

JOURNAL OF THE



SMPTE

- 321 Signposts for the Future • *Barton Kreuzer*
- 322 Letter to Editor — 16mm Projector Possibilities • *Jose M. Ruiz*
- 323 The Transistor • *R. D. Middlebrook*
- 330 The Role of Transistors • *Richard B. Hurley*
- 332 Progress With Transistors • *Burton R. Lester*
- 334 A Transistorized Seven-Position Portable Mixer • *Kurt Singer*
- 338 Automatic Recarboning of Carbon-Arc Lamps • *J. P. Latil*
- 340 Procedures Used to Compare Theater Screens • *Yorick G. Hurd*
- 347 Minimizing the Effects of Ambient Light on Image
Reproduction • *G. L. Beers*
- 355 A Color Schlieren System for High-Speed Photography •
George E. Hays
- 357 Analysis of High-Speed Motion-Picture Data • *William G. Hyzer*
- 361 Improved 16mm Projector for Research • *S. A. Weinberg,
J. S. Watson and G. H. Ramsey*

82d SMPTE Convention • October 4-9 • Sheraton Hotel, Philadelphia

volume 66 • number 6

JUNE 1957

News Columns

81st Convention	364	SMPTE Engineering Committee Manual.	372
Fall Convention Papers Program	364	Education, Industry News	374
From Get-Together Luncheon Speech by Jack Woolley	368	Obituaries: John A. Norling, Russell O. Drew	376
SMPTE Industry Luncheon	370	Closed-Circuit TV Communications Progress, by Nathan L. Halpern	378
Exhibits	371	New Products	383
		Employment Service	387

Advertisers

Berndt-Bach, Inc.	373	Motion Picture Laboratories, Inc.	384
Byron, Inc.	388	Movielab Color Corp.	381
Camera Equipment Co.	370, 371	Peerless Film Processing Corp.	368
Camera Mart, Inc.	380	Photo Research Corp.	382
D'Arcy Magnetic Products, Inc.	372	Photo-Sonics, Inc.	379
Daven Co.	378	Precision Film Laboratories, Inc.	366
Filmline Corp.	383	Prestoseal Mfg. Corp.	367
Harwald Co.	376	Professional Services	382
Hollywood Film Co.	365	RCA Service Co.	387
Houston Fearless.	385	Reeves Soundcraft Corp.	377
Kling Photo Corp.	375	SMPTE.	386
Magnasync Mfg. Co., Ltd.	369	Westrex Corp.	374

Meeting Calendar

American Society for Testing Materials, June 16-21, Chalfonte-Haddon Hall, Atlantic City, N. J.	American Society of Mechanical Engineers, Fall Meeting, Sept. 23-25, Statler Hotel, Hartford, Conn.
Professional Group on Electronics, I. R. E., National Convention on Military Electronics, June 17-19, Sheraton-Park Hotel, Washington, D. C.	Standards Engineers Society, 6th Annual Convention, Sept. 23-25, Commodore Hotel, New York.
American Institute of Electrical Engineers, Summer General Meeting, June 24-28, Montreal, Que.	Institute of Radio Engineers and American Institute of Electrical Engineers, Industrial Electronics Conference, Sept. 24-25, Morrison Hotel, Chicago.
British I. R. E., June 27-July 1, Cambridge University, England.	82nd Semiannual Convention of the SMPTE, including Equipment Exhibit, Oct. 4-9, Philadelphia-Sheraton, Philadelphia.
International Symposium on Physical Problems of Color Television, sponsored by International Union of Pure and Applied Physics, French Physical Society, French Society of Radioelectricians, French Society of Vacuum Engineers, July 2-6, National Conservatory of Arts and Crafts, 292 rue Saint-Martin, Paris 3e, France.	National Electronics Conference, Oct. 7-9, Hotel Sherman, Chicago.
Western Electronic Show and Convention, Aug. 20-23, Cow Palace, San Francisco. The technical program will offer 255 papers at 48 sessions.	American Standards Association, Eighth National Conference on Standards, Nov. 13-15, San Francisco.
Biological Photographic Association, Aug. 27-30, Kahler Hotel, Rochester, Minn.	83rd Semiannual Convention of the SMPTE, including Equipment Exhibit, April 21-26, 1958, Ambassador Hotel, Los Angeles.
Illuminating Engineering Society, National Technical Conference, Sept. 9-13, Biltmore Hotel, Atlanta, Ga.	84th Semiannual Convention of the SMPTE, Oct. 20-24, 1958, Sheraton-Cadillac, Detroit.
Instrument Society of America, 12th Annual Instrument-Automation Conference and Exhibit, Sept. 9-13, Auditorium, Cleveland, Ohio.	American Standards Association, Ninth National Conference on Standards, Nov. 18-20, 1958, Hotel Roosevelt, New York.
American Statistical Association, Annual Meeting of Section on Physical and Engineering Sciences, Sept. 10-13, Atlantic City, N. J.	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 1957 Journal.