

Report from SIM Metrology Working Group 3 to CCT

Andrew Todd and Ciro Sanchez

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With the retirement of Edgar Mendez-Lopez (CENAM, Mexico). Andrew Todd (NRC, Canada) and Ciro Sanchez (INM, Columbia) were elected as Chair and vice-Chair, respectively.

Activities and Meetings

SIM MWG 3 participated in a webinar for colleagues in the metrology community on July 30 to exchange ideas and experiences in using infrared thermometry for public health challenges. This initiative received the support of CIPM CCT and APMP TCT & DEC.

SIM MGW3 organized a workshop on 30-July to share experiences and best practices for the use and calibration of IR thermometers.

MGW3 planned to meet next (in person) at ITS-10 but with rescheduling of that event we will need to plan a virtual meeting to replace it.

NIST offered its “NIST-SIM Radiation Thermometry Short Course” on 20 to 22 October. This NIST-SIM course had 56 SIM participants with 6 NIST lecturers. The course which was held over a three day period consisted of 9, 1-hour lectures and 2, 1.5 hour virtual lab experiments and demonstrations. The participants will be provided with training certificates which can be used for support of technical training/qualification requirements of 17025.

Coordinated by NIST, MGW 3 is working to design and construct a portable blackbody cavity for infrared thermometer calibration. Partners in this work are México, Brazil and Colombia.

Comparisons

MGW 3 is working with the chair of CCT-WG-KC to clear the “silent” comparisons in SIM thermometry.

INM is organizing a “SIM comparison between INMs for Industrial type Platinum Resistance Thermometers calibration by comparison over the range from - 40 °C to 420 °C”. PTB is the pilot laboratory and INM of Colombia the coordinating laboratory. The comparison protocol is under revision by participants prior to register with MWG 3 Chairman.

The following are the participants by loop, tables 1 and 2:

Table 1. Participants for loop 1.

N	Country	Laboratory
1	Ecuador	INEN

2	Perú	INACAL
3	Bolivia	IBMETRO
4	Chile	CESMEC
5	Argentina	INTI
6	Uruguay	LATU
7	Paraguay	INTN
8	Brasil	INMETRO

Table 2. Participants for loop 2.

N	Country	Laboratory
1	Panamá	CENAMEP AIP
2	Honduras	SNC
3	El Salvador	CIM
4	México	CENAM
5	Trinidad y Tobago	TTBS
6	República Dominicana	INDOCAL
7	Colombia	INM