

Monochromatic Variable-Density Recording System; O. L. DUPY and J. K. HILLIARD, Metro-Goldwyn-Mayer Studios, Culver City, Calif.

This work was undertaken to determine the benefits of a true monochromatic optical system for variable-density recording in the ultraviolet region. A full quartz optical system consisting of both spherical and cylindrical lenses was used, having a reduction of 10-1 from the light-valve spacing. The reduction in lens distortion and improvement in general image quality is reported along with inter-modulation tests on the system, which uses an automatic air-controlled mercury-vapor lamp system.

Recommended Theater Acoustics by the Theater Sound Standardization Committee of the Research Council of the Academy of Motion Picture Arts and Sciences; J. K. HILLIARD, *Chairman*.

A summary of information on recommended theater acoustics collected by this Committee from theater service organizations, architects, equipment manufacturers, and studio personnel.

By combining all the information from these organizations it is now possible to recommend a unified opinion on methods of theater construction which will materially aid in the reproduction of sound pictures in theaters.

STANDARDS COMMITTEE

After initial approval by the Committee in meeting, a letter ballot was recently taken on the following projects:

(1) Rescinding the current SMPE recommended practice for lantern slide dimensions, as published in the March, 1938, issue of the *JOURNAL*, p. 255.

(2) Adoption of the following recommended practice: "The brightness at the center of a screen for viewing motion pictures shall be $10\frac{+4}{-1}$ foot-lamberts, with no film in the gate." (This is to supersede the original recommended practice published in the March, 1938, issue of the *JOURNAL* on page 257.)

(3) Adoption as an SMPE recommended practice of the "Research Council Industry Practice for Release Print Sound Track Specifications" as published in the Technical Bulletin of the Research Council of the Academy of Motion Picture Arts and Sciences, dated June 19, 1940.

The letter ballots have indicated approval of these three projects, and publication of the fact is made hereby. If within sixty days of publication of this issue of the *JOURNAL*, no objections to these proposals arise from the industry, they will be transmitted to the Board of Governors of the Society for validation as SMPE recommended practices.