

February 26-28, 2018

The Florida Hotel & Conference Center | Orlando, FL
1500 Sand Lake Road, Orlando, Florida 32809 | 1-800-588-4656

TE-7 | Monday, February 26 | 8:00 AM - 5:00 PM | 1-Day (8 Hours)

Course Title: Realization and Dissemination of Mass in the “New SI”

Instructor: Patrick Abbott, National Institute of Standards and Technology (NIST)

Track: Mechanical

Course Description:

This course will provide information on realization and dissemination of mass after the redefinition of the kilogram is adopted in 2019. Details will be presented on the motivation for redefining the unit of mass, the experiments involved in tying the kilogram to an invariant of nature, and the Planck constant. The effect of the redefinition on uncertainties of the NIST mass scale and customer calibrations will also be presented.

Learning Objectives:

1. To understand the new definition of the kilogram.
2. To be able to describe the effect of the redefinition on calibration uncertainties.
3. To understand how the world’s mass scale will be maintained in light of independent realizations