



SIM's PDC Report

Activities in 2018 and 2019

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SIM

SISTEMA
INTERAMERICANO
DE METROLOGIA

Activities to be reported

- Training and Travel assist for SIM NMIs to attend NCSL International Technical Exchange 2019
- Short courses offered by Work Place Training (e-Learning)
- Enrico Fermi Varenna Metrology school (METAS – Switzerland)
- Internships in the field of Emerging Technologies (3rd call)
- NIST-SIM Engagement Opportunity
- Optimizing the CIPM MRA – the KCDB 2.0
- NCSL International Technical Exchange 2020
- INM Colombia training opportunity
- PhD on Metrology at Inmetro

NCSL-I Technical Exchange 2019

- Travel support to assist technicians from SIM NMI
- Financial assistance to SIM NMI who typically are unable to attend hands-on technical training due to limited travel resources
 - For three days, an assortment of more than 20 short courses were offered (4 to 16 hours)
- Selection: up to 2 persons per country (from a NMI or a DI)
- Selected participants: 18 professionals from 11 countries
 - BBS (Belize); INMETRO (Brasil); INM (Colombia); LACOMET (Costa Rica); INEN (Ecuador); CIM (El Salvador); GNBS (Guyana); INTN (Paraguay); (SLBS) Saint Lucia; TTBS (Trinidad and Tobago); LATU (Uruguai)

NCSL-I Technical Exchange 2020

- Description
 - Program to be launched in the near future (Open call by October)
- Selection
 - Much probably the same approach
- Participants
 - As many different NMI as possible

PLEASE BE AWARE ABOUT THE NEAR COMING ANOUNCEMENT!!

Internships (Emerging Technologies)

- Description
 - IADB Project “Strengthening National Metrology Institutes in the Hemisphere, in support of emerging technologies”
- Selection
 - Three open calls. 2018: May 1st to 21st; Aug 1st to 27th. **2019: Aug 1st to 11th**
 - No more than 2 applications per country per open call
- Participants
 - 25 applications from 10 countries were approved and will happen until the end of 2019 (7 hosts NMI)

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 - 25 applications from 11 countries were approved and will happen until the end of 2019 (7 hosts NMI)
 - Participants: INTI (Argentina); INMETRO (Brasil); INN (Chile); INM (Colombia); INEN (Ecuador); GNBS (Guyana); CENAM (Mexico); CENAMEP (Panama); INACAL (Peru); TTBS (Trinidad and Tobago); LATU (Uruguay)
 - Hosts: INTI (Argentina); INMETRO (Brasil); NRC (Canada); INM (Colombia); CENAM (Mexico); LATU (Uruguay); NIST (USA)

Courses offered by Work Place Training (e-Learning)

- Professional Development for SIM Countries
- Many different courses
 - Analytical/Process (40 hours of content)
 - ISO/IEC 17025 Compliance (50 hours of content)
 - Electrical (45 hours of content)
 - Dimensional - 45 hours of content
- Other titles: Safety in the Calibration Lab; Certified Calibration Technician Exam Prep; Metrology Applications for Engineers and Scientists
- Contact: Paul Hanssen, Director of Elearning, WorkPlace Training, an A2LA Company (phanssen@wptraining.com; www.wptraining.com)

Enrico Fermi Varenna Metrology school (METAS)

- The program is particularly aimed at young metrologists
 - It is intended for PhD students and early post-docs
- Submission finished APR2019
 - Not controlled by SIM, just informed to NMI
- Courses happened in JUL2019
 - <https://www.bipm.org/en/cbkt/varenna-metas-2019.html>

NIST-SIM Engagement Opportunity

- It is not a PDC activity, but it was circulated within SIM
- Applications
 - Approval by NMI or DI management
 - NMI or DI must be an Active Member with SIM to receive support.
- Evaluation Criteria
 - Support is provided to as many NMIs as possible
 - New activities/partnerships will be given priority
- NIST Contact Information
 - Andrew Conn (andrew.conn@nist.gov)
- **DEADLINE: 11 October 2019**

Optimizing the CIPM MRA – the KCDB 2.0

- Purpose: equip RMO TC/WG Chairs and TC/WG members
 - It is aimed at those who coordinate the review and act as reviewers of KCDB
- The course will be held at the BIPM from 4th to 8th November 2019
- Following SIM/MWG will be represented:
 - Mass; Flow and Volume; Length; Thermometry; Acoustics, Ultrasound, and Vibration; Time and Frequency; Ionizing Radiation; Electricity and Magnetism; Quality System
- Following NMI will be represented at the course:
 - INACAL (Peru); CENAM (Mexico); INMETRO (Brasil); INTI (Argentina); INM (Colombia); NIST (USA); NRC (Canada)

Training opportunity at INM Colombia

- Tutorial and Workshop on **Proficiency test and Interlaboratorial comparisons**
- Instructor
 - Antonio Possolo, PhD, NIST fellow and Chief Statistician
- Selection: to be announced
- Date: 3 days in March 2020 (to be defined)
- Target audience
 - Metrologists from INM CO and other SIM's NMI and DI
- **Possible air ticket support for a limited attendees**

Master degree in Metrology and Quality

- Post-graduation at Inmetro
 - *Stricto sensu*
 - Virtually all areas of metrology and quality
 - More than 100 “experts” to help on the research
- Selection: until Sep 30th
 - http://www.inmetro.gov.br/ensino_e_pesquisa/mpmq/
- Up to 30 students will be selected
 - The applications and selection steps can be on-line
 - Possibility of scholarship
 - Classes in Portuguese

Post graduation on Biotechnology

- Master and Doctor degrees
 - Stricto sensu
- Selection: until Oct 16th
 - http://www.inmetro.gov.br/ensino_e_pesquisa/ppgbiotec/
- Up to 20 students (10 MSc + 10 DSc) will be selected
- The applications and selection steps can be on-line
- Possibility of scholarship
- Classes in Portuguese

Master degree and PhD on Metrology

- **NEW COURSES – started in 2019**
- Master and Doctor degrees
 - *Stricto sensu*
- Selection: until Sep 30th
 - http://www.inmetro.gov.br/ensino_e_pesquisa/ppgm/
- Up to 30 students (20 MSc + 10 DSc) will be selected
- The applications and selection steps can be on-line
- Possibility of scholarship
- **Classes in Portuguese (special classes for foreign to be discussed)**

New opportunities to come ...

- **Please, let me know**

- All kind of training and capacity building opportunities are welcome
- Trainings, courses, workshops and other capacity building offers may be sent to rpfelix@inmetro.gov.br

- Selection

- Rules to be defined by the proposing organization

- Participants

- NMI's technicians are on focus





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