

CARIMET REPORT

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SIM General Assembly
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Punta Cana, Dominican Republic

CARIMET
The Caribbean sub-region of





Presentation Outline

- Legislation
- Attachments & Training
- Promotion of Metrology
- Facilities Upgrade
- New Services
- PTs and Inter-comparisons
- Other Activities
- Co-operation

Legislation

CARIMET Member	Legislation Activities
Bahamas	Revision of weights and measures legislation to comply with WTO TBT agreements.
Barbados	Draft Cabinet Paper for development of a comprehensive 'Metrology Act' has been prepared for presentation in November 2015.
Haiti	Metrology Law being prepared
Guyana	Currently finalizing the Draft Metrology Bill and Regulations.
St. Kitts & Nevis	Draft Metrology Act being reviewed.
St. Lucia	Participation in national consultation on Draft Electricity Supply Services



Legislation

CARIMET Member	Legislation Activities
Dominican Republic	Proposal for Metrology Law prepared 4 Technical Regulations for Legal Metrology
Trinidad & Tobago	Metrology Act proclaimed (May 2015)



Training

Activity	Participating Members
SIM T & F WG Meeting& Workshop, 27-29 January, 2015, Panama	Antigua & Barbuda , Guyana, St. Lucia
Workshop on the Assessment and Acceptance of Electrical Energy Meters type Approval Certificates, April 2015,INTI, Buenos Aires, Argentina	Guyana, St. Kitts & Nevis, St. Lucia, St. Vincent & The Grenadines, Trinidad & Tobago
Training Workshop on Measurement of Gas Concentrations for Monitoring Air Quality and Climate Change, NIST-CENAM-OAS, 8 – 10 September 2015, Mexico.	Barbados



Training

Activity	Participating Members
Caribbean Capacity Building in Metrology, Introduction to mass Workshop, June 2015, Jamaica	Guyana, Jamaica, St. Kitts & Nevis,, St. Lucia,
NIST/SIM Capacity Building Programme, NIST OWM CaMAP Training, October 2015, Puerto Rico	St. Lucia
Verification of Large Scale Weighing Instruments and Type Approval by Modules -held on April 2015, CENAMEP Panamá.	Guyana
Safety Software and Hardware for Legal Metrology on October 2015, INTI.	Guyana, Trinidad & Tobago
SIM MWG 3 Temperature Working Group Workshop and Meeting, Argentina (October,2015)	Trinidad & Tobago



Training

Activity	Participating Members
SIM Activity: “Theoretical-Practical Workshop on Calibration of Weights” August 2015, Ecuador	Bahamas, Haiti, Trinidad & Tobago
SIM Building Energy Efficiency and Appliance Labeling October, 2015, NIST – USA	Bahamas, Grenada
Calibration and Verification of LPG	Haiti
SIM Electricity and Magnetism Working Group – Brazil (August 2014)	Trinidad & Tobago
Temperature Training , Korea Institute of Standards and Science (June 2014)	Trinidad & Tobago
SIM CMWG, INDECOPI, Peru(May 2014)	Trinidad & Tobago

Attachments

Host	Participating Members
Guyana	Bahamas
Jamaica	Bahamas
Trinidad & Tobago	Haiti
Trinidad & Tobago	Guyana
Trinidad & Tobago	Dominican Republic
Brazil (INMETRO)	Trinidad & Tobago
St. Lucia	Belize
Trinidad & Tobago	Belize
USA (NIST)	Dominican Republic, Jamaica
Brazil (INMETRO)	Dominican Republic



Promotion of Metrology

- SLBS featured on World Metrology Day 2015 website
- **2015 OIML Award for Excellent Achievements in Legal Metrology in Developing Countries** awarded to Metrology Department of the St. Lucia Bureau of Standards.
 - Saint Lucia is the first Caribbean country to receive this award and the smallest country (in area and population) to receive this accolade in the seven-year history of the Award.





Promotion of Metrology

Activity	Members
Television & Radio Programmes	Antigua & Barbuda, St. Lucia
Promotion of Metrology in School	All members
Attachment to Metrology Division (College & High School students)	Grenada
Metrology outreach to Private Sector	All members
Workshops & Seminars	Barbados, Haiti, Trinidad & Tobago
The Metrology Division i(BSJ) has signed MOUs with two (2) universities (MICO teachers college and University of Technology) relating to the introduction of metrology within their curriculum. (NMI user relation project)	Jamaica

Facilities

Members	Facilities
Bahamas	Commencement of renovation of facility to be able to conduct NQI services
	5 metrology officers (2 metrologists and 2 inspectors and one technician)
Grenada	Laboratory space created for temperature and analytical chemistry labs
Haiti	Facilities for 2 Labs added
St. Kitts & Nevis	Additional Space for Metrology related services
Belize	Construction of Mass, Temperature, Volume, Pressure and Dimensional Laboratories started



Equipment

Equipment	Members
Weights, volumetric test measures (CROSQ/PTB 10 th EDF TBT Project)	Bahamas
Temperature Metrology Equipment (CROSQ/PTB 10 th EDF TBT Project)	Antigua & Barbuda, Grenada, St. Vincent & The Grenadines
Volumetric test measures (5L & 20L) Electronic Balance (62 kg x 0.01g)	St. Lucia
Mass Metrology Equipment Time & Frequency Equipment (installed)	St. Kitts & Nevis
Pipette Calibration Balance Temperature Metrology Equipment Torque Wrench Loader Torque Transducer 1 Weight Cart. 1 Canker Truck to transport Test Masses.	Guyana

Equipment

Equipment	Members
Mass & Volume Metrology Equipment (Set of weights, Balances, Seraphin Test Measure – UNIDO)	Haiti
Laboratory Equipment (Volume & temperature)	Trinidad & Tobago
Masses F1 (1 mg – 20 kg) Time & Frequency Equipment	Dominican Republic



Services

Services	Members
Temperature Metrology	Antigua & Barbuda, Grenada
Verification of LPG facilities Calibration of Mass Instruments	Haiti
Verification of Electrical Meters	St. Kitts & Nevis
Calibration of Micro Pipettes, Torque Wrenches and Concrete Blocks	Guyana
Calibration of manometers Verification of sphygmomanometers	St. Lucia
Calibration & Verification services (Mass, & Volume)	Antigua & Barbuda, Bahamas, Belize

PTs & Inter-comparisons

Activity	Participating Members
CARIMET Volume Inter-comparison (20L) (On-going)	Barbados, Grenada, Guyana, St. Lucia, St. Kitts & Nevis, St. Vincent & The Grenadines, Trinidad & Tobago, Jamaica (Pilot)
PT in alcohols (pH)	Grenada
Volume comparison (BSJ/NIST)	Jamaica



Other Activities

- Regional Workshop on Metrology and Technological Challenges of Climate Science and Renewable Energy, April 2015, Jamaica.
 - Presentations received from 10 CARIMET countries
- CARIMET Strategic planning Meeting, April 2015, Jamaica
- Conformity Assessment Meeting/Workshop, November 2015, Trinidad & Tobago
- Dominican Republic received technical assistance from INMETRO for accreditation of temperature lab.



Other Activities

- Metrology Symposium – Dominican Republic (November 2015)
- SIM General Assembly (November 2015)
- CARIMET Strategic Plan 2016 – 2020 completed (available to interested parties)
- Training in Thermometry (November 2015, Trinidad & Tobago)



Co-operation

- Peru (INACAL) – support for the development of TTBS Thermometry Lab as a Caribbean Reference Lab
- NIST – support of the BSJ Volume Lab as a CaRL & Bi-lateral volume comparison
- INMETRO – assistance & work on developing a PT for rum and e-learning project for CARIMET
- CENAM – assistance with coaching of BSJ in CARIMET's 2nd Inter-laboratory comparison (20L volumetric test measure donated by SIM)



Thank You