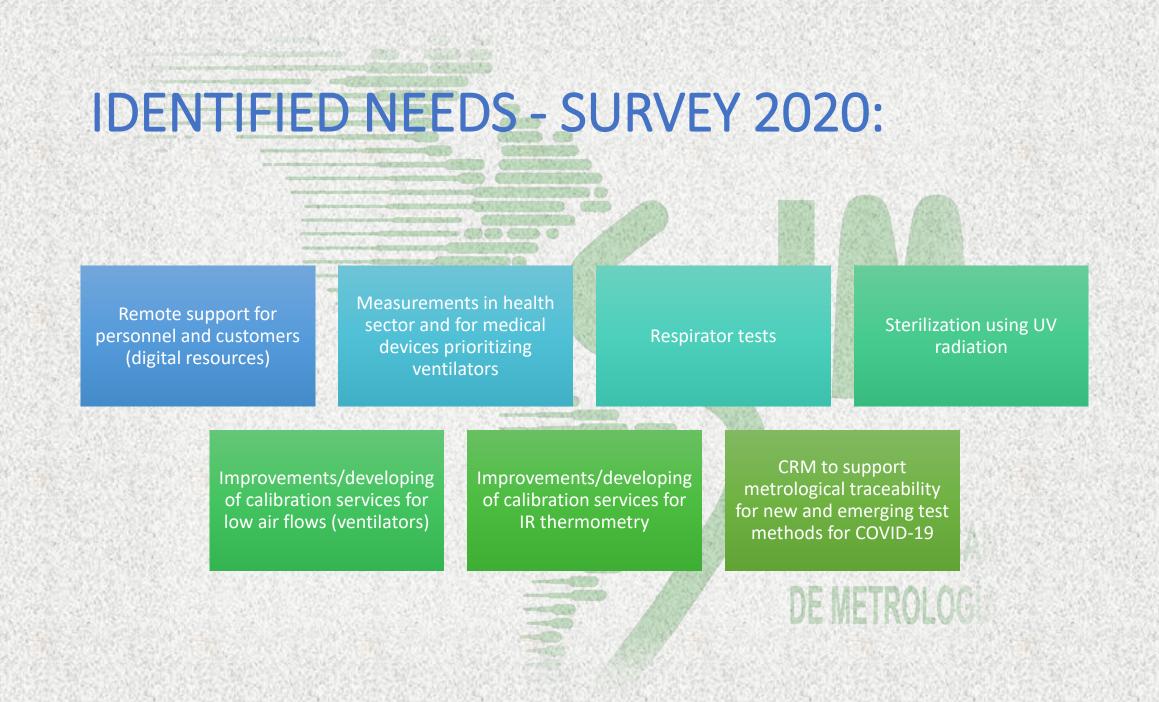
SIM Report to the AFRIMET General Assembly 28th July 2021

Claire Saundry SIM President





## SHARING PANDEMIC **EXPERIENCES:** June 2020



of P. Salvasian Debaseries VI.

Robert, permitte macdonald

Margolationa Have Cally Briss Insue Gialities **Salation** Hunter

Inter DAPE

whith the site Waterparty

partille.

SISTEMA MFR **DE METROLOG** 

Darmen Marina Iraji

Lina Ganare

Andrew Dave

Velnet confid

Street Reven Alle

Amore DAUG 114 Second Miller

Statement Parlan

**Talunder Exhaustria II** 

CINI.

georgette macdonald

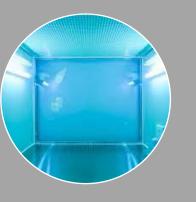
Relati

Armebra (Sillares -318)

## 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







		Member NMIs	Associate member Dis	All Dis
	Economy			
1	Canada	NRC		тсс
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 UCI
18	El Salvador	СІМ		
19	Guatemala	CENAME		
20	Honduras	СЕНМ		
21	Nicarágua	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	ENAED IDIC ISDCH	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
- 5 additional DIs join SIM as Associate Members
- 1 New Active Member Dominica
- 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 NIST USA



**Javier Arias** 

**CENAMEP** Panama



PDC Rodrigo Costa-Felix INMETRO Brazil





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

CBKT WORKSHOP For CARICOM January 2021 BIPM Workshop – SI in FAIR Digital Data February 2021

Early Career Metrologist Competition Launched in cooperation with NCSLI in 2020 2021 Competition finished- 3 winners (from Noramet, Andimet and Suramet) Remote Peer Reviews and Internal Audits <u>https://sim-</u> metrologia.org/2021/03/10/remote-peer-reviews-andinternal-audits-guidance-from-sim-mwg-12-and-qstfmembers/

Measurement Uncertainty: https://sim-metrologia.org/wpcontent/uploads/2020/10/PossoloMeija2020-MeasurementUncertainty.pdf

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

#### Workshop on Metrology and Digital Transformation – SIM-PTB (Virtual, 07-2020)

Next Events: Monthly "Metrology For DT days" Next event 7<sup>th</sup> Metrology for DT Day July 29 (Lab. automation )

M4DT Conference 1-2 September

#### 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

SIM Participation in COOMET Early Career Metrologist Competition April 2021

Metrologists and experts share experiences in the fight against the global pandemic

1.7 July Inv Id. V. J. 9, Inv Id. 1, VA

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 <u>https://sim-metrologia.org/about-us/structure/quality-system-task-forceqstf/</u>
- Convened a Webinar on "Peer Review and Internal Audits" including remote assessments - 9 March 2021: <u>https://sim-</u> <u>metrologia.org/2021/03/10/remote-peer-reviews-and-internal-audits-</u> <u>guidance-from-sim-mwg-12-and-qstf-members/</u>
- 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 digitalizating processes (Call for research projects ended 12<sup>th</sup> July)

#### **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 ongoing metrology activities related to Health

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











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

11111111

DE METROLOG

## AMERICA

SISTEMA INTERAMERICANC

DE METROLOC'

### **QUESTIONS?**