of SMPTE

SMPTE NEWS AND DEPARTMENTS

- | | | |
|----------------------|------------------|----------------|
| 714 Calendar | 783 News | 791 Ad Index |
| 715 Highlights | 784 Obituaries | 792 Classified |
| 778 Section Meetings | 786 New Products | |

STANDARDS AND RECOMMENDED PRACTICES

- 794 Approved American National Standards
- 796 SMPTE Recommended Practices
- 798 Proposed SMPTE Recommended Practices
- 800 Approved International Standard

SMPTE JOURNAL (ISSN: 0036-1682) published monthly by the Society of Motion Picture and Television Engineers, 862 Scarsdale Avenue, Scarsdale, NY 10583. Second-class postage paid at Scarsdale, N.Y., and at additional mailing office. Copyright © 1983 by the Society of Motion Picture and Television Engineers, Inc. All rights reserved. Printed in the U.S.A. No part of this issue may be reproduced without written permission of the publisher. Statements and opinions expressed in articles or editorials in the *SMPTE JOURNAL* are expressions of contributors and do not necessarily represent the policies or opinions of the Society. **Advertisements** appearing in this publication are the sole responsibility of the advertiser. **Membership** in the Society is open to any individual according to that person's qualifications. The Society's Headquarters welcomes inquiries from individuals who may apply for these grades: Active (annual dues \$50.00), Associate (annual dues \$50.00), and Student (annual dues \$15.00). All members receive the *SMPTE JOURNAL*. **Subscriptions** are available to nonmembers. Annual rates: \$55.00 United States; \$55.00 plus \$10.00 postage elsewhere. Single issues, \$6.00. Subscription rates to students, \$17.00 United States; \$17.00 plus \$10.00 postage elsewhere. *JOURNALS* will be mailed overseas by *airmail printed matter* to members and subscribers at a surcharge of \$50.00 to Europe and \$65.00 to Asia (in addition to the rates listed above).