

JOURNAL OF THE



# SMPTE

- 521 Operational Characteristics of Rear Projection • *John F. Dreyer*
- 525 Synthetic Highs—An Experimental TV Bandwidth Reduction System  
• *W. F. Schreiber, C. F. Knapp and N. D. Kay*
- 538 A New Approach to Balanced Audio Levels in Television  
• *Robert B. Monroe*
- 542 Plastics for Motion-Picture Laboratories • *Roderick T. Ryan*
- 545 Significant Developments in TV Studio Lighting Layouts  
• *Rollo Gillespie Williams*
- 548 Proposed Constitution and Bylaws Amendments

86th SMPTE Convention • October 5-9 • Statler Hilton, New York

volume 68 • number 8

**AUGUST 1959**

**News Columns**

|  |     |                                    |     |
|--|-----|------------------------------------|-----|
| 86th Convention . . . . .  | 548 | Education, Industry News . . . . . | 552 |
| Proposed Bylaws Amendments . . . . .                             | 548 | Section Reports . . . . .          | 554 |
| Test Film Resales . . . . .                                      | 548 | New Members . . . . .              | 556 |
| Fifth International Congress on High-Speed Photography . . . . . | 550 | New Products . . . . .             | 563 |
|  |     | Employment Service . . . . .       | 567 |

**Advertisers**

|                                       |     |   |     |
|---------------------------------------|-----|---|-----|
| Arriflex Corp. of America . . . . .   | 568 | Houston Fearless Corp. . . . .            | 559 |
| Berndt-Bach, Inc. . . . .             | 557 | Magnasync Mfg. Co., Ltd. . . . .          | 549 |
| Camera Equipment Co. . . . .          | 558 | Motion Picture Laboratories, Inc. . . . . | 563 |
| Cine Speed, Inc. . . . .              | 567 | Movielab Color Corp. . . . .              | 553 |
| Cinema Engineering Div. . . . .       | 566 | Peerless Film Processing Corp. . . . .    | 560 |
| Diamond Power Specialty Corp. . . . . | 565 | Professional Services . . . . .           | 562 |
| Electronic Applications, Inc. . . . . | 550 | SMPTE . . . . .                           | 556 |
| Filmline Corp. . . . .                | 564 | S.O.S. Cinema Supply Corp. . . . .        | 554 |
| Gevaert Photo-Producten N.V. . . . .  | 551 | Tri Art Color Corp. . . . .               | 561 |
| Hollywood Film Co. . . . .            | 555 | Wollensak Optical Co. . . . .             | 552 |

**Meeting Calendar**

|  |   |
|--|---|
| WESCON, Aug. 18-21, Cow Palace, San Francisco.   | IRE Canadian Convention, Oct. 7-9, Toronto, Ont.  |
| AIEE, Petroleum Industry Conference, Aug. 25-27, Wilton Hotel, Long Beach, Calif.  | Optical Society of America, Annual Meeting, Oct. 8-10, Chateau Laurier Hotel, Ottawa, Ont.  |
| Mathematical Association of America, Summer Meeting, Aug. 31-Sept. 3, Univ. of Utah, Salt Lake City, Utah.   | ASCE, Los Angeles Convention, Oct. 9-13, Hotel Statler, Los Angeles.  |
| New York State Society of Professional Engineers, Autumn Meeting, September, Niagara Falls, N. Y.  | AIEE, Fall General Meeting, Oct. 11-16, Chicago.  |
| Illuminating Engineering Society, Annual National Conference, Sept. 7-11, Fairmont & Mark Hopkins Hotels, San Francisco.   | National Electronics Conference, Oct. 12-14, Hotel Sherman, Chicago.  |
| American Institute of Electrical Engineers and National Electrical Manufacturers Association, National Electrical Insulation Conference, Sept. 9-11, Chicago, Ill. | National Society of Professional Engineers, Fall Meeting, Oct. 15-17, Olympic Hotel, Seattle, Wash.   |
| Society of Plastics Industry, Midwest Section Conference, Sept. 10, 11, French Lick, Sheraton Hotel, French Lick, Ind.   | ASCE, Annual Convention, Oct. 19-23, Hotel Statler, Washington, D. C.   |
| American Chemical Society, National Meeting, Sept. 13-18, Atlantic City, N.J.  | American Standards Association, National Conference on Standards, Oct. 20-22, Sheraton-Cadillac Hotel, Detroit, Mich.   |
| Standards Engineers Society, Annual Meeting, Sept. 21-23, Somerset Hotel, Boston, Mass.  | Acoustical Society of America, Fall Meeting, Oct. 22-24, Wade Park Manor Hotel, Cleveland, Ohio.  |
| Instrument Society of America, Annual Instrument-Automation Conference and Exhibit, Sept. 21-25, International Amphitheatre, Chicago, Ill.                         | Society of Photographic Scientists and Engineers, Oct. 26-30, Edgewater Beach Hotel, Chicago.   |
| IRE, Conference on Non-Linear Magnetics and Magnetic Amplifiers, Sept. 23-25, Shoreham Hotel, Washington, D.C.   | IRE, Electron Devices Meeting, Oct. 29-31, Shoreham Hotel, Washington, D. C.  |
| AICE, Sept. 27-30, St. Paul Hotel, St. Paul, Minn.   | Louisiana Polytechnic Institute, Instrumentation Conference, Nov. 5, 6, Ruston, La.   |
| National Symposium on Telemetry, Sept. 28-30, Civic Auditorium and Whitcomb Hotel, San Francisco.  | IRE, Instrumentation Conference, Nov. 9-11, Atlanta, Ga.  |
| IRE and AIEE, Industrial Electronics Conference, Sept. 30-Oct. 2, Muelbach Hotel, Kansas City, Mo.   | Sixth National Symposium on Reliability and Quality Control, Jan. 11-13, 1960, Statler Hilton Hotel, Washington, D.C.   |
| 11th International Cinematography Engineering Congress, Oct. 1-3, Turin.   | IRE National Convention, Mar. 21-24, 1960, Coliseum and Waldorf-Astoria Hotel, New York.  |
| IRE, Aeronautical Communications Symposium, Oct. 5-7, Hotel Utica, Utica, N. Y.  | Inter-Society Color Council, 29th Annual Meeting, Apr. 11, 12, 1960, Philadelphia Museum College of Art, Philadelphia.  |
| 86th Semiannual Convention of the SMPTE including Equipment Exhibit, Oct. 5-9, Statler Hilton Hotel, New York.   | 87th Semiannual Convention of the SMPTE, May 1-7, 1960, Ambassador Hotel, Los Angeles.  |
|  | 88th Semiannual Convention of the SMPTE, and Fifth International High-Speed Congress and Equipment Exhibit, Oct. 16-22, 1960, Sheraton-Park Hotel, Washington, D.C. |
|  | 89th Semiannual Convention of the SMPTE, Spring, 1961, Royal York, Toronto.   |
|  | 90th Semiannual Convention of the SMPTE, Oct. 15-20, 1961, 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 1958 Journal, Part II.