Interamerican System of Metrology
Sistema Interamericano de Metrologia-SIM

Chemical Metrology Working Group

Strategic Plan Working Group Workshop
CCQM-2017

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SIM-Chemical Metrology Working Group Chair
Inmetro/BR
Mission
To promote and support an integrated measurement infrastructure in the Americas which enables each member national measurement institutes to stimulate innovation, competitiveness, trade, consumer safety and sustainable development by effectively participating in the international metrology community.

Vision
A representative, transparent, competent, and worldwide-recognized regional metrology organization.

Organized in five subregions (Noramet, Carimet, Camet, Andimet, and Suramet), SIM is comprised of metrology organizations from 34 countries in the Americas and benefits from a Governing Council structured by one coordinator from each subregion, a Technical Committee, a Professional Development Committee and an integrated representation (JCRB) which provides access for SIM in a world agreement for the comparison of standards at the highest metrology level.
• MWG 8. Chemical Metrology Working Group

• Currently, the CMWG meets once a year, rotating the sites among the sub regions;

• Activities of the SIM Chemical Metrology Working Group include:
  – Technical Meeting
  – Chemical Metrology Awareness and Strategic Planning Seminars
  – Workshops and Training Activities for building capacity

<table>
<thead>
<tr>
<th>CMWG SIM Meetings</th>
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<tbody>
<tr>
<td>✓ 2010 - Chile</td>
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<tr>
<td>✓ 2011 – Costa Rica</td>
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<tr>
<td>✓ 2012 – Argentina</td>
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<tr>
<td>✓ 2013 - Mexico</td>
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<tr>
<td>✓ 2014 - Peru</td>
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<tr>
<td>✓ 2015 – Argentina</td>
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<td>✓ 2016 – Costa Rica</td>
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Major achievement for SIM CMWG in last period?

More trainings, interactions between NMIs, to increase the number of NMI participating in regional and supplementary comparisons.

“Training Workshop on Measurement of Gas Concentrations for Monitoring Air Quality and Climate Change”

Date: September 8-10 2015, Place: CENAM/Mexico, Organizers: NIST-OAS-CENAM


Date: February 26th, 2016, Place: Mexico City, Organizers: SIM/OAS/COPANT/PTB

“Participation in the course: LEADERS of TOMORROW/BIPM at BIPM. Sponsor: NIST” – 7 students

SIM Chemical Metrology Working Group
ID/MS Clinical Measurement Course
Hosted by NIST

SIM Chemical Metrology Working Group Meeting
Hosted by LACOMET

Agenda
May, 16-17 – Technical Meeting
May, 18 – Training in CMC preparation and review - Reenie Parris/NIST
May, 19 – Awareness Workshop: Metrology in Chemistry and Nanometrology
Comparisons in the last period

SIM-QM-K111 Propane in N₂ Coordinator: Inmetro (Draft B report)
SIM-QM-K27 Ethanol in aqueous matrices. Coordinator: Inmetro (Draft A report)
SIM-QM.S5 Synthetic Natural Gas (on going) Coordinator: Cenam
SIM-QM.S7 Trace metals in drinking water (on going) Coordinator: NRC

Comparisons planned

SIM-QM.S6 – Automotive Gas Emissions in nitrogen (starting in the end 2017)

Future Comparisons

Number of comparisons per year for future period?
2017 – 1 : Gas Metrology
2018 – 1 : T.B.D. Possibly in Organic (Food or clinical)
2019 – 2 : T.B.D. Electrochemistry and Organic
### Number of CMCs (2015)

<table>
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<tr>
<th>SIM Region</th>
<th>AR</th>
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<th>CA</th>
<th>MX</th>
<th>PE</th>
<th>US</th>
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<tbody>
<tr>
<td>CMC in chemistry</td>
<td>35</td>
<td>115</td>
<td>135</td>
<td>317</td>
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### CMC Claim - Cycle XVII (2016)

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### CMC Claim submitted this Cycle XVIII *(2017)*

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<tr>
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<tbody>
<tr>
<td>CMC in chemistry</td>
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<td>4</td>
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<td>3</td>
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*New, review and re-review.
Major Challenges for SIM CMWG in last period?

There is a huge gap between the NMIs development stage. We have mature NMIs, a few number of NMIs with intermediate level of development and the majority of developing NMI or starting. This bring us a challenge to harmonize de needs and set up a plan for activities.

-Limited resources to organize activities and regional comparisons

NEXT CMWG MEETING

September 25-26, 2017

Celebrate our 20th Anniversary

Strategic Plan (To be detailed/discussed/approved in the next CMWG meeting)

- Discuss our Terms of Reference
- Reorganize the SIM CMWG webpage
- Regional comparisons needs
- Special issue of InfoSIM to celebrate our 20th Anniversary (on going)
- Workshop (2018 or 2019): Mycotoxins in Food (part of the CB&KT BIPM – Inmetro/INTI)
- Training : Food Safety/Food Quality (NIST/2018) (under discussion/tbd)
How Should the CCQM Strategy be Adapted to meet RMO Needs?

BIPM activity promoting CBKT is excellent opportunity that could be assimilated by RMO. CCQM could promote the BIPM initiatives according to its strategy. The SIM CMWG will discuss its strategy for the next future years and the goal is to be aligned with CCQM strategy.

Broader scope CMC to be flexible to attend the needs of developing NMI within SIM

Thank You for Your Kind Attention