

INTER-SOCIETY COLOR COUNCIL

NEWS LETTER NO. 6

The Technical Association of the Pulp and Paper Industry will hold their annual meeting, February 18 - 21, 1935, at the Waldorf-Astoria Hotel, New York City. For Wednesday, February 20th, the following program has been planned:

R. G. Macdonald, Technical Association of the Pulp and Paper Industry -

10:00 A.M.

Chemistry of Color, by A. E. Gessler, International Printing Ink Company

Color as Light, by A. C. Hardy, Massachusetts Institute of Technology

Color in Use, by George Welp, International Printing Ink Company

Optical Characteristics of Paper, by F. A. Steele, N. J. Zinc Company

2:00 P.M.

Coloring of Cellulose Fibers, by R. E. Rose and J. Carl Schmidt, Dupont Company

Brightness Tester, by M. N. Davis, Kimberly-Clark Corporation and H. F. Lewis,
Institute of Paper Chemistry

Study of the Factors Influencing the Brightness of Paper, by Kress of
Institute of Paper Chemistry and E. R. Laughlin, Dupont Company

Method for Determining the Whiteness of Paper, by D. B. Judd, Bureau of
Standards

Reflection Measurements on Pulp and Paper, by R. S. Hunter, Bureau of
Standards

Dependence of Reflectance and Opacity on Thickness: Relation between
contrast Ratio and Printing Opacity, by D. B. Judd.

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Geraldine K. Walker, National Bureau of Standards -

STATISTICAL INVESTIGATION OF THE UNIFORMITY OF GRADES OF 1,000 LOVIBOND RED GLASSES. Both regular and erratic departures from additivity are demonstrated in the Lovibond scale as embodied in these 1,000 red glasses combined with 35-yellow, and the additive nature of the Priest-Gibson scale has been confirmed.

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H. T. Wensel, D. B. Judd, and W. F. Roeser - National Bureau of Standards -

ESTABLISHMENT OF A SCALE OF COLOR TEMPERATURE. The scale is based on lamps color-matched with black bodies held to known uniform temperatures by immersion in a freezing element. Platinum, rhodium, and iridium have yielded points at 2046°K, 2239°K, and 2727°K, respectively. Interpolation between these points is accomplished by way of the brightness temperature of a particular coil of the lamp.

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H. J. McNicholas, National Bureau of Standards -

EQUIPMENT FOR MEASURING THE REFLECTIVE AND TRANSMISSIVE PROPERTIES OF DIFFUSING MEDIA. Equipment is described providing means for the precise control and measurement of the directional and spectral distribution of incident, reflected, and transmitted light; this equipment is designed to study color, gloss, and transparency of textiles and papers, and hiding and tinting power of pigments, enamels, and paints.

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Deane B. Judd, National Bureau of Standards -

OPACITY STANDARDS. The standards are rectangles of pot opal glass; they are permanent and cleanable. The development and testing of these standards is described, together with their use for checking the adjustment of opacity meters.

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K. S. Gibson, and Haupt, Geraldine Walker - National Bureau of Standards -

STANDARDIZATION OF LOVIBOND RED GLASSES IN COMBINATION WITH LOVIBOND 35 YELLOW. The fundamental standardization of the Bureau's Lovibond red glasses with 35 yellow is described, leading to formulation of the Priest-Gibson additive scale and unit. These standardized glasses are used to regrade the glasses employed in the color-grading of vegetable oils, over 2,300 glasses having now been regraded.

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All notices, abstracts, and requests for further information regarding any of the items appearing in this letter, should be addressed to M. Rea Paul, 105 York Street, Brooklyn, New York.

February 4, 1935.