



FOUNDED 1916

**EXECUTIVE**

Edward P. Hobson  
*Editorial Vice-President*

LeRoy E. DeMarsh  
*Chairman/Board of Editors*

Frederick C. Motts  
*Executive Director*

**JOURNAL STAFF**

David J. M. Juhren  
*Director of Publications*

MaryAnn Frusciantie  
*Managing Editor*

Mathew V. Kuriakose  
*Production/Graphics Supervisor*

Dianne Ross Purrier  
*Associate Editor*

Marilyn Waldman  
*Advertising/Editorial/Program Coordinator*

**ENGINEERING**

Carlos V. Girod, Jr.  
*Director of Engineering*

Mark S. Hyman  
*Staff Engineer*

**MARKETING**

Linda Alexander  
*Marketing and Communications Manager*

**MEETINGS**

Dianne Gabriele  
*Meetings Manager*

Printed in the USA

# SMPTE Journal

VOL. 110, NO. 3

MARCH 2001

Web Site: <http://www.smpte.org> • E-Mail: [smpte@smpte.org](mailto:smpte@smpte.org)

**MESSAGE FROM THE SECTIONS VICE-PRESIDENT**

René Villeneuve .....123

**SMPTE REPORTS**

143rd Technical Conference and Exhibition  
New York, NY, November 4-7, 2001 .....126

SMPTE All-Day Seminar at NAB2001  
Las Vegas, NV, April 21, 2001 .....177

**TECHNICAL PAPERS**

Curved Color Separation Spaces for Blue Screen Matting  
*Yasushi Mishima* .....131

High-Performance Electro-optic Camera Prototype  
*Stephen A. Stough and William A. Hill* .....140

**APPLICATIONS/PRACTICES PAPER**

Interactive Television Content Authoring  
*Paul Mitchell* .....147

**TUTORIAL**

Analog Video 101 and 102 for All  
*Wayne McLachlan* .....151

**SMPTE NEWS AND DEPARTMENTS**

SMPTE Almanac by Michael Dolan .....178

Section Meetings .....180

Industry News .....181

Obituary .....182

Erratum .....182

Calendar .....182

New Products .....183

Books, Booklets, Brochures .....184

Professional Services .....187

Application for Membership .....188

Membership Renewal .....189

SMPTE Sustaining Member List .....190

SMPTE Sustaining Membership .....192

**STANDARDS AND RECOMMENDED PRACTICES**

Proposed SMPTE Standard .....159  
*SMPTE 336M, Television—Data Encoding Protocol using Key-Length-Value*

Proposed SMPTE Recommended Practices .....171  
*RP 131, Storage of Motion-Picture Films; RP 202, Video Alignment for MPEG-2 Coding*

*SMPTE Journal* (ISSN: 0036-1682) published monthly by the Society of Motion Picture and Television Engineers, 595 West Hartsdale Ave., White Plains, NY 10607. Periodicals postage paid at White Plains, N.Y., and at additional mailing office. Copyright ©2001 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. Subscription rates: SMPTE members, \$25.00 included in membership dues; Straight Subscription U.S., \$140.00; elsewhere, \$155.00; airmail \$195. Single copy, \$15.00 plus shipping. MEMBERSHIP in SMPTE is available according to qualifications at the following annual dues: Active Member, \$125.00; Student Member, \$25.00. All members receive the *SMPTE Journal* as part of membership.

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