General Assembly
Virtual meeting
18-19th November
2020

### Report from the SIM Technical Committee

INTERAMERIC DE METROLOGO

#### SIM as a legal entity

| 100 | Economy                     | Institute | DIs                                     |
|-----|-----------------------------|-----------|---|
| 1   | Canada                      | NRC       | тсс                                     |
| 2   | Mexico                      | CENAM     | INECC, ININ                             |
| 3   | USA                         | NIST      | NUWC-USRD*                              |
| 4   | Antigua and Barbuda         | ABBS      |   |
| 5   | Bahamas                     | BBS       |   |
| 6   | Barbados*                   | BNSI      |   |
| 7   | Dominican Republic          | INDOCAL   |   |
| 8   | Grenada                     | GDBS      |   |
| 9   | Guyana                      | GNBS      |   |
| 10  | Haiti                       | BHN       |   |
| 11  | Jamaica                     | BSJ       |   |
| 12  | St. Lucia                   | SLBS      |   |
| 13  | St. Kitts and Nevis*        | SKNBS     |   |
| 14  | St. Vincent and Grenadines* | SVGBS     |   |
| 15  | Trinidad and Tobago         | TTBS      |   |
|     | Belize*                     | BBS       |   |
| 17  | Costa Rica                  | LACOMET   | ICE, RECOPE                             |
| 18  | El Salvador                 | CIM       |   |
| 19  | Honduras                    | СЕНМ      |   |
| 20  | Nicarágua*                  | LANAMET   | MIFIC                                   |
|     | Panamá                      | CENAMEP   |   |
| 22  | Bolivia                     | IBMETRO   |   |
| 23  | Colombia                    | INM       |   |
| 24  | Ecuador                     | INEN      | CMEE, SCAN                              |
| 25  | Peru                        | INACAL    |   |
| 26  | Argentina                   | INTI      | CNEA                                    |
| 27  | Brazil                      | INMETRO   | LNMRI/IRD, ON/DSHO                      |
|     |                             |           | CCHEN, CESMEC, CISA,                    |
| 28  | Chile                       | INN       | CODELCO, DICTUC S.A.,                   |
|     |                             |           | ENAER, IDIC, ISPCH, UDEC                |
| 29  | Paraguay                    | INTN      | , |
|     | Uruguay                     | LATU      | MIEM, UTE                               |

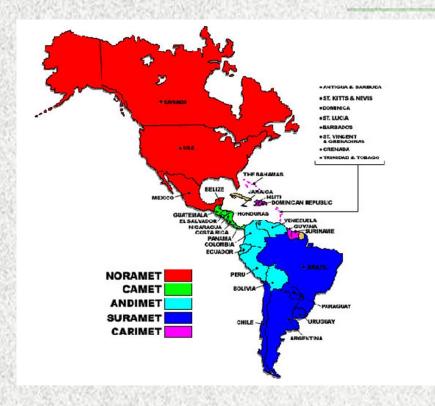
Mission: To promote and support an integrated measurement infrastructure in the Americas which enables each member national measurement institute to stimulate innovation, competitiveness, trade, consumer safety and sustainable development by effectively participating in the international metrology community.

Currently, there are 30 signatories to the legal entity

#### **New developments:**

- Agreement on Membership dues reached in Sept. 2019
- Guidance documents (SIM-D-01 SIM Technical Committee, SIM-D-05 CMC Review Process, and SIM-D-07 SIM Comparisons) approved; published on SIM website
- Revisions to SIM-D-05 and SIM-D-07 to align with KCDB 2.0 approved by TC (presented to Council for this meeting)

## SIM Steering Council Members



President - Claire Saundry (NIST), claire.saundry@nist.gov

Former SIM President – Hector Laiz (INTI), laiz@inti.gov.ar

QSTF Chair - Sally Bruce\* (NIST), sally.bruce@nist.gov

Technical Committee Chair – Salvador Echeverria (CENAM), saleche@cenam.mx

Profesional Development Coordinator – Rodrigo Costa-Felix (INMETRO/Brazil), rpfelix@inmetro.gov.br

Project Coordinator - Javier Arias (CENAMEP), jarias@cenamep.org

SIM Executive Secretary - Claudia Santo, secretariat.sim.org@gmail.com

ANDIMET Coordinator – Edwin Cristancho\* (INM), director@inm.gov.co

CAMET Coordinator – Claudia Alejandrina Estrada (CIM), caestrada@cim.gob.sv

CARIMET Coordinator – I-Ronn Audain (SKNBS), <a href="mailto:chemicalengineerskb@yahoo.com">chemicalengineerskb@yahoo.com</a>

NORAMET Coordinator – Víctor Lizardi (CENAM), <u>vlizardi@cenam.mx</u>

SURAMET Coordinator - Pedro Ibarra (INN)\*, pedro.ibarra@inn.cl

## SIM Technical Committees (Metrology Working Groups)

- TC Chair: Salvador Echeverria (CENAM)
- Deputy Chair: Lisa Karam (NIST)

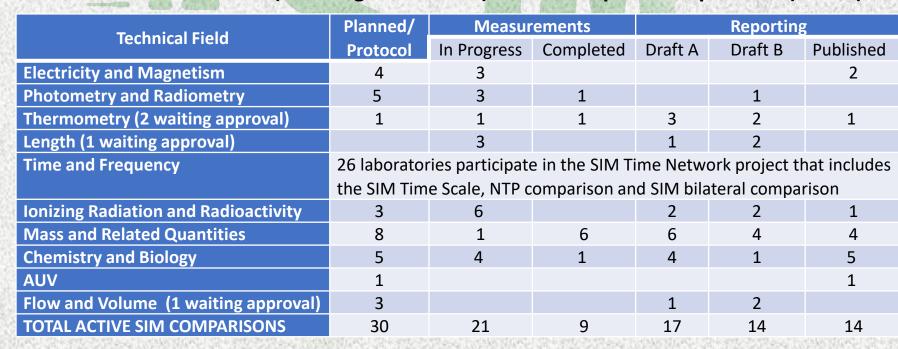
Ensuring efficient and effective support and technical review of calibration and measurement capabilities (CMCs) for publication in the Key Comparison Database in order to support calibration programs of SIM NMIs/DIs through inclusivity, interlaboratory cooperation for metrological rigor, and capacity building

| MWG 1: Electricity and Magnetism            | MWG 8: Chemistry and Biology              |  |  |
|---|---|--|--|
| Chair: Lucas di Lillo                       | Chair: Valnei Da Cunha                    |  |  |
| INTI/Argentina                              | INMETRO/Brazil                            |  |  |
| Idilillo@inti.gob.ar                        | vscunha@inmetro.gov.br                    |  |  |
| MWG 2: Photometry and Radiometry            | MWG 9: Acoustics, Ultrasound, & Vibration |  |  |
| Chair: Thiago Menegotto                     | Chair: Michael Gaitan*                    |  |  |
| INMETRO/Brazil                              | NIST/USA                                  |  |  |
| tmenegotto@inmetro.gov.br                   | mchael.gaitan@nist.gov                    |  |  |
| Vice Chair: Juan Pablo Babaro*              | Vice Chair: Gustavo Ripper*               |  |  |
| INTI/Argentina                              | INMETRO/Brazil                            |  |  |
| Jbabaro@inti.gov.ar                         | gpripper@inmetro.gov.br                   |  |  |
| MWG 3: Thermometry                          | MWG 10: Flow and Volume                   |  |  |
| Chair: Andrew Todd                          | Chair: Hernán Brenta*                     |  |  |
| NRC/Canada                                  | INTI/Argentina                            |  |  |
| andrew.todd@nrc-cnrc.ca                     | hbrenta@inti.gob.ar                       |  |  |
| and ew.toda@iii e eiii e.ea                 | indicita@inti.gob.ar                      |  |  |
| Vice Chair: Ciro Alberto Sánchez            | Vice Chair: Abed Morales                  |  |  |
| INM/Colombia                                | INACAL/Peru                               |  |  |
| csanchez@inm.gov.co                         | amorales@inacal.gob.pe                    |  |  |
|   | MWG 11: Legal Metrology                   |  |  |
|   | Chair: Pedro Pérez Vargas*                |  |  |
| MWG 4: Length                               | SIC/Colombia                              |  |  |
| Chair: Karina Bastida                       | pperezv@sic.gov.co                        |  |  |
| INTI/ARGENTINA                              | Vice Chair Cardes Badriana 748ia.*        |  |  |
| <u>bastida@inti.gob.ar</u>                  | Vice Chair: Sandra Rodriguez Zúñiga*      |  |  |
|   | LACOMET/Costa Rica                        |  |  |
|   | srodriguez@lacomet.go.cr                  |  |  |
| MWG 5: Time and Frequency                   | MWG 12: Quality System                    |  |  |
| Chair: Raúl Solís                           | Chair: Elizabeth Ferreira (LATU, Uruguay) |  |  |
| CENAMEP/PANAMA                              | eferrei@latu.org.uy                       |  |  |
| rsolis@cenamep.org.pa                       |   |  |  |
| Vice Chair: Marina Gerstvolf                | Vice Chair: Silvio dos Santos             |  |  |
| NRC/Canada                                  | INMETRO/Brazil                            |  |  |
| marina.gertsvolf@nrc-cnrc.gc.ca             | sfsantos@inmetro.gov.br                   |  |  |
| MWG 6: Ionizing Radiation and Radioactivity |   |  |  |
| Chair: Raphael Galea                        |   |  |  |
| NRC/CANADA                                  | MWG 13: Statistics and Uncertainty        |  |  |
| raphael.galea@nrc-cnrc.gc.ca                | Chair: Antonio Possolo                    |  |  |
|   | NIST/USA                                  |  |  |
| Vice Chair: Lizbeth Laureano-Perez          | antonio.possolo@nist.gov                  |  |  |
| NIST/USA                                    |   |  |  |
| lizbeth.laureano-perez@nist.gov             |   |  |  |
| MWG 7: Mass & Related Quantities            |   |  |  |
| Chair: Aldo Quiroga                         |   |  |  |
| INACAL/Peru                                 | *New since last update                    |  |  |
| aquiroga@inacal.gob.pe                      |   |  |  |

# Activities in SIM Comparisons and CMCs to fulfill RMO obligations under the CIPM MRA

- SIM Document on SIM Comparisons reiterates CIPM MRA guidance on comparisons (SIM-D-07)
- In addition to RMO comparisons, active SIM participation in other RMOs, CC and BIPM comparisons
- To strengthen relationships with other organizations supporting Regional Quality Infrastructure, SIM participates in COPANT (regional normalization body) and IAAC (regional accreditation body) General Assemblies, and on the Quality Infrastructure Council for the Americas (QICA)

#### Status of "Active" (omitting continuous) SIM-Participant Comparisons (2020\*)





#### Status of SIM (or SIM-Piloted) <u>Comparisons</u>

- To support a CMC, a comparison result needs to be available to reviewers\*
- Comparisons beyond a specified time period (depending on technical area) are not considered suitable for use to support a CMC

\*CMCs may be supported by other means than comparison results.

#### Status of "Old" SIM-Piloted Comparisons (as of 10 November 2020)

| B-04    | Comparison           | Status on KCDB           | Year | Institute | Status (10 Nov 2020)   | MWG |
|---------|----------------------|--------------------------|------|-----------|--|-----|
| No.     | SIM.M.P-S3 abandoned |                          | 2010 | LCPN-P    | ABANDONED  | 7   |
| 3565    | SIM.M.P-S4           | abandoned                | 2010 | LCPN-P    | ABANDONED  | 7   |
|         | SIM.M.P-S9           | abandoned                | 2012 | LCPN-P    | ABANDONED  | 7   |
| 46      | SIM.T-S8             | measurements in progress | 2014 | CESMEC    | Pilot updated to CESMEC (Marinka Quezada)  | 3   |
| 1       | SIM.QM-S5            | planned                  | 2015 | CENAM     | Draft A in preparation (KCDB to be updated)  | 8   |
| 10000   | ССТ-К9               | measurements completed   | 2012 | NIST      | Revised Draft A expected 1 Dec   | 3   |
|         | CCL-K1.2011          | measurements in progress | 2014 | CENAM     | In Draft A (KCDB to be updated)  | 4   |
|         | SIM.M.P-S2           | measurements in progress | 2011 | INMETRO   | Change in pilot; final report expected soon (KCDB to be updated)   | 7   |
| 10 A 10 | SIM.M.P-K1           | protocol complete        | 2010 | CENAM     | Final report published outside KCDB; to be linked to comparison on KCDB as final report once KCRV is determined (KCDB to be updated) | 7   |

# Activities in SIM Comparisons and CMCs to fulfill RMO obligations under the CIPM MRA

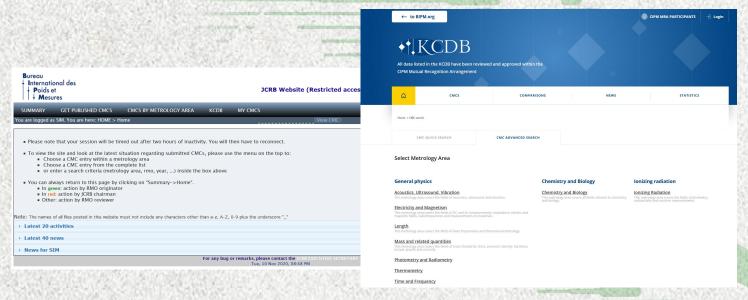
#### SIM Economies with Published CMCs

| Argentina                     | Ecuador       |
|-------------------------------|---------------|
| Bolivia                       | Jamaica       |
| Brazil                        | Mexico        |
| Canada                        | Panama        |
| CARICOM (Caribbean Community) | Paraguay      |
| Chile                         | Peru          |
| Colombia                      | United States |
| Costa Rica                    | Uruguay       |

- SIM remains active in submitting CMCs in all technical areas (661 CMCs published 1 Jan – 10 Nov 2020)
- SIM-D-05 (SIM document on CMC Review Process) revised to align with KCDB 2.0
- Reviews continue during pandemic

| Technical Area                       | # of CMCs Published in 2020 (10 Nov 20) |
|--------------------------------------|---|
| Electricity and Magnetism            | 81                                      |
| Photometry and Radiometry            | 18                                      |
| Thermometry                          |   |
| Length                               | 34                                      |
| Time and Frequency                   | 18                                      |
| Ionizing Radiation and Radioactivity | 11                                      |
| Mass and Related Quantities          | 10                                      |
| Chemistry and Biology                | 325                                     |
| AUV                                  | 142                                     |
| Flow and Volume                      | 22                                      |

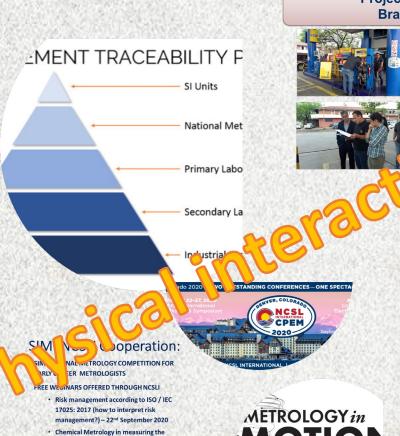
#### Status of SIM CMCs



- Active CMC files were migrated to the "new" KCDB 2.0 early in 2020
- New CMC in gravimetry for Mexico was the first publication of a CMC conceived and completely conducted through the KCDB 2.0 platform
- Three sets of SIM CMCs did not transition to the KCDB 2.0 (last communicated to JCRB secretary 17 September)

|     | CMC File                       | Lab     | Economy  | Last Comments  | Status   |
|-----|--------------------------------|---------|----------|----------------|--|
|     | SIM.M.30.2016 (pressure)       | INM     | Colombia | May 2016       | Abandoned  |
| 100 | SIM.M.38.2017 (vol. of liquid) | CENAMEP | Panama   | June 2019      | Abandoned  |
|     | SIM.M.43.2019 (mass)           | LATU    | Uruguay  | September 2019 | Revision still in progress on old KCDB platform (APMP votes "no" |

## Building a Strong SIM Training and Scientific Exchange



efficiency of respiratory protection

devices (RPD) - 29th September 2020

#### Project Collaboration Brazil/Paraguay



#### MST-SIM Engagement

2019 - 2020

The NIST-SIM Engagement Opportunity provides support to Active Members\*, National Metrology institutes (NMIs) or Designated institutes (Dis), of the Interamerican Metrology System (SIM). NIST supports SIM efforts to promote an integrated metrology infrastructure throughout the Americas.

#### Applications

Applications must have approved by NMI or DI Management. Applicants must specify what type of activity is being sought, the level of project plan. Applicants requesting Guest Researcher speciments must meet anguage proficiency requirements.

#### .....

Elborts will be taken to ensure support is provided to as wapport is provided to as many NMIs as possible. New activities/portmentips will be questions you might have questions you might have progreding the application must clearly identify project projectives. Applications should contact NST hosts/ concludences provided to anchew conno elborators or a

#### \_\_\_\_

HITT BEFFAROUES ASSOCIATIONS

FORBION GUEST RESEARCHER APPOINTMENTS QUEST RESEARCHER EXCHANGES, RUNNING FROM 3-MONTHS TO 1-YEAR, BRING NIST LABAROTORY STAFF TOGETHER WITH SIM AFFILIATED METROLOGISTS TO ADVANCE KEY MEASUREMENT SCIENCE OBJECTIVES. CAUBBATION SERVICES

NIST OFFERS CALIBRATIONS IN A WIDE ARRAY OF MEASUREMENT FIELDS, THROUGH THIS OPPORTUNITY, NIST MAY BE ABLE TO SUPPORT PARTICULAR CALIBRATION NEEDS, VISIT <u>www.nist.gov/colibration</u> FOR MAGER INFORMATION Deadline to Apply

11 October 2019

14 October - 1 November 2019

4 November 2019

- Variety of training activities during MWG meetings and separately
  - Historically supported by IADB, SIM, OAS, PTB, NIST
  - SIM NMI experiences and impact of implementation of ILAC P10, to be reported at midterm 2000 meeting (suspended due to pandemic)
- 30+ working group Chairs, Deputies, and potential future leadership to participate in the on-line tech exchange on the KCDB 2.0 (3 and 10 September), replacing the original regional training in April 2020
- SIM-NCSLI Cooperation
  - SIM Early Career Metrologists competition and presentation at NCSLI August Conference (virtual)
  - Free webinars through NCSLI (Spanish language)
- Active idea exchanges among labs
  - Scientific "in lab linternships (suspended due to pandemic)
  - Technical warning strategic planning, comparison experience
- Training beyond the NMI/DI to the user community (suspended due to pandemic)

#### Building a Strong SIM **Approved SIM Projects** 2019-2020



4TH INDUSTRIAL REVOLUTION

BID

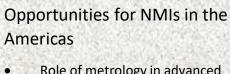




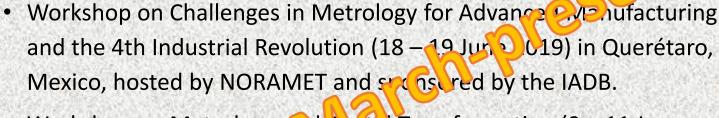
Workshop Challenges and

- Role of metrology in advanced manufacturing
- Public-private dialogue workshop
- Context included the revision of the SI and impact on supporting transitioning the ufacting base into 1 2 4" 11 uscrial

and energy usage



- Re resumatives of NMIs from the M community (especially from economies developing and improving manufacturing capabilities)
- Focus on innovation, sustainability



- Workshop on Metrology and least Transformation (9 11 June) 2020) at INTI Argenting
- Metrology to 10: "Fundamentals of Metrology" (20-24 July 2020) and Balance Scale Calibrations and Uncertainties (13-16 July 2020) at 451; Proficiency Testing Course (11-13 March 2020) at INM Colombia
- SIM-IADB Projects: knowledge transfer for building capabilities
  - Calibration of standard reference material for use in calibrating the magnification or scale of optical microscopy and scanning electron microscopy
  - Improvement and updating of interferometric systems for traceable dimensional nanometrology in SIM
  - Supporting the Quality Infrastructure Council of the Americas (QICA) ("Implementing ISO IEC 17025:2017. Challenges for Quality Infrastructure Organizations in Latin America & the Caribbean"), 24-26 July 2019 in Asunción, Paraguay; anticipated in 2020: "Risk analysis" based on the requirement of ISO IEC 17025:2017

## Metrology in the Time of COVID-19

SIM laboratories responding to measurement needs

#### **Major Challenges for the Laboratories**

- Sudden and unexpected closure of work locations
- Laboratory access curtailed; potential environmental impacts on metrology infrastructure
- IT infrastructure not adequate to fully support remote work
- Suspension of calibration services to users and significant reduction of revenue stream
- Ensuring the physical and mental health of staff

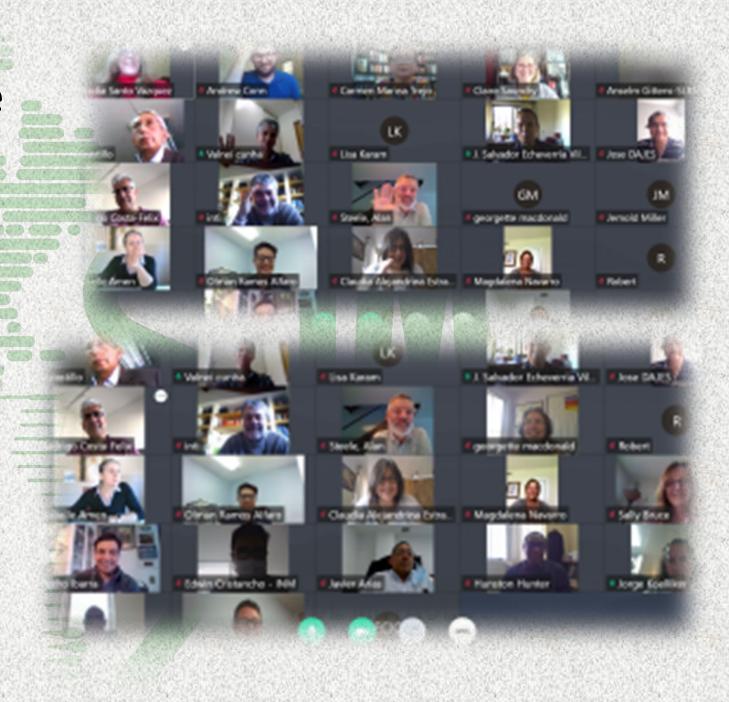
#### **LESSONS LEARNED:**

- Lack of equipment and trained staff to address critical healthrelated measurement needs (e.g., body temperature, blood pressure, flow rate for respirators)
- Need to accelerate the digitalization process for NMI services (some that were not previously considered for web-based services) and adopt available Web-based tools
- Need faster and simpler processes & procedures
- Need regulation of health-related instruments
- Restart will be slow and challenging



## Sharing Virtually: How NMIs are responding to the COVID-19 Crisis

- Members discussed the situation in their respective countries and identified areas where regional cooperation could support the improvement of measurement services to their stakeholders.
- Unique roles of NMIs in supporting their countries' responses to COVID-19
  - diagnostic and antibody testing
  - body temperature measurements
  - low flow rate measurements (critical to the use of mechanical ventilators)
  - safe and effective application of UV radiation for disinfection



## April 2020 Survey of National Metrology Institutes (NMIs)

- Improvements to existing services, new capabilities needs
  - Measurements and calibration of medical devices
  - N95 respirators testing during the crisis, will be transferred to industry.
  - Small flows for respirators
  - Micro Volume, Chemical & Bio services
  - Test of respirators and sterilization systems
  - Need of association with other institutions
- How the SIM organization can help
  - Metrological training programs and assessment on all types of medical services, including traceability and reliability of rapid test kits
  - Maintain communication between members, cooperation among NMI directors
  - Create a community of needs between countries and share info
  - Maintain remote activities
  - Documents and guides for remote calibrations
  - Funding for calibration or temperature reference, intercomparisons in temperature
  - Extension of deadline for payment of SIM membership fees



#### Capacity building for SIM NMIs **Developing SIM NMIs**

#### **Proposed Activities in Response to COVID-19**

- RNA CRM for SARS-COV2 test validation
- **CRMs for PPE materials**
- Medical equipment testing prioritizing ventilators\*

Evaluation of UV technologies for disinfection\*

- Calibration of non-contact, IR thermometers and screening cameras for human body temperature
- Mask testing capabilities











- Strengthening National Metrology Institutes in the Hemisphere, in support of Emerging Technologies (internships, workshops and 6 joint research projects involving 11 institutions in 10 countries)
- Strengthening NMIs in support of the Digital Economy (under development)

#### Continued support from the Organization of American States (OAS):

- Advancing Metrology for Sustainable Energy Technologies and the **Environment in the Western Hemisphere**
- Advancing Metrology for Energy Efficient Measurements and Compliance in Central America and the Dominican Republic

#### Ongoing significant support from the German **Development Fund/PTB**

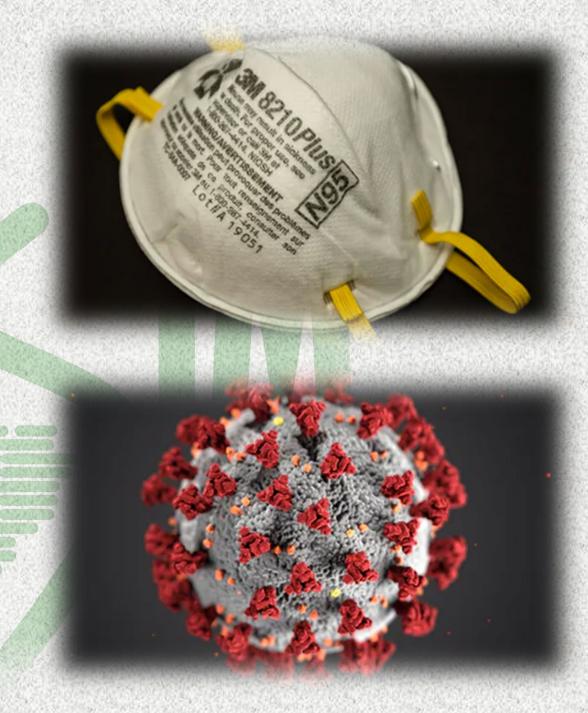
- Quality Infrastructure (QI) for Renewable Energy Sources and Energy Efficiency; QI Service for Biodiversity and Climate Change
- Promoting Innovation in the Green Economy by including QI
- Supporting the QI Council of the Americas (QICA) through Spanish / English virtual training (on determination of calibration intervals for measurement and on risk management according to ISO/IEC 17025:2017)
- Support for COVID-19 response activities

#### NIST support for students and guest researchers

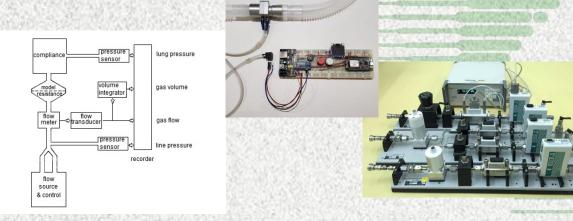
- Capacity Building and Research Exchanges (11 research assignments from 6 countries at NIST)
- 19 SIM representatives to NCSL International Technical Exchange for training, including a large contingency from CARIMET
- Support for COVID-19 response activities, including facilitations of virtual cooperation between NIST scientists and others in SIM

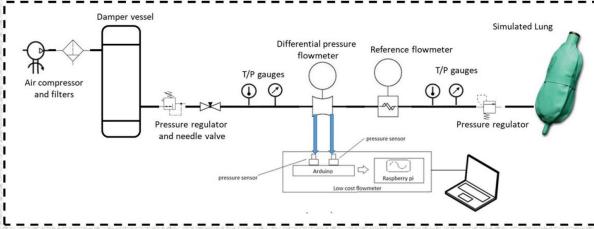
#### SIM Members Responding

- CENAM (Mexico): measurement sensors in ventilator prototypes
   https://www.bipm.org/utils/common/pdf/COVID-19-repository/CENAM\_summary.pdf
- INTI (Argentina): low cost alternative ventilators, temperature measurements textiles for PPE <a href="https://www.bipm.org/utils/common/pdf/COVID-19-repository/INTI\_summary.pdf">https://www.bipm.org/utils/common/pdf/COVID-19-repository/INTI\_summary.pdf</a>
- INMETRO supporting development of a pulmonary ventilators tilator https://www4.inmetro.gov.br/coronavirus
- IBMETRO (Bolivia): mechanical respirators
- INEN (Ecuador): Infrared thermometers for clinical https://www.bipm.org/utils/common/pdf/COVID-19-repository/INEN summary.pdf
- LACOMET (Costa Rica): 3-D printed masks, ventilator sanitizers. https://www.bipm.org/utils/common/pdf/COVID-19-repository/LACOMET\_summary.pdf
- NIST (USA): Testing & Modeling, Biological Measurements, Tech Transfer <a href="https://www.nist.gov/coronavirus">https://www.nist.gov/coronavirus</a>
- NRC (Canada) Test bench for N95 respirators https://nrc.canada.ca/en/corporate/nrc-covid-19-response



#### Development of Basic Metrology Infrastructure to Support Medical Test Equipment (Ventilators)





- Supported by the PTB
- Development of new metrological services (e.g., improved equipment quality and calibration services) adapted to the conditions of the region and addressing the COVID-19 crisis.
- Exchange and dissemination of experiences and knowledge among NMIs, industry, national health systems and secondary calibration laboratories in Latin American countries

#### Outputs

- Measurement of low gas flow and developing cheap low gas flow and volume standards
- Development of low-cost mechanical ventilators (designed by national Latin American NMIs, produced by private companies or the government)

#### Goals

- Strengthening the Quality Infrastructure for healthcare in Latin America and the Caribbean Promote
- Mutual acceptance of measurement results (specifically volume and flow measurements related to ventilators control)
- Enhanced communication with the QSTF regarding status of the QMS during intra-RMO CMC review process

#### Project Coordination:

- MWG10 Flow and volume
- Steering Committee: Hernán Brenta (INTI), Abel Morales (INACAL), Salvador Echeverría (CENAM), Claudia Santo (SIM), Franziska Kamm (PTB), Christian Goethner, and Javier Arias (CENAMEP)

## SIM Meetings of Interest



#### SIM Technical Committee

Reconnection Interim (Virtual) Meeting/<u>Reunión</u> Provisional de <u>Reconexión</u> (virtual)

DRAFT Agenda

Friday, 22/05/2020: 13:00 ~ 18:00 UTC

Zoom Link: https://us02web.zoom.us/j/86964764550

Friday, 22/05/2020 <u>Viernes</u>, 22/05/2020

13:00- Welcome to the interim TC meeting / Bienvenido de la reunión interina del TC

~13:30- Following up from <u>last meeting</u>, status of <u>actions</u>, <u>pending actions</u> / Seguimiento de la última reunión, estado de las acciones, acciones pendientes

- Updates of SIM Reference <u>Document</u> 05 ("SIM <u>Procedure for Review</u> of <u>Calibration</u> and <u>Measurement Capabilities Submitted for Appendix</u> C of the CIPM MRA /Actualizaciones del Documento de Referencia de la SIM 05 ("Procedimiento de la SIM para la Revisión de las Capacidades de Calibración y Medición presentado para el Apéndice C del MRA de CIPM")
  - Should the MWGs review the relevant quality system? How? /¿Deberían los grupos de trabajo hacer revisan los sistemas de calidad relevante? ¿Cómo?
  - o Harmonization with KCDB 2.0/Armonización con el KCDB 2.0
- Reminder of request for funding proposals / Recordatorio de solicitud de propuestas de financiación
- Updates of SIM webpages (http://www.sim-metrologia.org.br/) and contributions from the <u>MWGs</u> /Actualizaciones de las páginas web de SIM y contribuciones de los grupos de trabajo.

~14:15- <u>Updates</u> from the Working <u>Groups</u> and <u>status</u> of <u>activities during current pandemic</u> /
Actualizaciones de los grupos de trabajo y estado de las actividades durante la pandemia presente:
<u>Brief</u> (5-10 minutes) <u>comments including key changes</u> (e.g., <u>changes</u> of <u>chairmen</u>), <u>comparisons</u> or
<u>other issues</u> in <u>each</u> Group / Comentarios breves (5-10 minutos) incluyendo cambios clave (por
ejemplo, cambios de presidentes), comparaciones u otros problemas en cada grupo.

~16:45- JCRB issues /Asuntos del JCRB

~17:15- Other Business; next meeting / Otros asuntos; próxima reunión

~17:30-End of meeting / final de la reunión

- Argentina will host SIM events 0 24 April 2020
  - Meeting of the QSTF
  - Meeting of the TC (MW6 Sairs
  - Meeting of SIM Con
  - BIPM Course or KCDB 2.0 (many speakers from SIM)
- Meeting of SIM Council (virtual) 28 April
- SIM Technical Committee meeting (virtual) 22 May
  - Included full (minus 1) TC membership, leadership from SIM
  - Members of QSTF
  - Extensive discussion on what the QSTF needs from the TC
- Meeting of MWG 3 (Thermometry) held virtually 20 July 2020 (focus on human temperature measurements)
- Planned virtual meeting of MWG 2 (Photometry and Radiometry) on 8 September 2020
- Exploratory virtual meeting on optical tachometers (MWG 5, Time and Frequency) hosted by NMI (Colombia) and with more than 25 participants on 2 October 2020
- Virtual meeting of CCTF (28-29 October 2020)
- MWG 5 virtual meeting (30 October 2020) on laboratory activity updates, with plans for monthly virtual meetings and a face to face in 2021

## Supporting the QSTF Leveraging Expertise for Review Confidence



**CCPR** (Consultative Committee for Photometry and Radiometry; 3 SIM members and 1 SIM Observer)

**WG-SP** (Working Group on Strategic Planning) Chair: Maria Nadal (NIST)

WG-CMC (Working Group on Calibration and Measurement Capabilities) Chair: Marek Smid (CMI)

**WG-KC** (Working Group on Key Comparisons) Chair: Dong-Hoon Lee (KRISS)

To strengthen relationships with other organizations supporting Regional Quality Infrastructure, SIM President, with support of MWG 12 (Quality Systems) participates in COPANT (regional normalization body) and IAAC (regional accreditation body) General Assemblies

- Joint workshops/meetings continue to provide opportunities for direct communication on new requirements and changes
  - Planned KCDB 2.0 training session for joint TC/QSTF (April) converted to online virtual sessions (September)
  - BIPM to hosted virtual (September) and SIM to follow up with Spanish-language training opportunities
- QSTF members participated in TC virtual meeting (May)
- Advantages to having technical expert advice on QS reviews
  - Input from the CC level
  - Guidance on the validity of technical relationships between comparisons and claims
- MWGs encouraged to communicate with the QSTF regarding status of the QMS during intra-RMO CMC review

#### Thanks for your attention!!!

iii Gracias por su atención !!!

Obrigado pela atenção !!!

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