



SMPTE Journal[®]

VOL. 100, NO. 6

JUNE 1991

EXECUTIVE

Frank J. Haney
Editorial Vice-President

Frederick M. Remley
Chairman/Board of Editors

Lynette Robinson
Executive Director

EDITORIAL STAFF

Jeffrey Friedman
Editor

Joyce R. Hurwitz
Associate Editor

Elizabeth L. Ghaffari
Assistant Editor

Carol King
Assistant Editor

Mathew V. Kuriakose
Graphics/Production Supervisor

MaryAnn Frusciantie
Production Coordinator

Marilyn Waldman
Editorial/Program Coordinator

ADVERTISING/EXHIBITS

Alan Ehrlich
Advertising/Exhibits Manager

ENGINEERING

Sherwin H. Becker
Director of Engineering

Mark S. Hyman
Staff Engineer

Ferdinand V. Galli
Staff Engineer

ARTICLES

- The Sony PCL HDVS Production Facility
Hiroshi Tanaka and Laurence J. Thorpe 404
- Vision III Single-Camera Autostereoscopic Methods
Christopher A. Mayhew 416
- An Integrated Digital Production Suite
Ken Carson and Jason Danielson 423
- Closed Captioning in Real Time
Marc Okrand 427
- Motion Picture Directing
(SMPTE Classic Reprint, originally published 1928)
Cecil B. DeMille 432

SMPTE REPORT

- The 133rd Technical Conference and Equipment Exhibit
October 26-29, 1991, Los Angeles 438

SMPTE NEWS AND DEPARTMENTS

- | | |
|--------------------------------|-------------------------------------|
| Calendar 402 | Obituaries 448 |
| Highlights 403 | Professional Services 449 |
| Section Meetings 439 | Advertisers Index 450 |
| News 441 | Classified 450 |
| Engineering News 442 | Application |
| New Products 444 | for Membership 451 |
| Errata 446 | Sustaining Members 480 |

STANDARDS AND RECOMMENDED PRACTICES

- Approved SMPTE Recommended Practices 455
- RP 135-1990, Use of Binary User Groups in Motion-Picture Time and Control Codes; RP 136-1990, Time and Control Codes for 24, 25 or 30 Frame-per-Second Motion-Picture Systems; RP 141-1990, Background Acoustic Noise Levels in Theaters and Review Rooms; and RP 143-1990, Specifications for Type U Audio Level and Multifrequency Test Film for 35-mm Striped Four-Track Release Print Audio Reproducers, Magnetic Type*
- Proposed SMPTE Standards 464
- SMPTE 93, Motion-Picture Film (35-mm) - Perforated BH; and SMPTE 207M, Television - Digital Control Interface - Electrical and Mechanical Characteristics*
- Proposed SMPTE Recommended Practices 471
- RP 113, Supervisory Protocol for Digital Control Interface; and RP 139, Tributary Interconnection*

SMPTE Journal (ISSN: 0036-1682) published monthly by the Society of Motion Pictures and Television Engineers, 595 West Hartsdale Avenue, White Plains, NY 10607. Second-class postage paid at White Plains, N.Y., and at additional mailing office. Copyright © 1991 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 \$75.00 United States; \$75.00 plus \$10.00 postage elsewhere. Single issues, \$6.00 plus \$2.00 postage. *Journals* will be mailed overseas by airmail printed matter to subscribers at a surcharge of \$50.00 to Europe and \$65.00 to Asia (in addition to the subscription rates listed above).

POSTMASTER: Send change of address to *SMPTE Journal*, 595 West Hartsdale Avenue, White Plains, NY 10607-1824.