

JOURNAL OF THE



SMPTE

ENGINEERING • SCIENCE • TECHNOLOGY
FOR MOTION PICTURES • TELEVISION • INSTRUMENTATION • HIGH-SPEED PHOTOGRAPHY

- 901 Apollo 15 and 16 Ground-Commanded Television Assembly • *Bert M. Soltoff*
- 907 The Subjective Effects of Echoes in 525-Line Monochrome and NTSC Color Television
and the Resulting Echo Time Weighting • *A. M. Lessman*
- 917 Subjective Impairment of Television Pictures — Considerations Regarding the
Summability of Impairment Units • *C. A. Siocos*
- 921 Use of a Waveform Monitor in the Television Film Preview Room • *Daan Zwick*
- 924 The Effects of Exposure Plane Temperature, Reciprocity Failure and Solar Altitude on
Photographic Quality • *John F. Reinhard and John W. Zuidema*
- 926 An Improved System for Theatrical Reproduction of 35mm Optical Sound •
Robert Orban and John Delantoni
- 928 Standards and Recommended Practices
PH22.83-1972 Specifications for Location and Spacing of Edge Numbers on 16mm Motion-Picture Film;
SMPTE Recommended Practice RP 12-1972, Screen Luminance for Drive-In Theaters; SMPTE Recommended
Practice RP 47-1972, Electronic Method of Dropout Detection and Counting
- 931 1972 Winter Television Conference
- 933 113th Technical Conference and Equipment Exhibit
- 934 Biographical Note: Harry J. Lehman
- 931-964 Contents on Inside back cover

SMPTE Winter Television Conference • January 19-20 • Key Biscayne, Fla.

113th SMPTE Technical Conference • April 8-13 • Chicago

volume 81 • number 12

DECEMBER 1972

This Issue is in Two Parts: Part I, December 1972 Journal; Part II, Index to Vol. 81

News Columns

113th SMPTE Technical Conference — Chicago . 931
 SMPTE Winter TV Conference — Key Biscayne . 932
 Education, Industry News 934
 Biographical Note: Harry J. Lehman 934
 Obituaries: Charles Livingston Stockdale;
 Harold M. Plumadore; Raymond Melling;
 James J. Noble 936
 Books Reviewed 942
The Revolt of the Engineers, by Edwin T. Layton,
 Jr., reviewed by Rodger J. Ross; *Photoelectronic
 Imaging Devices, Vol. I, Physical Processes and
 Methods of Analysis; Vol. II, Devices and Their
 Evaluation*, ed. by Lucien M. Biberman and
 Sol Nudelman, reviewed by W. T. Wintringham;

Coherent Optical Computers, by Kendall Preston,
 Jr., reviewed by Pierre Mertz; *Picture Bandwidth
 Compression*, ed. by Thomas S. Huand and Ohl
 J. Tretiak, reviewed by Pierre Mertz; *Modern
 Sound Reproduction*, by Harry F. Olson; *The
 Technique of the Sound Studio (3d ed.)*, ed. by
 Tyler G. Hicks; *The Technique of Special Effects
 Cinematography (3d ed.)*, by Raymond Fielding;
*Film Editing Handbook: Technique of 16mm
 Film Cutting*, by High B. Churchill; *Independent
 Filmmaking*, by Lenny Lipton, reviewed by Murray
 Duitz; *The Work of the Television Journalist*, by
 Robert Tyrrell

Current Literature 954
 Section Meetings 956
 Employment Service 963

Advertisers

Allied Impex Corp 945
 Arriflex Co. of America 937,954
 Atlanta Film Equipment Rental, Inc. 952
 Bach Auricon, Inc. 957
 Bebell, Inc. 944
 The Camera Mart, Inc. 953
 Cinecraft International 963
 Cinema Products Corp. 935
 Classified 963
 Comquip, Inc. 958
 Cosmicar Optical Co., Ltd. 938
 Filmline Corp. 947
 Frezzolini Electronics Inc. 943
 GTE Sylvania, I/C Lighting 940,941

LaVeZZi Machine Works, Inc. 948
 McGraw-Hill Book Co. 962
 3M Co. 939
 Paillard Inc. 951
 Producers Service Corp. 950
 Professional Services 961
 Research Products, Inc. 949
 Rohde & Schwarz Sales Co., (USA) Inc. 964
 SMPTE 946
 SOS Photo-Cine-Optics, Inc. 959
 SPIE 960
 Technology Inc./HF Photo Systems Div. 942
 Western Cine 956

Meeting Calendar

**SMPTE Annual Winter Television Conference, Jan. 19–20, Sonesta
 Beach Hotel, Ocean Drive, Key Biscayne, Florida**
 Annual Convention of the American Society of Photogrammetry, March
 11–16, Washington Hilton Hotel, Washington, D.C.
**113th Semiannual Technical Conference of the SMPTE and Equip-
 ment Exhibit, Apr. 8–13, Hyatt Regency O'Hare Hotel, Chicago**
 SPSE 26th Annual Conference, May 6–11, Rochester, N. Y.
 Society for Information Display International Symposium, May 15–17,
 New York
 Film 73, June 25–29, Royal Lancaster Hotel, London
 6th Technifilmfest, AV-Interconf, AV-Interex, Sept. 28–Oct. 5, Budapest

**114th Semiannual Technical Conference of the SMPTE and Equip-
 ment Exhibit, Oct. 14–19, 1973, New York Hilton Hotel, New
 York**
**115th SMPTE Technical Conference and Equipment Exhibit, May 5–
 10, 1974, Century Plaza Hotel, Los Angeles**
**116th SMPTE Technical Conference and Equipment Exhibit, Sept. 29–
 Oct. 4, 1974, Four Seasons-Sheraton, Toronto**
**117th SMPTE Technical Conference and Equipment Exhibit, Apr. 6–
 11, 1975, New York Hilton Hotel, New York**
**118th SMPTE Technical Conference and Equipment Exhibit, Sept. 28–
 Oct. 3, 1975, Century Plaza Hotel, Los Angeles**

SMPTE Officers and Committees: Rosters of Society Officers, Section and Chapter Officers, and Committee Chairmen and Members, are published in the Directory for Members, published Nov. 1972.