



SIM Metrology Working Group 2 “Photometry and Radiometry”

SIM-NIST Training Workshop on Comparison Analysis

Dates: May 19th – 20th, 2016

Place: National Institute of Standards and Technology (NIST), USA

Organizers: NIST, Sensor Science Division, and Statistical Engineering Division

Contact: María E. Nadal, maria.nadal@nist.gov

This workshop will introduce participants to the concepts of comparison analysis in the fields of photometry and radiometry. Topics include measurement systems and uncertainties, measurement assurance and traceability, design and analysis of comparison results, and the Calibration Measurement Capabilities (CMC) review process from initial submission to final publication. The workshop will kick off with lectures on the fundamental topics of photometry, radiometry, and spectrophotometry, including a discussion of how NIST realizes the primary scales in these fields.

SIM workshop participants are welcome to attend the 2016 Council for Optical Radiation Measurements (CORM) conference, http://www.cormusa.org/2016_Call_for_Papers.html, to be held at NIST from May 16th to 18th, 2016. This conference ends with a session on SIM research activities in Photometry and Radiometry. CORM is waving the registration fees of \$495 per person for the first ten people to register for the SIM workshop. In addition, SIM has funds to cover the cost of airfare.

Preliminary Agenda:

- I. Lectures on the Fundamentals of
 - a. Photometry
 - b. Radiometry
 - c. Spectrophotometry
- II. Measurement Equations and Uncertainties
 - a. Updates on the Guide to the Expression of Uncertainty in Measurement (GUM) revision
- III. Comparison Design and Analysis
 - a. CCPR Key Comparisons Update
 - b. SIM Key Comparison Guidelines
- IV. CMCs Review Process
- V. SIM WG2 Meeting
- VI. NIST Photometry and Radiometry Laboratory Tours