



FOUNDED 1916

EXECUTIVE

Robert B. Kisor
Editorial Vice-President
LeRoy E. DeMarsh
Chairman/Board of Editors
Frederick C. Motts
Executive Director

JOURNAL STAFF

Mathew V. Kuriakose
Production/Graphics Supervisor
MaryAnn Frusciante
Production Editor
Dianne Ross Purrier
Assistant Editor
Marilyn Waldman
Advertising/Editorial/Program Coordinator

ENGINEERING

Carlos V. Girod, Jr.
Director of Engineering
Mark S. Hyman
Staff Engineer

MARKETING

Linda Alexander
Marketing Coordinator
Bryan Nella
Marketing Associate

MEETINGS

Ilisha Stier
Meeting Coordinator

COVER PHOTO:

Provided by Christopher Ward, Sarnoff Corp. See paper "Seamless Splicing for MPEG-2 Transport Stream Video Servers" on page 873.

Printed in the USA

SMPTE Journal®

VOL. 108, NO. 12

DECEMBER 1999

MESSAGE FROM THE SECTIONS VICE-PRESIDENT

Fung Fai Lam 842

SMPTE CONFERENCE

34th SMPTE Advanced Motion Imaging Conference
San Francisco, CA, February 3-5, 2000 844

NEWS & NOTES 849

OFFICERS AND GOVERNORS FOR THE YEAR 2000 851

HISTORICAL NOTE

Centennial of the Biograph Motion Picture System
D. Karl Malkames 857

TECHNICAL PAPERS

Digital Film Mastering
W. Huther, H. Tjabben, and D. J. Bancroft 859

Video Quality Assessment Using Objective Parameters
Based on Image Segmentation
A. Pessoa, A. Falcao, R. Nishihara, A. Silva, and R. Lotufo 865

APPLICATIONS/PRACTICES PAPERS

Seamless Splicing for MPEG-2 Transport Stream Video Servers
C. Ward, C. Pecota, X. Lee, and G. Hughes 873

Living with Video Servers in a Digital Broadcast Facility
Michael A. Pusateri 880

SMPTE NEWS AND DEPARTMENTS

Section Meetings	885
News	886
Calendar	887
New Products	888
Professional Services	889
Engineering News	890
Classified	891
Application for Membership	916
Membership Renewal	917
SMPTE Sustaining Membership	919
Sustaining Membership List	920
INDEX TO VOL. 108	893

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 © 1999 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, \$20.00 included in membership dues; nonmembers, U.S., \$125.00; elsewhere, \$140.00; airmail charge in addition to nonmember rates is \$65.00. Single copy, \$10.00 plus shipping. MEMBERSHIP in SMPTE is available according to qualifications at the following annual dues: Active Member, \$95.00; 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.