

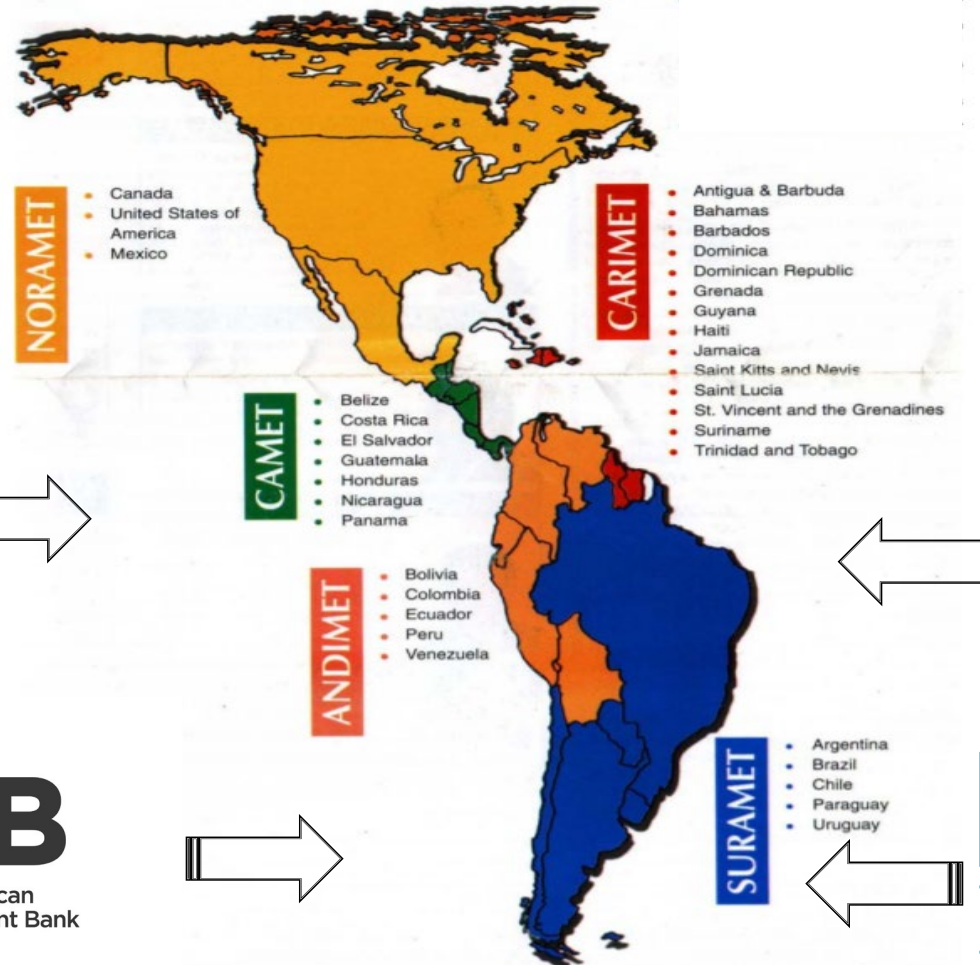
General Assembly
Virtual meeting
18-19th November
2020

SIM WEEK 2020 Project Coordinator's GA Report

Javier Arias
Project Coordinator
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SISTEMA
INTERAMERICANA
DE METROLOGIA

SIM Project Sponsors / Patrocinadores de los proyectos del SIM



Quality Infraestructure, Regional Integration, Technical & Industrial Development,
Competence Development, Scientific improvement, International Recognition

QICA – SIM PROJECTS

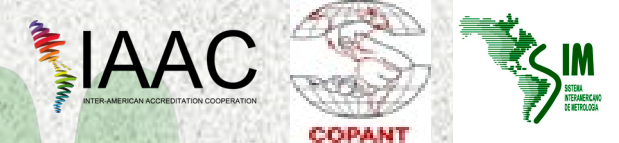
(Quality Infrastructure of the Americas)

• TRAINING & WORKSHOPS

- Calibration Intervals
- Risk Management



Quality Infrastructure Council of the Americas



NCSLI – SIM PROJECTS

(National Conference of Standards Laboratories International)

1. SIM Regional Early Career Metrologist Paper Contest

- 5 SIM Regions
- 5 or less years as a Metrologist



2. SIM Free Spanish Webinars

- Risk management according to ISO / IEC 17025: 2017
- Metrology in chemistry in the measurement of the efficiency of respiratory protection devices (RPD)
- Infrared thermometry and COVID-19



OAS – SIM PROJECTS

(Organization of American States)



- **(M4SET) Metrology for Sustainable Energy Technologies and the Environment Project for Americas**
- “Strengthening of technical capacities in quality control for air quality monitoring networks in LAC”
 - **ACTIVITIES:**
 - 3 Webinars AUG-Importance of Ozone measurements traceability & Air-quality Control Standards.
NOV-Disseminating Ozone Standard to quality control & monitoring equipment.
3rd- TBD
 - 1 Inter-comparison (NIST-CALAI-INECC),
 - Photometers Calibration
 - **BENEFICIARIES:** 10 institutions from ARG, BRA, COL, ECU, MEX, PER, URU, USA
- **(ACE) Americas Competitiveness Exchange**
 - Keep follow up to foster relationship among SIM-Entrepreneurs
 - New Enterprises/industries do not take into account QI

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NIST – SIM PROJECTS

(National Institute of Standards and Technology)



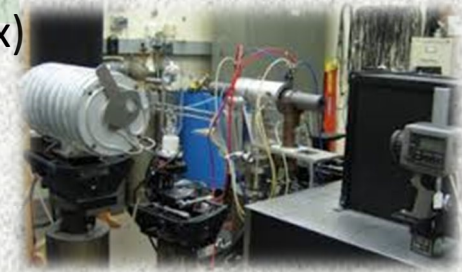
1. SIM-NIST GRANT

FINANCIAL ASSISTANCE AWARD (60NANB20D048)

- Scope of action:
“Strengthening National Metrology Institutes in the Americas and their regional cooperation through SIM, and promote QI in cooperation with partner organizations.”
- Administrator: Ms. Claudia Santo (SIM ES)”
- Payment: “This award is hereby funded through payment reimbursement only”. (SF-270, 30 days max)
- Proposed in MAR 2020, Approved in JUN, Period 01/07/2020 – 30/06/2022 (amendment)
- \$200 000,00 (Fees \$15k + Travel \$48k + Training \$131k + Others \$6k)
- **Target Related Projects:**
IR Thermometry, UV radiation & Ventilators.
- **Possible Budget re-allocation:**
 - \$5 000 for virtual platforms and equipment to support virtual meetings and trainings.
 - \$3 000 for simultaneous translation for meetings.
 - \$5 000 for publications translations and designs.



DEPARTMENT OF COMMERCE RESEARCH PERFORMANCE PROGRESS REPORT (RPPR)



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IDB – SIM PROJECTS

(Inter-American Development Bank)

- **WEBINARS**

- M4DT

- **REGIONAL PROJECT**

- **Metrology for DT to support health services in LAC & address measurement challenges related to pandemics such as COVID-19**

- Contact: Mr. Hector Laiz (Former President)

- Participants: 23 (18 beneficiaries + 5 partners)

- Period : 36 months, starting from SEP 2020

- Funds: \$500 000,00

- 3 Components:

- 1. Information & Awareness
 - (i) Diagnostic Study on M4DT of health services
 - (ii) Work Plan to develop Pilot Solutions for at least 2 obstacles or opportunities
 - (iii) 4 workshops to disseminate the plan within the SIM Sub Regions
- 2. Development of Regional Pilot Projects for calibration & Verification services in medical devices
 - (i) 4 I+D+i Pilot Projects on M4TD
 - (ii) At least 1 Project using a Regional Metrological Cloud Technology
 - (iii) 3 courses associated with digitalization of metrological services in health
- 3. Institutional Strengthening (Support SIM ES & MWG travel expenses)



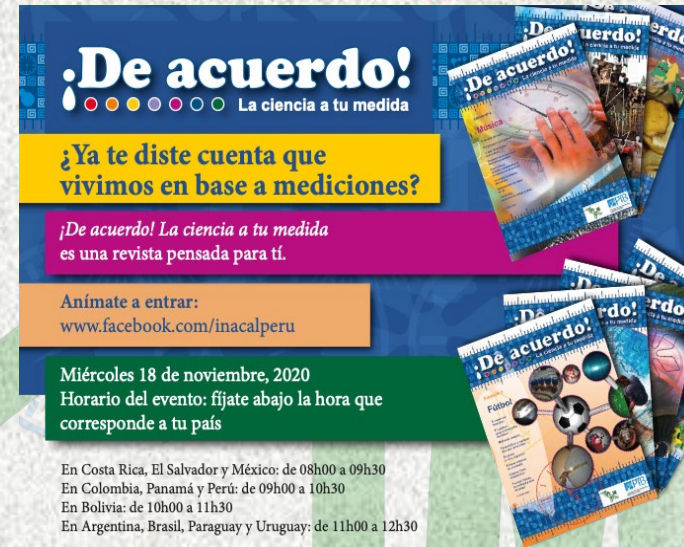
PTB – SIM PROJECTS

(Physikalisch-Technische Bundesanstalt)



1. WORKSHOPS

- QICA
- M4DT –JUL (DCC, I4.0, Legal Metrology, Process Automation, NMI Digital Strategy)



2. REGIONAL MULTI ANNUAL PROGRAMMES

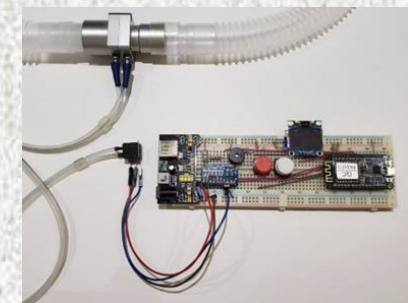
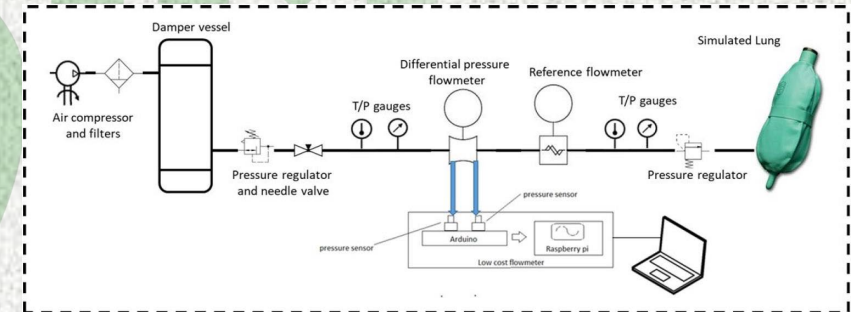
- De Acuerdo Magazine
- 2014-2021 QI for Biodiversity and Climate Protection in LAC (EU 4 000 000,00)
- 2016-2020 QI for Renewable Energy and Energy Efficiency in LAC (EU 3 000 000,00)

3. DEVELOPMENT OF BASIC METROLOGY INFRASTRUCTURE TO SUPPORT MEDICAL TESTING EQUIPMENT

(VENTILATORS)

- Contact: Mr. Hernán Brenta (INTI)
- Participants: 13 NMI (ARG, BOL, BRA, COL, CRC, ECU, GUA, MEX, PAN, PAR, PER, SAL, URU)
- Period : 12 months, starting from NOV 2020
- Funds: EU 100 000,00 (\$120 000,00)
- Activities:

1. Design and development of a Low-cost Flowmeter for mechanical ventilators
2. Design and build a Lung Simulator as a basic infrastructure for the testing of mechanical ventilators
3. Improve and strengthen the micro-volume calibration processes in LNM-INEN
4. Virtual workshop: Technical & knowledge exchange in micro volume & low-pressure gas flow measurements
5. Low pressure gas flow and low volume comparisons between pre-equipped NMIs
6. Presential Training and Awareness event (TBC)



SIM PROJECTS

(Sistema Interamericano de Metrología)



1. SIM Intra Regional Activities

- **TC PROJECTS & Sub Regional PROJECTS**
- **CAMET**
 - Intra regional support to CENAME
- **ANDIMET**
 - New CRM (NORMET & SURAMET
 - Temperature Comparison (all regions)
- **CARIMET**
 - 3 New Reference Labs
(Pressure, Humidity & Electricity)

2. Webinars & Workshops

- **EXTERNAL** RMO-China;
BIPM – JCRB-Capacity Building
- **SIM** OAS – NCSLI – QICA
- **NMI** CENAM – El Club de la Balanza, Ley de la IC
INACAL – World Standards Day

3. SIM Advisory

- **CONSULTANTS** Professional support to Inter or Intra organizations

SIM

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1. Support to Guatemala National QI

• TRAINING

- Mass
- Volume
- Temperature
- Pressure
- Dimensional
- Viscosity & CRM for pH
- Electricity and T&F

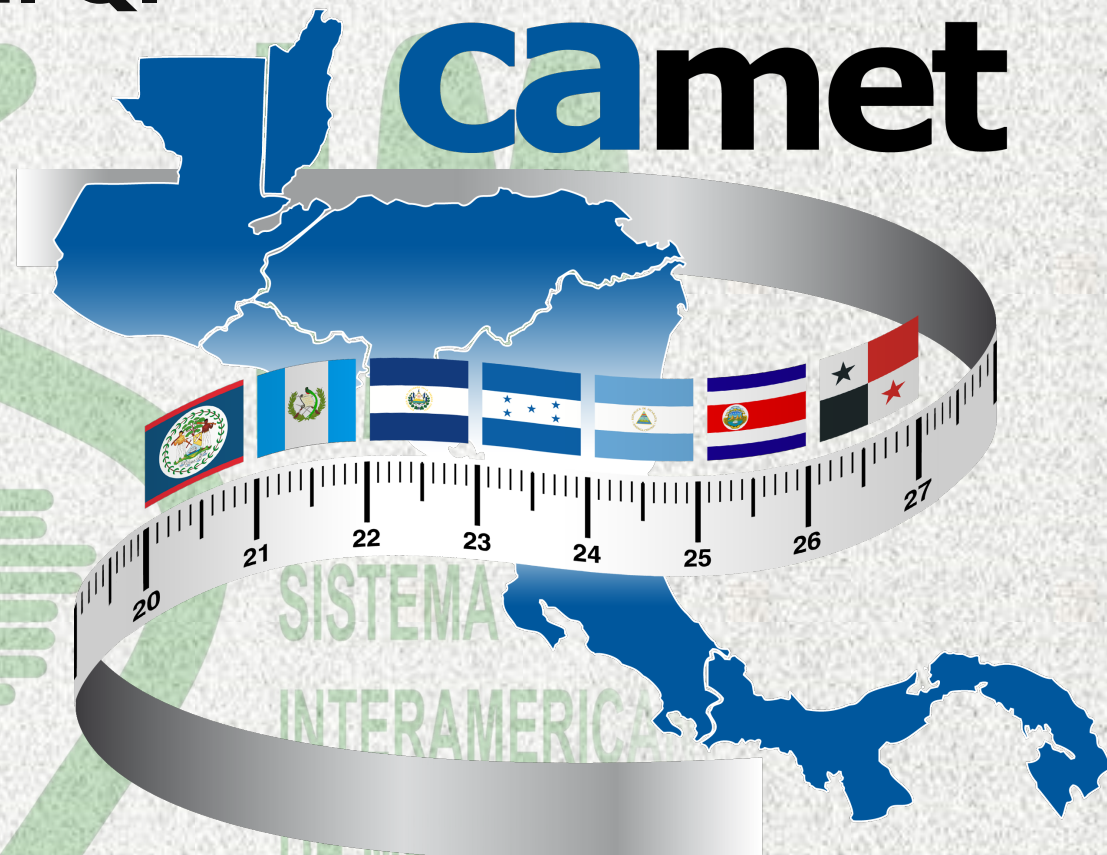
• LEGAL METROLOGY

- Water Meters
- Electrical Meters
- Alcohol Meters
- Pre-packaged Products

2. Inter Comparisons

• ELECTRICITY

- CIM – CEHM – CENAMEP AIP



“Development and implementation of analytical tools to quality assurance and metrological traceability in the measurements of toxic elements in Amazonian fish”

2018-2021

Objectives:

1. Development of primary and no-primary (speciation analysis) methods that to support the metrological traceability of mercury species in fish.
2. Develop a reference material for mercury total in fish.
3. To promote knowledge and technology transfer by providing support to conformity assessment laboratories.



Colombia prepares a Reference Material

Countries



Advisor



Implementado por:



Con el apoyo de:



Comparison in temperature, basis for CMC publication

Colombia (SIM) the coordinating laboratory

PTB (EURAMET) is the pilot laboratory



Comparison between INMs for Industrial type PRTs calibration by comparison over the range from - 40 °C to 420 °C



Loop 1



Loop 2

N	Country	Laboratory
1	Ecuador	INEN
2	Perú	INACAL
3	Bolivia	IBMETRO
4	Chile	CESMEC
5	Argentina	INTI
6	Uruguay	LATU
7	Paraguay	INTN
8	Brasil	INMETRO

N	Country	Laboratory
1	Panamá	CENAMEP AIP
2	Honduras	SNC
3	El Salvador	CIM
4	México	CENAM
5	Trinidad y Tobago	TTBS
6	República Dominicana	INDOCAL
7	Colombia	INM





NEW NATIONAL REFERENCE LABS

- Mass Reference Lab in Jamaica
- Temperature Reference Lab en T&T
- Pressure Lab in T&T
- Humidity Lab in T&T
- Electricity Lab in Dom Rep



INTER REGIONAL COOPERATION

- Pressure Lab in T&T (NMI)
- Humidity Lab in T&T (MWG3)
- Electricity Lab in Dom Rep (INTI & CENAMEP AIP)



SIM PROJECTS

(Sistema Interamericano de Metrología)



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3. SIM Advisory

- **CONSULTANTS** Professional support to Inter or Intra organizations

El CLUB DE LA BALANZA
Conferencias en línea
27 y 28 de octubre de 2020
Evento gratuito | myd@cenam.mx | <http://www.cenam.mx/cb>

SISTEMA INTERAMERICANO DE METROLOGIA
Conferencia Internacional virtual por el
DIA MUNDIAL DE LA NORMALIZACIÓN
PROTEGIENDO EL PLANETA CON LAS NORMAS TÉCNICAS
13, 14 y 15 Octubre / 2020 | Plataforma Virtual ZOOM | Horario 09h00 a 11h30

Thanks for your attention!!!

Gracias por su atención !!!

Obrigado pela atenção !!!

Merci pour votre attention!!

Javier Arias
Project Coordinator
jarias@cenamep.org.pa

WEB PAGE: <https://sim-metrologia.org/projects/>



A map of the Americas showing various countries color-coded into five regions: NORAMET (North America, red), CAMET (Central America, green), ANDIMET (Andean region, cyan), SURAMET (South America, purple), and CARIMET (Caribbean, pink). A legend on the left lists these regions with their corresponding colors. The map also includes labels for various countries such as Canada, the United States, Mexico, Central American countries, Caribbean islands, and South American countries.

NORAMET
CAMET
ANDIMET
SURAMET
CARIMET

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