

Section Meetings

Midwest

Mr. Frank E. Carlson, Illuminating Engineer in the Lamp Department of the General Electric Company, at Nela Park, spoke on "New Developments in Mercury Lamps for Motion Picture and Television Studio Lighting"* at the January 8, 1948, meeting of the Midwest Section. The paper described a cadmium-mercury source developed in England and showed its adaptation to standard lighting equipment units. Technicolor motion pictures and slides demonstrated its qualities with direct comparisons of material photographed with carbon-arc sources and the mercury source. Discussion brought out the fact that although many types of this light source are being developed in the United States, it will be some time before they will be available commercially.

Appreciation was expressed to the Eastman Kodak Stores for the use of two 1000-watt Master Kodaslide projectors and to the DeVry Corporation for a 35-mm projector.

There was a short business section at which was read the report of the last meeting and the financial report for the year ending December 31, 1947.

* Presented September 30, 1947, before the Pacific Coast Section; published, *JOURNAL OF THE SMPE*, February, 1948, pp. 122-139.

Atlantic Coast

At the February 18, 1948, meeting of the Atlantic Coast Section, L. A. Meacham, Research Engineer for the Bell Telephone Laboratories, presented a paper on "An Experimental Multichannel Telephone Transmission System Employing Pulse-Code Modulation". Mr. Meacham pointed out that speech or music translated into patterns of standardized on-off pulses may be transmitted by radio relay over any distance without accumulating noise or distortion. The problems involved in applying this technique (pulse-code modulation) to multiplex telephony have been explored in terms of a 96-channel system designed to transmit speech with commercial toll quality. Novel components of the system were described, including an electron-beam coding tube, the "Shannon-Rack decoder", pulse slicers, sampling circuits, and an instantaneous amplitude compander.

The demonstration allowed the audience to judge the quality of transmission of speech and music obtained with different numbers of characters in the pulse code.

Correction

On page 86 of the January, 1948, issue of the *JOURNAL*, the business affiliation of Mr. C. C. Dash, president of the Hertner Electric Company, was given incorrectly. The Fellow Award citation should read as follows:

C. C. DASH, Hertner Electric Company,
"for the design and manufacture of motor-generator sets used extensively in the motion picture industry."