

# TC Report to GA - November 2016



# SIM Technical Committee

## Changes since last report

| Title                      | Name                        | Institute | Email Address                |
|----------------------------|-----------------------------|-----------|------------------------------|
| ANDIMET Rep                | Juan Carlos Castillo        | IBMETRO   | jc.castillo@ibmetro.gob.bo   |
| CAMET Rep                  | Claudia Alejandrina Estrada | CIM       | caestrada@cim.gob.sv>        |
| CARIMET Rep                | Robert Medford              | GBS       | robert_medford@spiceisle.com |
| NORAMET Rep                | Alan Steele                 | NRC       | alan.steele@nrc.ca           |
| SURAMET Rep                | Humberto Brandi             | INMETRO   | hbrandi@inmetro.gov.br       |
| Electricity                | Lucas Di Lillo              | INTI      | ldili@inti.gov.ar            |
| Photometry                 | Maria Nadal                 | NIST      | maria.nadal@nist.gov         |
| Thermometry                | Edgar Méndez                | CENAM     | emendez@cenam.mx             |
| Length                     | Karina Bastida              | INTI      | bastida@inti.gov.ar          |
| Time                       | Raúl Solís                  | CENAMEP   | rsolis@cenamep.org.pa        |
| Ionizing Radiation         | Lisa Karam                  | NIST      | lisa.karam@nist.gov          |
| Mass                       | Fernando Kornbliz           | INTI      | ferk@inti.gov.ar             |
| Chemistry                  | Valnei Da Cunha             | INMETRO   | vscunha@inmetro.gov.br       |
| Acoustics                  | Gustavo Ripper              | INMETRO   | gpripper@inmetro.gov.br      |
| Flow                       | Roberto Arias               | CENAM     | rarias@cenam.mx              |
| Legal                      | Emilio Löbbe                | INTI      | lobbe@inti.gov.ar            |
| Quality                    | Gabriela de la Guardia      | CENAMEP   | gdelaguardia@cenamep.org.pa  |
| Statistics and Uncertainty | Antonio Possolo             | NIST      | Antonio.possolo@nist.gov     |



# TC MEETING MAY 2016



- **Importance to bring SIM position internationally and specifically at CC level** through MWG chairs. It is important to attend the WG of CMCs that should be working in every CC.
- **ACTION 1:** Discuss in the MWG the possible topics for **technical guides**. Workshops can be used to define this and how to proceed. We can take as base existing documents in the area.
- **ACTION 2:** Ask at JCRB level to take an action in which when a regional comparison protocol comes to CC level to be reviewed, the CC secretary communicate regional TC chairs.
- **ACTION 3:** Discuss the possibility of implementing a **panel of experts for different reviews** in each MWG in order to improve the CMC review process
- **ACTION 4 :** Send a form to all NMIs Directors in order to **actualize the contacts for all MWGs**. Dead line: 31/7/2016-**DONE**

# TC MEETING MAY 2016



- **ACTION 5:** Have more NMIs involved in the process of **piloting comparisons** by:
  - Organize workshop/s on “How to pilot a comparison”
  - Experienced NMIs mentoring other NMIs
  - We have to take into account that if a bilateral comparison is proposed by an NMI to another the proposing NMI can be the pilot if another NMI is named as the receptor of the data making so the process more transparent.
- **ACTION 6:** Every MWG will try to discuss the application of this practice (**broad scope CMCs**) in each area and send some inputs to TC chair before 31/7/2016.
- **ACTION 7:** Every MWG will review each **CC strategic plan** and make a document with the points that the group define as important for SIM.
- Also related to this, every MWG will **make a plan for 3 years** defining activities (at least for the first year)- Dead line: 1/11/20106

# TC MEETING MAY 2016

- **ACTION 8:** The possible presentation of **joint research projects** will be discussed in each MWG-IDB project. A call will be made as soon as the money is available.

Take also into account:

- NIST training possibilities
- NIST guest researchers program
- Other possibilities

- **ACTION 9:** A **list of Peer Reviewers** in each magnitude and area will be provided by each MWG. Dead line 15/08/2016
- **ACTION 10:** MWGs will discuss and make **proposals for the website**. Dead line 31/08/2016
- **ACTION 11:** MWGs: 4, 6, 10 and 12 will continue with the search of new chairs during this year. A new chair or deputy should be presented before 30/10/2016. In the case of a deputy a period of training will be set



# TRAINING ACTIVITIES 2016



| MWG                           | Activity   |
|-------------------------------|--|
| 1- Electricity and Magnetism  | July- "On site calibration of voltaje meters. Transformers and current measurements transformers"- NRC |
| 2.- Photometry and Radiometry | May- "SIM Workshop on Comparison Analysis"- NIST   |
| 3- Temperature and Humidity   | September- "Workshop on Thermo-physical properties"- CENAM   |
| 7- Mass and Related           | July – "SIM workshop on Calibration of Balances and Density Meters"-INDECOPI                           |
| 8- Chemical Metrology         | May- "Training on Food Analysis"- INTI<br>July- "Clinical chemistry training"- NIST                    |
| 11- Legal Metrology           | July- "Workshop on water meters for home use"- INDECOPI  |

SIM is sending 5 metrolgists for the "Leaders of tomorrow" Workshop at BIPM

# NIST-SIM Partnership Projects- Trainings



-“FUNDAMENTALS OF METROLOGY”  
NIST, OFFICE OF WEIGHTS AND MEASURES  
TRAINER(S): DR. GEORGIA HARRIS  
DATES OF TRAINING: 4 – 8 APRIL 2016

-“ITS-90 REALIZATION, INDUSTRIAL PLATINUM  
RESISTANCE THERMOMETERS AND UNCERTAINTY  
ANALYSIS TRAINING”  
NIST, SENSOR SCIENCE DIVISION AND STATISTICAL  
ENGINEERING DIVISION  
TRAINER(S): DR. MICHAL CHOJNACKY, DR. DAWN  
CROSS AND DR. ANTONIO POSSOLO  
DATES OF TRAINING: 18 – 22 APRIL 2016

# NIST-SIM Partnership Projects- Trainings

- “DIMENSIONAL METROLOGY”  
NIST, ENGINEERING PHYSICS DIVISION  
TRAINER(S): DR. DAN SAWYER  
DATES OF TRAINING: 10 – 12 MAY 2016



-”TIME AND FREQUENCY”  
NIST, TIME AND FREQUENCY DIVISION  
TRAINER(S): DR. TOM O’BRIAN AND DR. MICHAEL  
LOMBARDI  
DATES OF TRAINING: 7 – 11 JUNE 2016



# JCRB – IMPORTANT ISSUES



**Action 35/01:** GULFMET is encouraged to register their comparisons in the KCDB

**Action 35/02:** The RMOs to include an update on strategic planning with respect to KCs and SCs undertaken at the RMO TC level in their reports to the JCRB.

**Action 35/04:** The BIPM will identify possible metrics that might measure the quality of the intra-regional CMC reviews carried out by each RMO.

**Action 35/05:** The BIPM to ask RMOs about the availability of materials to support the involvement of NMIs from countries and economies with emerging metrology systems in the work of the CIPM MRA.

# JCRB – IMPORTANT ISSUES

**Action 35/06:** The JCRB charged a subgroup (Alan Steele convenor,) to prepare a draft position paper on its response to the MRA review for discussion at the next meeting of the JCRB.

**Action 35/07:** The JCRB charged a subgroup (Claudia Santo convenor), to prepare a draft position paper on the feasibility of “broader scope” CMCs for discussion at the next meeting of the JCRB.

**Action 35/09:** The RMOs to remind TC and WG chairs of the requirement to submit, at the beginning of the inter-RMO review, the confirmation that the QMS evidence supports the CMC set

**Action 35/10:** The BIPM will delete the listings of non-signatory and non-designated participants of comparisons that currently appear in the drop-down menus of the KCDB (recalling that all participants will continue to be listed in the comparison reports).



# JCRB – IMPORTANT ISSUES



**Action 36/01:** The JCRB Executive Secretary will review current membership of the WG RMO (or the equivalent designation) within each CC, and provide the list of members to the JCRB.

**Action 36/02:** The JCRB charged a task group (A. Steele convener) to develop a presentation for the 2016 NMI Directors Meeting, of the JCRB response to the CIPM MRA review.

**Action 36/03:** The JCRB charged a task group (A. Steele convener) to prepare a draft RACI analysis of the MRA Review Working Group recommendations, based on the JCRB Strategic Approach to the MRA Review (JCRB working document JCRB-36/05.1). The draft RACI analysis to be distributed to the JCRB prior to the 37th JCRB meeting in March, 2017.

# JCRB – IMPORTANT ISSUES

**Action 36/04:** The JCRB welcomes the proposal made by the BIPM and charges the BIPM to progress to the next stage of developing KCDB 2.0.

**Action 36/05:** The JCRB charged a task group (Claudia Santo convener) to prepare a draft document reviewing “best practices” in formulation and submission of CMCs, to be distributed prior to the 37th JCRB meeting in March, 2017.





- THANK YOU FOR YOUR ATTENTION!!!