

SMPTÉ MOTION IMAGING JOURNAL

VOL. 120, NO. 7, October 2011



EXECUTIVE

Paul J. Hearty

Editorial Vice President

Glen Pensinger

Chairman/Board of Editors

Barbara H. Lange

Executive Director

JOURNAL STAFF

Joel Welch

Director of Professional

Development

914-205-2379

484-702-7339

Dianne Ross Purrier

Managing Editor

914-205-2377

Jeffrey Victor

Advertising Manager

847-367-4073

SMPTÉ Motion Imaging Journal (ISSN: 1545-0279) published 8 times per year by the Society of Motion Picture and Television Engineers, 3 Barker Ave., White Plains, NY 10601. Periodicals postage paid at White Plains, NY, and at additional mailing office.

Copyright © 2011 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 SMPTÉ Motion Imaging Journal are expressions of contributors and do not necessarily represent the policies or opinions of the Society.

MEMBERSHIP in SMPTÉ is available according to qualifications. A complete list of membership types and benefits is available at www.smpte.org.

Advertisements appearing in this publication are the sole responsibility of the advertiser.

Subscription rates: SMPTÉ members, \$27.00 included in membership dues; Straight Subscription U.S./Canada, \$155.00; Non-U.S./Canada, \$170.00 (shipping included); Single copy, \$15.00, plus shipping.

SMPTÉ owns the copyrights to all published material, unless otherwise stated.

SMPTÉ Motion Imaging Journal is registered with Canada Post: CPM # 41003019.

POSTMASTER: Send change of address to SMPTÉ Motion Imaging Journal, 3 Barker Ave., White Plains, NY 10601.

Printed in the USA

Publication Design by Cavich Creative, LLC
www.cavich.com

Reports

Message from the Executive Director Barbara H. Lange	6
SMPTÉ 2011 Annual Technical Conference & Exhibition	10
2011 SMPTÉ Fellows	18
2011 Honors and Awards	20

Technical Papers

Establishing a Consistent Baseline Reference for High-Definition Cameras D.P. Adams and T.L. Scott	26
I Can See Clearly Now: A New Test Pattern for the Digital Age Norman Hurst	31
The Performance of Progressive HD Video in the Multiscreen World Mike Knee	38
Optical SDI Networks: Evaluating Robustness in Your SDI Network Alex Bond and Sam Pirritano	44
Pathological Check Codes and the SMPTÉ Scrambler in the HD Age David Brown and John Hudson	49

Departments

SMPTÉ Sustaining Members	8
SMPTÉ Marketplace	60
SMPTÉ Almanac Michael Dolan	61
SMPTÉ Sustaining Membership Application	63
SMPTÉ Membership Application	64