



# Sistema Inter-Americano de Metrología

## Activities & Opportunities for Cooperation

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# Recent and On-going SIM Activities

- **OAS/FEMCIDI** – *Strengthening National Metrology Institute in the Hemisphere, an essential element of NQI*
  - *Project began August 2013 and has sponsored training for over 250 metrologist, scientists and quality assurance personnel*
- **US/OAS** - *Renewable Energy and Climate Science: Metrology and Technology Challenges in the Americas*
  - *5 workshop with each of the SIM Sub-regions and 2 recently completed subject specific trainings on Gas Measurements and Building Energy Efficiency and Labeling*
- **NIST-SIM Engagement**
  - *2013 SIM School (53 students from 29 different countries)*
  - *Aimed at improving ties between NIST laboratory staff and their SIM counterparts*
  - *Since 2014,*
    - *11 Guest Researcher appointments. 3 Office of Weights and Measures trainees. travel to*

# OAS-FEMCIDI Metrology Project



**Anti-Venom  
Workshop**  
*Lima, Peru*  
*27 – 28 May*  
*2015*



*TTBS Metrologists Marc Aberdeen and  
Gina Temul-Tash with INMETRO Trainers*

- August 2013- 2016
- Focus on measurements for the environment, health and human welfare and trade
- 22 Internships sponsored
- Over 15 workshops, trainings, SIM Working Group and Technical Committee meetings
  - These trainings have provided valuable instruction to over 250 metrologists, scientists, and other measurement practitioners

# NIST/OAS - Renewable Energy and Climate Science: Metrology and Technology Challenges in the Americas

CAMET workshop in Guatemala

~200 people, 28-29 May 2014

ANDIMET workshop in Colombia

~150 people, 6-7 November 2014



SURAMET workshop in Uruguay

~70 Metrologists and university students, 2-4 Sept. 2014.



*CARIMET workshop in Jamaica*

*Over 100 metrologists, government officials and academic professionals from 16 different countries, April 4-5, 2015.*

# US/OAS - Renewable Energy and Climate Science: Metrology and Technology Challenges in the Americas

5 SIM sub-region workshop identified priority measurement needs in the areas of renewable energy integration, GHG and emissions measurements and energy efficiency

Workshops on *Measurement of Gas Concentrations for Monitoring Air Quality and Climate Change* (hosted by CENAM – Mexico) and *Building Energy Efficiency and Labeling* focused on technical exchange and information sharing with the intent of improving the capabilities of the region's NMIs to meet national priorities in the areas of sustainable energy usage and climate science



*Building Energy Efficiency and Labeling workshop hosted by NIST trainees discuss air conditioning and heat pump laboratory design and equipment at NIST Gaithersburg, MD facility*

# NIST/SIM/OAS Potential Follow-up Activities

- Document testing capabilities and facilities  
in member countries
- Hands on Training on building equipment and  
appliance testing
- Training on standards and other building  
performance topics
- Guest researcher visits to NIST laboratories

Note above possible areas for a 3rd Training Workshop

# NIST-SIM Partnership Activities

## **NIST-SIM “Engagement Opportunity”**

- Continuing to sponsor short (2 – 3 weeks), medium (2 – 3 Months) and long-term guest researcher (4 – 12 Months) appointments, legal metrology training courses, calibrations and SRM acquisition

## **Subject Specific Training Course**

- 4 courses designed to provide SIM Metrologist with technical measurement training with hands-on laboratory exercises

## **NIST Grant supporting the Global Metrology System**

- *BIPM Capacity Building and Knowledge Transfer for NMIs with Emerging Metrology Systems (BIPM CBKT)*
  - NIST support expected to advance key objectives of SIM.

# NIST-SIM Partnership Activities (continued)

- Abbreviated *Fundamentals of Metrology* Course during 2nd Metrology Conference in Bogota, Colombia
  - 2 day course will take place during the Summer of 2016
- SIM Chemical Metrology Working Group Training – ID/MS-based Clinical Measurement Workshop
  - Tentatively scheduled for May 2016
  - Workshop partners: INM – Colombia, LATU – Uruguay, INTI – Argentina, ISPCH – Chile, INMETRO – Brazil, and CENAM – Mexico.



# 2016 NIST Sponsored SIM Training Courses

Course*	Dates	Number of students
Fundamentals of Metrology	4 – 8 April 2016	12
ITS-90 Realization, Industrial Platinum Resistance Thermometers and Uncertainty Analysis	18 – 22 April 2016	8
Dimensional Metrology	10 – 12 May 2016	12
Time and Frequency	7 – 11 June 2016	5

\*Additional information regarding courses will be available online at [www.nist.gov/iaao/index.cfm](http://www.nist.gov/iaao/index.cfm)

- All applications – which should include a CV and “benefits” statement – should be sent to Andrew Conn ( [andrew.conn@nist.gov](mailto:andrew.conn@nist.gov) )

# NEW IDB Project

Purpose: Development and implementation of new measurement expertise available in member countries

Activities:

- Joint Research projects
- Internships
- Training
- Seminars
- Intercomparisons/pilot studies
- Innovation Forum

***Gracias!***  
***Obrigada!***  
***Merci!***  
***Thank-you!***

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