



SIM workshop on radiation thermometry Calibration of infrared thermometers

Date

From September 28th to October 9th, 2015.

Place

Instituto Nacional de Tecnología Industrial (INTI), branch office at Córdoba, Argentina.

Address

1561 Vélez Sársfield Ave., X5000JKC, Córdoba.

Phone

(54) (0351) 460 3974/468 4835/469830

Web sites

<http://www.inti.gob.ar/>

<http://www.inti.gob.ar/cordoba/>

Contacts

Marcelo Jiménez Rebagliati, chelo@inti.gob.ar

Juan Nordio, jnordio@inti.gob.ar

Activity Program: September 28 to October 8.

Daily schedule: from 9:00 h to 12:00 h and 13:15 h to 16:45 h.

Activities will include lectures and laboratory practice.

Lectures will be mixed in order to support practical activities.

Lectures will preferably be held on mornings and laboratory practice on evenings.

Practical activities

- A. Calibration of two infrared thermometers from 50 °C to 500 °C.
- B. Measurement of the size-of-source effect.
- C. Uncertainty calculation.
- D. Writing the calibration certificate.

Lectures

1. Introduction.
2. Practical considerations.
3. Calibration of an infrared thermometer.
4. Emissivity.
5. Size-of-source effect.
6. Uncertainty calculation.
7. Certificate of calibration.

SIM MWG3 Meeting October 9th 2015

- Planning an Uncertainty Course in thermometry on 2016 with NIST Support (Antonio Possolo and Thermometry Division)
- Developing CMC compliant uncertainty budgets and CMCs for the KCDB
- New issues concerning CMCs
- Results of K6 and K9
- New Comparisons registration at KCDB (general Information)
- Planning new comparisons related to CMC Declaration in Humidity and Radiation Thermometry
- Mise en Practique of the new definition of kelvin K and link to thermodynamic Temperature Project part 2.
- SIM MWG3 RESTRUCTURE: Why? Future directions