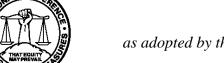
NIST Special Publication 1160

Report of the 97th National Conference on Weights and Measures



Portland, Maine – July 15 through 19, 2012 as adopted by the 97th National Conference on Weights and Measures 2012

> Editors: Tina Butcher Linda Crown Richard Harshman David Sefcik Lisa Warfield

Carol Hockert, Chief Office of Weights and Measures National Institute of Standards and Technology Office of Weights and Measures Gaithersburg, MD 20899-2600

http://dx.doi.or/10.6028/NIST.SP.1160

May 2013



U.S. Department of Commerce *Cameron F. Kerry, Acting Secretary*

National Institute of Standards and Technology Patrick D. Gallagher, Under Secretary of Commerce for Standards and Technology and Director

The National Conference on Weights and Measures is supported by the National Institute of Standards and Technology and is attended by officials from various states, counties, and cities, as well as representatives from the U.S. Government, other nations, industry, and consumer organizations.

Certain commercial entities, equipment, or materials may be identified in this document in order to describe an experimental procedure or concept adequately. Such identification is not intended to imply recommendation or endorsement by the National Institute of Standards and Technology, nor is it intended to imply that the entities, materials, or equipment are necessarily the best available for the purpose.

Abstract

The 97th Annual Meeting of the National Conference on Weights and Measures (NCWM) was held July 15-19, 2012, at the Holiday Inn by the Bay, Portland, Maine. The theme of the meeting was "Taking Measure of Our Worth."

Reports by the NCWM Board of Directors, Standing Committees, and Special Purpose Committees constitute the major portion of this publication, along with the addresses delivered by Conference officials and other authorities from government and industry.

Special meetings included those of the Scale Manufacturers Association, Meter Manufacturers Association, Packaging and Labeling Subcommittee, Task Group on Printer Ink and Toner Cartridges, Fuels and Lubricants Subcommittee, and Associate Membership Committee.

Key words: laws and regulations; legal metrology; meters; scales; specifications and tolerances; training; type evaluation; uniform laws; weights and measures.

Note: The policy of the National Institute of Standards and Technology is to use metric units of measurement in all of its publications. In this publication, however, recommendations received by the NCWM technical committees have been printed as they were submitted and, therefore, may contain references to inch-pound units where such units are commonly used in industry practice. Opinions expressed in non-NIST papers are those of the authors and not necessarily those of the National Institute of Standards and Technology. Non-NIST speakers are solely responsible for the content and quality of their material.

National Institute of Standards and Technology Special Publication 1160 Natl. Inst. Stand. Technol. Spec. Pub. 1160, 658 pages (May 2013) http://dx.doi.or/10.6028/NIST.SP.1160 CODEN: NSPUE2