

JOURNAL OF THE

SMPTE



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

817 EDUCATION—TECHNOLOGY, SYSTEMS AND PROGRAMS

Introduction • *Max Beard* / Ultrarapid Film Systems for Data Display and Computer Interlock • *Maxwell A. Kerr* / A Modular Audio-Visual Autoinstructional System • *W. H. Trow* / Multimedia Instructional Techniques, Facilities and Services for College Teaching • *William L. Millard* / Engineering and the School of Tomorrow • *Robert W. Wagner* / Motion Pictures in Science Education • *William H. MacCallum* / 8mm and Education • *Albert J. Rosenberg* / Application of Small-Format Cinematography to the Biomedical Sciences: Clinical Use of 8mm Motion Pictures • *Jerry H. Anderson* / Motion Pictures and Education in Eastern Europe • *Herbert E. Farmer*

841 The Practical Testing of Television Camera Tubes • *Walter E. Turk*

846 An 8- by 10-in. Transparency Illuminator for Television • *D. H. McRae and R. E. J. Halliday*

848 A New Method of Television Waveform Display • *Glen Southworth*

850 Long-Haul Television Signal Transmission • *Pierre Mertz*

856 Historic Aspects of the SMPTE • *Glenn E. Matthews*

867 Résumés—Resumenes—Zusammenfassungen

871 Catalog of Equipments by Moscow Construction Bureau • *Translated by Deane R. White*

876 The Role of Standardization in Technological Progress • *Alex E. Alden*

878 CINE — The Council on International Nontheatrical Events • *Willis H. Pratt, Jr.*

880 Proposed Bylaw Amendments

volume 75 • number 9

SEPTEMBER 1966

100th
SMPTE
technical conference
& equipment exhibit

SMPTE
October 2–7
Ambassador Hotel
Los Angeles



ANNIVERSARY

News Columns

100th Conference and Equipment Exhibit,
Hollywood 882
100th Conference—ADVANCE PROGRAM . . . 884
100th Conference—EXHIBIT DIRECTORY . . . 906
SMPTE Merger Vote 918
Education, Industry News 918
BOOKS REVIEWED 934
Monobath Manual, by Grant Haist, reviewed by
Donald J. Sykes; *Outline of Zetetics: A Study of*

Research and Artistic Activity, by Joseph T.
Tykociner, reviewed by Glenn E. Matthews.
Books, Booklets, and Brochures 936
A New Studio Vision Mixer, by G. Farnworth . . 942
Section Meetings 952
Abstracts of Papers from Other Journals 958
New Products 974
Employment Service 977
Journals Available/Wanted 977

Advertisers

Allied Impex Corp. 916
Altec Lansing Corp. 954
Amega Corp. 942
Andrew Smith Harkness 918
Arriflex Corp. of America . . . 900, 901, 935, 978
Bach Auricon, Inc. 889
Behrend's, Inc. 928
Bell & Howell Co. 929
Burke & James, Inc. 966
Birns & Sawyer Cine Equipment Co., Inc. . . . 922
Byron Motion Pictures, Inc. 909
Camera Mart, Inc. 920, 930, 964
Camera Service Center, Inc. 905
Carbons, Inc. 934
ColorTran Industries 912
Andre Debrie of New York 961
DeLuxe/General Film Labs. 885
Du Art Film Labs. 925
E. I. du Pont de Nemours & Co., Inc. 907
Eastman Kodak Company 947, 973
Edgerton, Germeshausen & Grier, Inc. 966, 976
Evershed Power Optics Ltd. 873
F & B/Ceco, Inc. 899, 937, 949
Fairchild Recording Equipment Corp. 926
Filmline Corp. 952
General Aniline & Film Corp. 960
General Electric Co. 911
Gevaert-Agfa N.V. 959
Glen Glenn Sound Co. 903
Gryphon Corp. 945
Hazeltine Corp. 893
Herrnfeld Engineering Co. 940
Hills Manufacturing Co. 915
Hokushin Electric Works 943
Hollywood Film Co. 971
Philip A. Hunt Chemical Corp. 883
Ichizuka Optical Co. 968
L-W Photo, Inc. 958
Lab-TV 972
La Vezzi Machine Works 919

Lipsner-Smith Corp. 932
3M Co., Revere-Mincom Div. 917, 931
Magnasync/Moviola, Inc. 913
Magna-Tech Electronics Co., Inc. 963
Maier-Hancock Sales, Inc. 970
Mastereel Industries, Inc. 939
Metro/Kalvar, Inc. 936
D. B. Milliken Co. 953
Mitchell Camera Corp. 962
Mole-Richardson Co. 950
Motion Engineering Service 951
Motion Picture Enterprises, Inc. 976
Motion Picture Labs, Inc. 891
Motion Picture Printing Equipment Co. 967
Movielab, Inc. 897
Moviola Manufacturing Co. 970
National Theatre Supply Co. 895
Newman & Guardia Ltd. 923
North American Philips Co. 887
Optical Coating Labs, Inc. 927
Pathe Laboratories, Inc. 877, 879, 881
Perkin-Elmer Corp. 974
Plastic Reel Corp. of America 957
Precision Laboratories 948
Professional Services 956
Rank Studio Equipment 921
Red Lake Laboratories, Inc. 975
Ryder Magnetic Sales Corp. 914
SMPTE 944
S.O.S. Photo-Cine-Optics Inc. 933
Shure Brothers, Inc. 941
Sony Corp. of America 955
Spindler & Sauppe, Inc. 875
Technicolor Corp. of America 965
Trans-Canada Films Ltd. 910
Vanguard Instrument Corp. 924
Western Cine Labs. 977
Westrex Co., Litton Industries 938
Wide Range Electronics Corp. 946
Zoomar, Inc. 969

Meeting Calendar

Photokina, Oct. 1-9, Cologne, Germany
100th Semiannual Technical Conference of the SMPTE and Equipment
Exhibit, Oct. 2-7, 1966, Ambassador Hotel, Los Angeles
National Electronics Conference, Oct. 3-5, McCormick Pl., Chicago.
Audio Engineering Society, 18th Annual Fall Conf., Oct. 10-14,
Barbizon Plaza Hotel, New York.
Optical Society of America, 51st Annual Meeting, Oct. 19-22, Jack
Tar Hotel, San Francisco.
ISA, 21st Annual ISA Conference & Exhibit, Oct. 24-27, 1966, Statler
Hilton Hotel, Coliseum, New York
SPSE, Colloquium on the Photographic Interaction Between Radiation
and Matter, Oct. 26-29, Marriott Twin Bridges Motor Hotel,
Washington, D.C.

American Institute of Chemical Engineers, Annual Meeting, Dec. 4-8,
Statler Hotel, Detroit.
IEEE Int'l Convention & Exhibition, March 20-24, 1967, Coliseum and
New York Hilton Hotel, New York.
101st Semiannual Technical Conference of the SMPTE and Equipment
Exhibit, April 16-21, 1967, New York Hilton Hotel, New York
Illuminating Engineering Society, Third Annual Theater, Television and
Film Lighting Symposium, May 14-16, 1967, Hollywood Roosevelt
Hotel, Hollywood, Calif.
SPSE, Annual Conference on Photographic Science and Engineering,
May 15-19, 1967, Sherman House, Chicago
102nd Semiannual Technical Conference of the SMPTE and Equip-
ment Exhibit, Oct. 15-20, 1967, Edgewater Beach Hotel, Chicago

SMPTE Officers and Committees: Rosters of Society Officers, Section and Chapter Officers, and Committee Chairmen and Members, were published in the June 1966 *Journal*, Part II.