

# JOURNAL OF THE



# SMPTE

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

- 843 Time-Delay System for Sound-Picture Syncing • *Henry Dussault*
- 849 A New Crispener Circuit for Television Images • *Earl F. Brown*
- 853 Video Circuits for Transistor Television Cameras  
• *D. Bray and G. E. Hayden-Pigg*
- 860 The Work of the E.B.U. Ad-hoc Group on Colour Television (Reprint)  
• *Richard Theile*
- 863 Electrical Installation Techniques for a Large Film Production Center  
• *J. Robert Mann, Jr., and Norman Leigh*
- 869 The Use of Photographic Triangulation in Determining the Positions of Objects  
in Large-Scale Experiments • *Donald E. Phillips*
- 872 Space Astronomy and the Slow-Scan Vidicon • *Leonard R. Malling*
- 876 Image Dissection in High-Speed Photography — A Bibliography  
• *J. S. Courtney-Pratt*
- 879 Résumés — Resumenes — Zusammenfassungen
- 881 Proposed Recommended Practice: RP 5, Dimensions for Patch Splices in 2-In.  
Video Magnetic Tape
- 882 The History of Films in South Africa • *E. C. Howes*

95th SMPTE Technical Conference • April 12-17 • Ambassador Hotel, Los Angeles

volume 72 • number 11

**NOVEMBER 1963**

**News Columns**

Call for Papers: 95th Semiannual Technical Conference, Los Angeles . . . . . 886  
 Three SMPTE Officers in Russia . . . . . 886  
 Dissolution of Small Format Committee . . . . . 888  
 Education, Industry News . . . . . 888  
 Obituaries: Herbert T. Kalmus, Theodore von Karman, John M. Wall . . . . . 902  
 Books, Booklets, Brochures . . . . . 904  
**BOOKS REVIEWED** . . . . . 908  
*Principles of Color Sensitometry: 2d, Rev. Ed., publ. by SMPTE; Programs '63: A Guide to Programmed Instructional Materials Available to*

*Educators by September 1963*, ed. Lincoln F. Hanson, reviewed by Steve Knudsen; *Television Deflection Systems*, by A. Boekhorst and J. Stolk, reviewed by W. J. Poch; *American Institute of Physics Handbook (2d ed.)*, ed. Dwight E. Gray, reviewed by Pierre Mertz.  
 SMPTE Test Films . . . . . 910  
 Section Reports . . . . . 912  
 New Products . . . . . 915  
 Journals Available . . . . . 919  
 Employment Service . . . . . 920  
 Statement of Ownership . . . . . 921

**Advertisers**

Anso Div., General Aniline & Film Corp. . . . . 887  
 Arriflex Corp. of America . . . . . 889  
 Bach Auricon, Inc. . . . . 899  
 Camera Equipment Co. . . . . 903  
 Camera Mart, Inc. . . . . 908  
 Camera Service Center . . . . . 896  
 Classified . . . . . 919  
 Eastman Kodak Co. . . . . 895  
 Engelhard Hanovia, Inc. . . . . 913  
 Fairchild Camera & Instrument Corp. . . . . 888  
 Fairchild Recording Equipment, Inc. . . . . 910  
 Filmline Corp. . . . . 914  
 Florman & Babb, Inc. . . . . 892, 912  
 General Film Laboratories . . . . . 911  
 Gevaert Photo-Producten N.V. . . . . 891  
 Gryphon Co. . . . . 914  
 Hollywood Film Co. . . . . 922  
 Philip A. Hunt Company . . . . . 897  
 Lab-TV . . . . . 920

La Vezzi Machine Works . . . . . 906  
 Lipsner-Smith Corp. . . . . 898  
 Magnasync Corp. . . . . 907  
 Marconi Co. . . . . 909  
 Mitchell Camera Corp. . . . . 915  
 Moir-Richardson Co. . . . . 921  
 Motion Picture Printing Equipment Co., Inc. . . . . 921  
 Moviola Mfg. Co. . . . . 917  
 Newman & Guardia Ltd. . . . . 890  
 Pan-American Films . . . . . 902  
 Photo Research Corp. . . . . 916  
 Professional Services . . . . . 918  
 Rank Studio Equipment . . . . . 894  
 L. B. Russell Chemicals, Inc. . . . . 901  
 SMPTE . . . . . 904  
 S.O.S. Photo-Cine-Optics, Inc. . . . . 919  
 Sylvania Electric Products, Inc. . . . . 893  
 Tri Art Color Corp. . . . . 905  
 Westrex Recording Systems . . . . . 900

**Meeting Calendar**

NAEB, 39th Annual Convention, Nov. 17–20, Hotel Schroeder, Milwaukee, Wis.  
 American Physical Society, Nov. 19–21, Norman, Okla.  
 Electronic Industries Association, Winter Conference, Dec. 3–5, Los Angeles.  
 Electronic Industries Association, Conference on Microelectronics, Dec. 10, 11, Univ. of Pennsylvania, Philadelphia, Pa.  
 American Physical Society, Dec. 19–21, Pasadena, Calif.  
 American Society for Quality Control and Institute of Electrical and Electronics Engineers, National Symposium on Reliability and Quality Control, Jan. 7–9, 1964, Statler-Hilton Hotel, Washington, D.C.  
 ASTM International Conference on Materials, Feb. 3–7, 1964, Sheraton Hotel, Philadelphia, Pa.  
 Optical Society of America, Apr. 1–3, 1964, Sheraton-Park Hotel Washington, D.C.  
 NAB, Annual Convention, Apr. 5–8, 1964, Conrad Hilton Hotel, Chicago.  
**95th Semiannual Technical Conference of the SMPTE and Equipment Exhibit, Apr. 12–17, 1964, Ambassador Hotel, Los Angeles.**  
 Institute of Environmental Sciences, Technical Meeting and Equipment Exposition, Apr. 13–15, 1964, Sheraton Hotel, Philadelphia, Pa.  
 SPSE, International Conference, Apr. 23–May 2, 1964, Americana Hotel, New York  
 AICE, National Meeting, May 3–6, 1964, Penn-Sheraton Hotel, Pittsburgh, Pa.

ASTM 67th Annual Meeting and 16th Materials Testing Exhibit, June 21–26, 1964, Conrad Hilton Hotel, Chicago.  
 AICE, ASME, ISA, IEEE, Fifth Joint Automatic Control Conference, June 26–28, 1964, Stanford University, Palo Alto, Calif.  
 PSA, International Convention, Aug. 16–20, 1964, Queen Elizabeth, Montreal, Canada.  
**96th Semiannual Technical Conference of the SMPTE and Equipment Exhibit, Sept. 27–Oct. 2, 1964, Commodore Hotel, New York.**  
 Optical Society of America, Annual Meeting Oct. 7–9, 1964, Statler Hilton, New York.  
 NAB, Annual Convention, Mar. 21–25, 1965, Shoreham and Sheraton Park Hotels, Washington, D.C.  
**97th Semiannual Technical Conference of the SMPTE and Equipment Exhibit, Mar. 28–Apr. 2, 1965, Ambassador Hotel, Los Angeles.**  
**98th Semiannual Technical Conference of the SMPTE and Equipment Exhibit, Oct. 31–Nov. 5, 1965, Queen Elizabeth Hotel, Montreal.**  
**99th Semiannual Technical Conference of the SMPTE and Equipment Exhibit, May 1–6, 1966, Sheraton Park Hotel, Washington, D.C.**  
**100th Semiannual Technical Conference of the SMPTE and Equipment Exhibit, Oct. 2–7, 1966, Ambassador Hotel, Los Angeles.**  
**101st Semiannual Technical Conference of the SMPTE and Equipment Exhibit, May 8–12, 1967, Statler-Hilton Hotel, New York.**  
**103rd Semiannual Technical Conference of the SMPTE and Equipment Exhibit, Apr. 22–27, 1968, Ambassador Hotel, Los Angeles.**  
**105th Semiannual Technical Conference of the SMPTE and Equipment Exhibit, Apr. 20–25, 1969, Fontainebleau Hotel, Miami Beach, Fla.**

.....  
**SMPTE Officers and Committees:** The rosters of the Officers of the Society, its Sections, Subsections and Chapters and of the Committee Chairmen and Members were published in the April 1963 Journal.