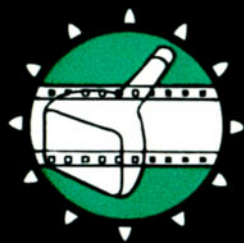


# JOURNAL OF THE



# SMPTE

- 631 Illumination Control for a Direction-Indicating System  
• Samuel E. Dorsey
- 636 Camera Tubes for Color TV Broadcast Service  
• R. G. Neuhauser
- 643 Switching and Controls for Color and Monochrome TV Studios  
• James W. Thompson
- 645 Candlepower and Color Temperature of Tungsten Lamps  
• A. J. Sant and A. J. Leta
- 648 Densitometry of an Embossed Kinescope Recording Film  
• W. R. J. Brown, C. S. Combs and R. B. Smith
- 652 Replaceable Pole Tip Caps for Magnetic Reproduce Heads  
• Michael Rettinger
- 654 Instructions for SMPTE Registration Test Film
- 656 American Standards—35mm Film Dimensions

This Issue in Two Parts: Part I, December 1956 Journal; Part II, Index to Vol. 65

81st SMPTE Convention • Apr. 29–May 3, 1957 • Shoreham Hotel, Washington

volume 65 • number 12

**DECEMBER 1956**

**News Columns**

81st Convention Program . . . . . 658  
 Education, Industry News . . . . . 658  
 Section Reports . . . . . 660  
 New Members . . . . . 663  
 BOOKS REVIEWED . . . . . 668  
     *Color Television Engineering*, by John W. Wentworth, reviewed by R. D. Chipp; *Television and Radar Encyclopaedia, 2d ed.*, edited by W. Mac-

Lanachan, reviewed by F. J. Bingley; *Transistors I, RCA Laboratories*, published by RCA Laboratories, N.J., reviewed by W. V. Wright, Jr.; *Transistors Handbook*, by W. D. Bevitt, reviewed by W. V. Wright, Jr.; *Die Kinematographische Kamera*, by Dr.-Ing. Harald Weise, reviewed by Peter V. Norden.  
 New Products . . . . . 672  
 Employment Service . . . . . 676

**Advertisers**

Byron, Inc. . . . . 678  
 Camera Equipment Co. . . . . 667  
 Camera Mart, Inc. . . . . 662  
 Classified . . . . . 677  
 Electro-Voice, Inc. . . . . 674  
 Filmline Corp. . . . . 666  
 Fish-Schurman Corp. . . . . 668  
 Houston Fearless . . . . . 671  
 Kling Photo Corp. . . . . 664, 665

Magnasync Mfg. Co., Ltd. . . . . 661  
 Movielab Film Laboratories, Inc. . . . . 675  
 Peerless Film Processing Corp. . . . . 669  
 Photo Research Corp. . . . . 676  
 Precision Film Laboratories, Inc. . . . . 663  
 Prestoseal Mfg. Corp. . . . . 677  
 Professional Services . . . . . 677  
 Reeves Soundcraft Corp. . . . . 673  
 Westrex Corp. . . . . 659

**Meeting Calendar**

---

Symposium on Communication Theory and Antenna Design, sponsored by Air Force Cambridge Research Center and Boston University, Jan. 9-11, 1957, Boston University, Boston, Mass.  
 3rd National Symposium on Reliability and Quality Control in Electronics, Jan. 14-16, 1957, Hotel Statler, Washington, D. C.  
 American Institute of Electrical Engineers, Winter General Meeting, Jan. 21-25, 1957, Hotel Statler, New York.  
 Audio Engineering Society, West Coast Convention, Feb. 7, 8, 1957, Ambassador Hotel, Los Angeles.  
 National Photographic Show, Feb. 16-24, 1957, New York Coliseum, New York.  
 Optical Society of America, Mar. 7-9, 1957, Statler Hotel, New York.  
 Radio Engineering Show and IRE National Convention, Mar. 18-21, 1957, New York Coliseum, New York.  
 American Physical Society, Mar. 21-23, 1957, U. of Pennsylvania, Philadelphia, Pa.  
 International Photographic Exposition, Mar. 22-31, 1957, National Guard Armory, Washington, D. C.  
 American Chemical Society, Apr. 7-12, 1957, Miami, Fla.  
 National Academy of Sciences, Apr. 22-24, 1957, Washington, D. C.  
 Symposium on the Role of Solid State Phenomena in Electric Circuits,

Polytechnic Institute of Brooklyn, Apr. 23-25, 1957, Engineering Societies Building, New York.  
 American Physical Society, Apr. 25-27, 1957, Washington, D. C.  
 American Society for Testing Materials, June 16-21, 1957, Chalfont-Haddon Hall, Atlantic City, N. J.  
 American Institute of Electrical Engineers, Summer General Meeting, June 24-28, 1957, Montreal, Que.  
 81st Semiannual Convention of the SMPTE, including Equipment Exhibit, Apr. 29-May 3, 1957, Shoreham Hotel, Washington, D. C.  
 Western Electronic Show and Convention, Aug. 20-23, 1957, Cow Palace, San Francisco  
 82nd Semiannual Convention of the SMPTE, including Equipment Exhibit, Oct. 4-9, 1957, Philadelphia-Sheraton, Philadelphia.  
 83rd Semiannual Convention of the SMPTE, including Equipment Exhibit, April 21-26, 1958, Ambassador Hotel, Los Angeles.  
 84th Semiannual Convention of the SMPTE, Oct. 20-24, 1958, Sheraton-Cadillac, Detroit.  
 85th Semiannual Convention of the SMPTE, including International Equipment Exhibit, May 4-8, 1959, Fontainebleau, Miami Beach.  
 86th Semiannual Convention of the SMPTE, including Equipment Exhibit, Oct. 6-10, 1959, Statler, New York.



**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 1956 Journal.