SIM’s PDC Report

Activities in 2018 and 2019

Rodrigo P.B. Costa-Felix, DSc
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 (Uruguay)
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 1\textsuperscript{st} to 21\textsuperscript{st}; Aug 1\textsuperscript{st} to 27\textsuperscript{th}. 2019: Aug 1\textsuperscript{st} to 11\textsuperscript{th}
  • 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)
Internships (Emerging Technologies)

• Selection
  • Three open calls. 2018: May 1\textsuperscript{st} to 21\textsuperscript{st}; Aug 1\textsuperscript{st} to 27\textsuperscript{th}. 2019: Aug 1\textsuperscript{st} to 11\textsuperscript{th}
  • No more than 2 applications per country per open call

• Participants
  • 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
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; Lenght; Thermometry; Acoustics, Ultrasound, and Vibration; Time and Frequency; Ionizing Radiation; Eletricity 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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