



# Membership Application

Office Use Only

I wish to join SMPTE as a new (check one)

Active Member: \$80.00

Student Member: \$25.00

## Personal Information

First Name \_\_\_\_\_ Middle \_\_\_\_\_ Last \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip/Country \_\_\_\_\_

Date of Birth \_\_\_\_\_

Please send the *SMPTE Journal* to my  Home  Office  
Please send annual invoice to my  Home  Office  
During the months of \_\_\_\_\_ to \_\_\_\_\_ send  
the *Journal* to this address:

\_\_\_\_\_  
\_\_\_\_\_

## Student Members

**Note:** Students must transfer to Active Membership upon graduation. Maximum number of years as student, is 6.

Name of School \_\_\_\_\_ Date of Anticipated Graduation \_\_\_\_\_

Name of Faculty Advisor \_\_\_\_\_ Faculty Advisor Tel. No \_\_\_\_\_

## SMPTE Job Classification

Please check one category in each column that best describes what you do.

- | Job Function  | Business Category  |
|---|--|
| 01 <input type="checkbox"/> Management                | 09 <input type="checkbox"/> TV Station/Network                                   |
| 02 <input type="checkbox"/> Engineering/<br>Technical | 10 <input type="checkbox"/> Non-broadcast TV (cable,<br>industrial, etc.)        |
| 03 <input type="checkbox"/> Production                | 11 <input type="checkbox"/> Production Facility                                  |
| 04 <input type="checkbox"/> Post-Production           | 12 <input type="checkbox"/> Post-Production Facility                             |
| 05 <input type="checkbox"/> Consultant                | 13 <input type="checkbox"/> Manufacturer, Dealer,<br>Distributor, Rental House   |
| 06 <input type="checkbox"/> Sales/Marketing           | 14 <input type="checkbox"/> Educational Institution, Gov't,<br>Research Facility |
| 07 <input type="checkbox"/> Educator                  | 15 <input type="checkbox"/> Satellites, Telecommunications                       |
| 08 <input type="checkbox"/> Other (specify) _____     | 16 <input type="checkbox"/> Computers, Multimedia                                |
|   | 17 <input type="checkbox"/> Other (specify) _____                                |

## Professional Information

Company Name \_\_\_\_\_

Title \_\_\_\_\_

Street Address \_\_\_\_\_

Mail Stop or Postal Code \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip/Country \_\_\_\_\_

Office Phone \_\_\_\_\_ Office Fax \_\_\_\_\_

E-Mail \_\_\_\_\_

## Payment Method:

Visa  MC  Amex  Check (payable to SMPTE)

Card No. \_\_\_\_\_

Exp. \_\_\_\_\_ Signature \_\_\_\_\_

I hereby make application for SMPTE membership and agree to be governed by the Society's Constitution and Bylaws.

Signature \_\_\_\_\_ Date \_\_\_\_\_

If recruited by a SMPTE Member, please provide recruiter's name:

Recruiter's Name \_\_\_\_\_

Membership # \_\_\_\_\_

## Return with payment to:

SMPTE Membership Dept.  
595 West Hartsdale Ave.,  
White Plains, NY 10607  
Tel: (914) 761-1100 • Fax (914) 761-3115  
<http://www.smpte.org>

*Note: \$20.00 of dues is allocated for your subscription to the SMPTE Journal and is non-deductible.*

# new smpte book

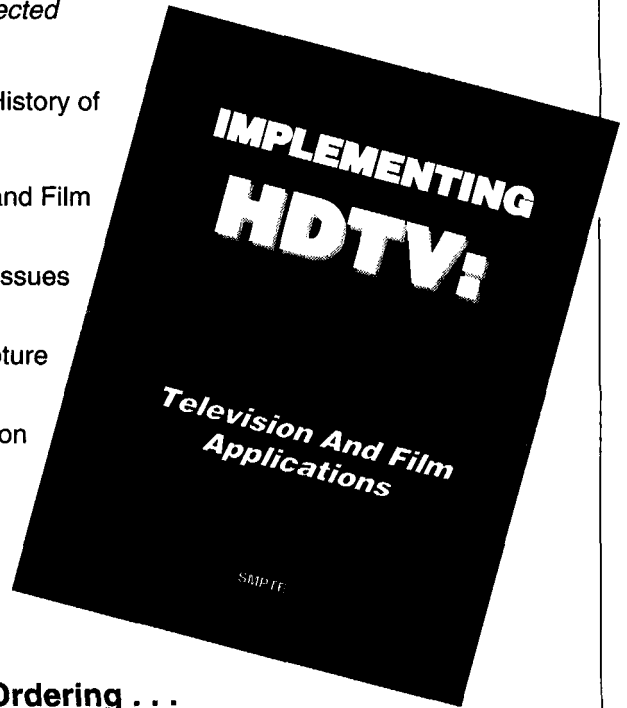
## Implementing HDTV: Television and Film Applications

The Society of Motion Picture and Television Engineers (SMPTE) has provided leadership in the development of essential standards in the field of motion imaging for over 80 years. Beginning in 1916, with the development of standards for film, and moving later into electronic scanning formats, the Society's mission was (and is) to develop the necessary standards to enable content creation, program production, distribution, and interchange. In serving as the bridge between the providers of technology and the creative community that uses the technology, SMPTE is not limited to setting standards. It also provides educational services to support the users in understanding the technology that is available to them and a forum for discussions on the issues and solutions to problems.

This volume, **Implementing HDTV: Television and Film Applications**, is intended as a tutorial to complement the set of SMPTE high-definition television (HDTV) standards. It is a compilation of papers published in the *SMPTE Journal*.

Featuring selected papers on:

- A Brief History of HDTV
- HDTV and Film
- System Issues
- Live Capture
- Production
- Storage



### For Easy Ordering . . .

A complete list of the publications available from the Society can now be accessed via the Internet, with an order form that allows you to e-mail your order directly to Headquarters. SMPTE's site on the World Wide Web is located at <http://www.smpte.org/>



**SMPTE Books**  
595 W. Hartsdale Ave.  
White Plains, NY 10607

Please send me \_\_\_\_\_ copies of **Implementing HDTV: Television and Film Applications** at the price of \$40 each (\$30 for SMPTE members) plus postage and handling.\*

Enclosed is my check for \$ \_\_\_\_\_.

Charge to my (check one) \_\_\_\_\_ Visa \_\_\_\_\_ MasterCard \_\_\_\_\_ American Express

Card No. \_\_\_\_\_ Expiration Date \_\_\_\_\_

Name \_\_\_\_\_ Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

\*Shipping (each book) UPS/US Mail: US: \$6.00; Canada and Mexico: \$7.00; Overseas (Air ship): \$12.00.

# SUSTAINING MEMBERS

## SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS

ATTAINMENT OF THE OBJECTIVES OF THE SMPTE IS AIDED BY THE FINANCIAL SUPPORT OF THE MEMBER COMPANIES LISTED BELOW

Aaton Des Autres, Inc.  
Academy of Motion Picture  
Arts and Sciences  
Accom, Inc.  
Adolph Gasser, Inc.  
Advanced Audio Visual Systems  
Advanced Modular Solutions  
Agfa-Gevaert, N.V.  
W. Albrecht GmbH Studiogeräte  
All Post Inc.  
Amber Technology Pty. Ltd.  
AMP, Inc.  
Ampex Corp.  
Anton/Bauer, Inc.  
Arriflex Corp.  
Artel Video Systems  
Asaca/Shibasoku Corp. of America  
Association of Cinema  
and Video Laboratories, Inc. (ACVL)  
Avid Technology, Inc.  
Avitel Electronics Ltd.  
Ballantyne of Omaha/Strong International  
Band Pro Film/Video, Inc.  
BHP, Inc.  
Bittree, Inc.  
Broadcast Store, Inc.  
Broadcast Video Rentals, Ltd.  
Cable Television Laboratories, Inc.  
Canadian Broadcasting Corp.  
Canare Cable, Inc.  
Canon U.S.A., Inc.  
Capital Cities/ABC, Inc.  
CBS, Inc.  
Century Precision Optics  
Channel Four Television Corp.  
Chyron Corp.  
Cinema Products Corp.  
Coherent Communications, Inc.  
Comlinear Products Group  
Communications Engineering, Inc.  
Compression Labs, Inc.  
Consolidated Film Industries  
Consortium for Educational Communication  
Czech Television  
D&S Corley Ltd. /a DSC Laboratories  
Deluxe Laboratories, Inc.  
Desper Products, Inc.  
Digi-Media Vision, Ltd.  
Digital Graphix, Inc.  
Digital Vision, DV Sweden  
Walt Disney Co.  
Di-Tech Inc.  
Dolby Laboratories, Inc.  
Du Art Film Laboratories, Inc.  
Du Art Video  
Dynatech Video Group  
East Coast Video Systems  
Eastman Kodak Co.  
ECI Telecom  
Electrosonic Leisure Systems  
Evans & Sutherland Computer Corp.  
Evertz Microsystems Ltd.  
Faroudja Laboratories  
Federation of Australian Commercial  
Television Stations  
The Film Lab  
Fluke Deutschland GmbH  
Foto-Kem Industries, Inc.

Four Media Co.  
Fox Inc.  
Fujinon Inc.  
Fuji Photo Film U.S.A.  
Gennum Corp.  
Gepco International, Inc.  
Graham-Patten Systems, Inc.  
Gray Engineering Labs, Inc.  
GTE Telephone Operations  
Hewlett-Packard Co.,  
Video Communications Div.  
Hitachi America, Ltd.  
Hitachi Denshi America, Ltd.  
Hollywood Film & Video, Inc.  
Home Box Office  
Hollywood Film Co.  
Ikegami Electronics (U.S.A.), Inc.  
Imagica Corp.  
IMMAD Broadcast Services  
Independent Television Association  
Interactive Multimedia Association  
International Broadcasting Convention  
International Cinema Equip. Co.  
Inter-Society  
Intertec Publishing Corp.  
JVC Professional Products Co.  
Kings Electronics Co., Inc.  
Leader Instruments Corp.  
Leitch, Inc.  
Location Update Magazine  
Lowel-Light Manufacturing, Inc.  
Management Graphics, Inc.  
Match Frame Post Production  
Matrox Electronic Systems, Inc.  
Maxell Corp. of America  
Merlin Engineering Works, Inc.  
Microvision, Inc.  
Miller Fluid Heads (USA) Inc.  
Minerva Systems  
Miranda Technologies, Inc.  
Modern Videofilm  
Mole-Richardson Co.  
Montreux International TV Symposium  
Motion Picture Association of America  
Motion Picture Promotion Corp.  
Moviecam/F. G. Bauer Filmtech.  
Moviecode/Jastram Filmtechnik  
MPL Film & Video Inc.  
MSTV, Inc.  
NAC Inc.  
National Assn. of Broadcasters  
National Broadcasting Co., Inc. (NBC)  
National TeleConsultants, Inc.  
NEC America, Inc., Broadcast Equipment Div.  
Nemal Electronics International  
Nielson Media Research  
NHK Technical Services Co., Ltd.  
Nippon Television Network Corp.  
Norwegian Broadcasting Corp.  
Nova Systems, Inc.  
O'Connor Engineering Labs  
Odetics, Inc., Broadcast Div.  
O.L.E. Canada  
Optical Disc Corp.  
Optical Radiation Corp.  
Pacific Bell  
Pacific Radio Electronics  
Pacific Title & Art Studio

Panasonic Broadcast & TV Systems Co.  
Panavision International  
Paramount Pictures  
Philips/BTS Broadcast TV Systems, Inc.  
Philips Laboratories  
Photo-Sonics, Inc.  
Pinnacle Systems, Inc.  
Pioneer New Media Technologies, Inc.  
Pixar Animation Studios  
Point Broadcast GmbH  
Polish Television (Telewiza Polska)  
Power Quality International, Inc.  
Public Broadcasting Service (PBS)  
Quantel  
Rank Cintel Inc.  
RE America, Inc.  
Reed Exhibition/ShowBiz Expo Events  
RTI/Lipsner-Smith  
Sachtler Corp. of America  
Samsung Electronics Co., Ltd.  
David Sarnoff Research Center  
Scitex Digital Video, Inc.  
Showscan Entertainment  
Snell & Wilcox, Inc.  
Solid State Logic  
Sony Corp. of America  
Sony of Canada, Ltd.  
Sony Pictures High Definition Center  
Steenbeck, Inc.  
Strand Lighting, Inc.  
Sunset Post, Inc.  
Sutro Tower  
Swedish Television  
Swiss Broadcasting Corp. (SCA)  
Synergistic Technologies, Inc.  
Synthesys Research, Inc.  
Tajimi Electronics Co. Ltd.  
The Tape House Editorial Co.  
Technical Film Systems, Inc. (TFS)  
Technicolor, Inc.  
Tekniche, Ltd.  
Tektronix, Grass Valley Products  
Tektronix, Inc.  
Telect, Inc.  
Telex Communications, Inc.  
Theatre Equipment Association  
Thomson Broadcast, Inc.  
Tiffen Manufacturing Corp.  
Todd A-O/Glen Glenn Studios  
Toei Chemical Industry Co., Ltd.  
Tokyo Broadcasting Systems, Inc.  
Toshiba America Consumer  
Tribune Broadcasting Co.  
Trompeter Electronics, Inc.  
Ultimate Corp.  
Universal City Studios  
Utah Scientific  
Video Intl. Development Corp.  
Video Post & Transfer, Inc.  
Video Products Group Inc.  
Videotek, Inc.  
Vyvx, Inc.  
Warner Bros. Studio Facilities  
Weircliffe Intl., Ltd.  
S. Merrill Weiss Consulting  
Westrex  
YCM Laboratories  
Yokocine D.I.A. Inc.

The Society invites applications for Sustaining Membership from other interested companies • Information may be obtained from Timothy J. Spitzer, Chairman, Sustaining Membership Committee, Du Art Video, 245 W. 55th St., New York, NY 10019, or from Society Headquarters • Addresses and descriptions of Sustaining Members appear in the *Directory for Members*, published in May 1996, and on SMPTE's Internet site <http://www.smpete.org>.

# PICTURE PERFECT



## LEITCH<sup>®</sup>

(800) 231-9673



### Unspoiled Encoding

Digital bliss! No noise, no differential gain and phase problems and beautiful frequency response. Digital TV gives you all of this; right up to the analog encoder. We wouldn't want to spoil a good thing now, would we?

Call Leitch for details of the clean CES-3501 encoder for NTSC, PAL or PAL-M television.



Los Angeles, CA  
(800) 380-1676

Indianapolis, IN  
(800) 861-9440

Dallas, TX  
(800) 401-3770

New York, NY  
(800) 653-4824

Norfolk, VA  
(800) 665-5062

Atlanta, GA  
(800) 641-1277

<http://www.leitch.com>