

NIST staff hosted a SIM Thermometry and Uncertainty Analysis Training Course for metrologists from 8 SIM NMIs (TTBS (Trinidad and Tobago), CENAME (Guatemala), LATU (Uruguay), INM, (Colombia) CENAM (Mexico), INACAL (Peru), INMETRO (Brazil), and INTN (Paraguay)) from April 18th through April 22. The purpose of the course was to assist SIM NMIs currently developing new thermometry capabilities or expanding existing laboratory capabilities.

The SIM course participants received 4 days of hands-on laboratory instruction in both primary and industrial temperature calibration methods. Training addressed primary ITS-90 temperature realization, SPRT calibration, fixed point cell use, and effective methods for industrial thermometer calibrations using comparison baths and blocks. Training sessions included methods for characterizing measurement equipment and evaluating calibration uncertainty budgets, leading up to a one-day intensive course on uncertainty analysis featuring real-world calibration examples.

