

**SIM Report to the  
EURAMET General  
Assembly**

**8th June 2021**

**Claire Saundry  
SIM President**

A large, stylized green graphic on the left side of the slide. It consists of a series of horizontal lines of varying lengths that form a shape resembling a stylized 'S' or a DNA helix. A vertical line intersects this shape. To the right of this graphic is the large, bold, green text 'SIM'.

**SIM**

**SISTEMA  
INTERAMERICANA  
DE METROLOGIA**

# IDENTIFIED NEEDS - SURVEY 2020:

Remote support for  
personnel and customers  
(digital resources)

Measurements in health  
sector and for medical  
devices prioritizing  
ventilators

Respirator tests

Sterilization using UV  
radiation

Improvements/developing  
of calibration services for  
low air flows (ventilators)

Improvements/developing  
of calibration services for  
IR thermometry

CRM to support  
metrological traceability  
for new and emerging test  
methods for COVID-19

DE METROLOGIE



# SHARING PANDEMIC EXPERIENCES:

June 2020



SISTEMA  
INTERAMERICANA  
DE METROLOGIA



# National Efforts in SIM:

- INTI (Argentina) – procedures and proper use of non-contact IR thermometers for public health officials
- IBMETRO (Bolivia) – low flow measurements for ventilators
- INMETRO (Brazil) – supporting the development of a pulmonary ventilator
- NRC (Canada) – testing and evaluation of PPE
- LCM (Costa Rica) – 3-D printing masks, ventilator fans, ethanol in sanitizers
- INEN (Ecuador) – Infrared thermometers for clinical diagnosis
- CENAM (Mexico) – test methods for the identification of SARS-Cov-2 virus
- NIST (USA) – efficacy and safety of hand sanitizers; characterization of filtration efficiency of cloth masks

# SIM Projects supporting Measurements for Health - addressing the impacts of COVID-19



UV Metrology:  
Evaluation of UVC  
Technologies for UV  
Radiation Disinfection



Development of *basic metrology infrastructure* to support medical testing equipment (ventilators)



SIM Pilot Study – SARS-Cov-2 DNA Copy Number Quantification  
Results will help validate services provided to PCR testing laboratories



Infrared Thermometry: noncontact, thermal infrared measurement devices







VIRTUAL GA NOVEMBER 2020



DE METROLOGI

	Economy	Member NMIs	Associate member Dis	All Dis
1	Canada	NRC		TCC
2	Mexico	CENAM	INEC, ININ	INEC, 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		
16	Belize	BBS		
17	Costa Rica	LACOMET		ICE, RECOPE, Lanamme UCR
18	El Salvador	CIM		
19	Guatemala	CENAMEP		
20	Honduras	CEHM		
21	Nicaragua	LANAMET		
22	Panamá	CENAMEP		
23	Bolivia	IBMETRO		
24	Colombia	INM		
25	Ecuador	INEN		CMEE, SCAN
26	Peru	INACAL		
27	Argentina	INTI		CNEA
28	Brazil	INMETRO	LNMRI/IRD, ON/DSHO	LNMRI/IRD, ON/DSHO
29	Chile	INN	CCHEN, CESMEC, CISA, CODELCO, DICTUC S.A., ENAER, IDIC, ISPCH, UDEC	CCHEN, CESMEC, CISA, CODELCO, DICTUC S.A., ENAER, IDIC, ISPCH, UDEC
30	Paraguay	INTN		
31	Uruguay	LATU	UTE	MIEM, UTE

## 2020 SIM GA 19-20 November 2020

- CENAME-Guatemala accepted as new Active Member
- UTE-Uruguay accepted as an Associate Member (DI)
- Elections
- Bylaws reviewed
- 4 DIs join SIM as Associate Members
- **NEW technical WG on M4DT**
  - Automation of Laboratory Processes
  - Digitalization in Legal Metrology
  - Digital Calibration Certificate
  - Metrology for Industry 4.0
  - NMI's Digital Transformation Strategy
- 2021 SIM GA scheduled for November in Saint Lucia



# SIM Steering Council Council



**President**  
**Claire Saundry**  
**NIST USA**



**Past President**  
**Hector Laiz**  
**INTI Argentina**



**TC Chair**  
**Salvador Echeverria**  
**CENAM Mexico**



**QSTF Chair**  
**Sally Bruce**  
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**Project Coord.**  
**Javier Arias**  
**CENAMEP Panama**



**PDC Rodrigo**  
**Costa-Felix**  
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**ANDIMET**  
**Jose Dajes**  
**INACAL Peru**



**CAMET**  
**Jose Trejo**  
**Belize**



**CARIMET**  
**Erica Caruth**  
**TTBS Trinidad**  
**and Tobago**



**NORAMET**  
**Georgette Macdonald**  
**NRC Canada**



**SURAMET**  
**Daniel Volpe**  
**LATU Uruguay**



# Recent SIM Activities

## OAS Committee on Science and Technology (COMCyT):

- S&T&I to mitigate effects of COVID: Metrology Challenges and Responses to Pandemic 7-2020
- 9th Meeting of COMCyT 12-2020
- Photometer Calibration Application for Air Quality Monitoring Networks (Feb 2021)
- OAS/COMCyT: National Quality Infrastructure as Pillar for Sustainable Development May 2021

## Remote Peer Reviews and Internal Audits

<https://sim-metrologia.org/2021/03/10/remote-peer-reviews-and-internal-audits-guidance-from-sim-mwg-12-and-qstf-members/>

## Measurement Uncertainty:

<https://sim-metrologia.org/wp-content/uploads/2020/10/PossoloMeija2020-MeasurementUncertainty.pdf>

## SIM webinars (in Spanish) with NCSLI:

- September 22, 2020- Risk management according to ISO / IEC 17025: 2017 (how to interpret risk management)
- September 29, 2020 - Metrology in Chemistry in Measuring the Efficiency of Respiratory Protection Devices (DPR)
- October 6, 2020: Infrared Thermometry and COVID-19

CBKT WORKSHOP For CARICOM  
January 2021

BIPM Workshop – SI in FAIR Digital Data  
February 2021

WORKSHOP “KCDB 2.0 at service of the SIM  
Region in Mass and Related Quantities”  
March 2021

SIM Participation in COOMET Early Career  
Metrologist Competition  
April 2021

Early Career Metrologist Competition  
Launched in cooperation with NCSLI in 2020  
2021 Competition underway

Workshop on Metrology and Digital  
Transformation – SIM-PTB  
(Virtual, 07-2020)  
Monthly “Metrology For DT days”  
Next event 6<sup>th</sup> Metrology for DT Day June 24  
(Agile Projects)

Metrologists and experts share experiences in  
the fight against the global pandemic  
December 2020  
February 2021  
June 2021

# Quality Infrastructure Council of the Americas (QICA) Activities

- New MOU with the Pan American Standards Commission (COPANT) and the Inter-American Accreditation Cooperation (IAAC) establishing a reciprocal membership arrangement
- Joint activity to address the interpretation and application of the ILAC Policy on Metrological Traceability of Measurement Results (ILAC P10:07/2020) - initiated with the review and approval of a new version of the Spanish translation of the policy.
- Participation in OAS/COMCYT: National Quality Infrastructure as Pillar for Sustainable Development May 27<sup>th</sup>, 2021
- Training on Risk evaluation and Calibration intervals
- Saint Lucia Bureau of Standards accredited by the Jamaica National Agency for Accreditation – facilitated by QICA



# Quality System Task Force (QSTF)

- Developed Guidelines for conducting and performing remote assessments <https://sim-metrologia.org/about-us/structure/quality-system-task-force-qstf/>
- Convened a Webinar on “Peer Review and Internal Audits” including remote assessments - 9 March 2021: <https://sim-metrologia.org/2021/03/10/remote-peer-reviews-and-internal-audits-guidance-from-sim-mwg-12-and-qstf-members/>
- Since June 2020 - 20 virtual meetings to review the quality management systems of 14 institutes, which support 28 discrete classifications of CMCs.
- Verified the successful transitions of the quality management systems to the ISO/IEC 17025:2017 for 18 institutes

# Support for SIM Activities



## Inter-American Development Bank (IADB)

- Strengthening National Metrology Institutes in the Hemisphere, in support of Emerging - COMPLETED
- Strengthening NMIs in health-related metrology areas and in digitalizing processes (APPROVED!)

## German Development Fund/PTB

- Develop QI Service for Biodiversity and Climate Change
- Circular Economy
- COVID project: Ventilators

## NIST

- Capacity Building and Research Exchanges (paused)
- NCSL International Technical Exchange
- Health Metrology efforts: IR Temperature and UV
- Grant: Strengthening NMIs in the Americas and regional cooperation through SIM, and promoting QI cooperation with related partner organizations



# SIM CELEBRATION OF WMDay

- A virtual SIM Celebration for WMD took place on the 21<sup>st</sup> May 2021.
- 7 NMIs from SIM presented on on-going metrology activities related to Health

<https://sim-metrologia.org/2021/05/05/world-metrology-day-in-sim/>

World Metrology Day



Measurement  
for Health



Bureau  
International des  
Poids et  
Mesures



20 May 2021  
[www.worldmetrologyday.org](http://www.worldmetrologyday.org)

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QUESTIONS?



<https://sim-metrologia.org/about-us/>