



Presented by:

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SADCMET TC 1 – Chair

Nairobi, Kenya

Presentation Overview

- Background and Structure
- Activities undertaken during the reporting period
- Measurement Comparisons
- Future Plans
- Capacity building/Training

Background and Members

- SADCMET is one of the SADC TBT structures which comprises NMIs of the 16 SADC member states.
- South Africa is a full member of the BIPM.
- Six SADC- NMIs are Associates of the CGPM
 - Botswana, Mauritius, Namibia, Tanzania, Zambia and Zimbabwe.
 - All 6 member states have signed the CIPM MRA.
- One more country (DRC) is in the process of joining.
- 5 Associates members ; KEBS,NIS,SON, Eithiopian Metrology Institute & Uganda National Bureau of Standards

SADCMET Structure/EXCO

Position	Country	Name
Chair	Tanzania	Ms Stella Mrosso
Vice-Chair	Botswana	Mr Shadrack Kajane
Past Chair	Eswatini	Mr Mandla Ntshakala
SADCMET	South Africa	Mr Donald Masuku
Secretariat (RC)		
TC 1 – AFRIMETS	Botswana	Mr Modiriemang Kame
and BIPM Issues		
TC 2 – Metrology	Lesotho	Ms Qenehelo Lenka
Education & Training		
TC 3 – Metrology	DR Congo	Mr Florian Ngindu
Infrastructure		
Development		
TC 4 – Metrology	Namibia	Mr Simasiku Matali
Legislation		
Harmonization		
TC 5– SME	Mozambique	Mr David Magaia
Development		

SRMO Activities undertaken during the reporting period

- SADCMET held its General Assembly meeting during the SADC TBT meetings held in Luanda, Angola in a hybrid format on 14 March 2024. Keynote address from Dr Christoph Sonntag on Digital Calibration Certificates & Digital Conformity Assessment Certificates – Collaboration of NMI's in SADC on building digitalization capabilities
- SADCMET participated in the June 2024 30th ARSO GA meeting in Nigeria.
- APMP meetings
- Recomendation SADCMET & AFRIMETS to participate in APMP meeting to learn,collaborate on mutual project,share expertise & information
- 47th JCRB meeting held in Costa Rica 18 22 September 2023, Afrimets represented by Dr Wynand Louw – NMISA,Prof Khaled & Dr Henry Rotich. Next JRCB meeting slated for 16th September 2024.
- SADCMET honoured Dr Louw for his outstanding contribution to Metrology in SADC & Africa
- SADCMET is also actively participating in PAQI activities

SRMO Activities undertaken during the reporting period

- Every year, SADCMET runs the SADC Water PT scheme for the chemistry and micro-biology analysis of water sponsored by PTB and after each PT round an evaluation workshop is organized to evaluate the results of all the participating laboratories in the Chemistry and Microbiology analysis of water in Africa.
- More than 100 laboratories from most of the AFRIMETS countries participate in the Water PT scheme.
- Due to delays in distribution of PT samples, the 2023 evaluation workshop to evaluate the results of the 20th chemistry PT round and 15th microbiology PT was not held. October 2024 evaluation w/shop for 2022 & 2023 PT rounds to be conducted in Namibia by NamWater.
- Training in Pressure metrology underway- Theory done 01/24 and practical 08/24 (sphygmomanometer calibration)

Measurement Comparisons

- SADCMET NMIs especially the 6 Associates of the CGPM are continuing to participate in the AFRIMETS supplementary comparisons in the fields of mass,length, and temperature in support of the project for submission of CMCs in the KCDB.
- In 2019 SADCMET compiled an ILC Plan and conducted ILCs in four metrology fields namely Volume, Dimension/Length, Mass and Temperature which was funded by PTB as part of the SADCMET Five-Year Strategic Plan 2017 - 2022
- The ILC Plan aims to assist member states which are pursuing accreditation and also support those developing NMIs to gain internationally recognized measurement system and to strengthen SADC Associates of the CGPM through participation in supplementary comparisons in order for them to submit CMCs in the BIPM key comparison database

Future Plans

Future Plans include:

- Capacity building in Pressure Metrology (Project proposal has been approved and funds already committed)
- Support for ILCs closing workshops in the two remaining fields of Volume and Temperature
- Support for development of the new SADCMET Five Year Strat Plan 2024-2029
- Open ILC system- TC1 vice Chair

FUTURE SADCMET ILCs

2024 – 2029 Strategy plan – Dares-salaam, TZ 09/2023. Adopted during SADCMET GA – Luanda, Angola – March 2023.

- Structure, Codes of procedures, ILC's, Funding, etc
 - Metrology focus (ILC)
 - Length Feeler Gauge, Levels, Squares, damping level/survey instruments.
 - Force Compressive, Tensile & Torque wrenches
 - Humidity
 - Time & Frequency Timers, Rotational instruments.
 - Electrical Energy Meter, Power Meter, Multimeters, Earth leakage meters
 - Chemistry pH meter
 - Volume Flow meter

Future Plans

- SADCMET to train metrologists in various fields, enrich,capacitate,re-fresher.
- NMISA has established an African Reference Institute (ARI)
- Main objective is to serve as a reference measurement interface with collective expertise and capability in the context of the African Continental Free Trade Area (AfCFTA)
- The establishment of the Institute is to serve as an aggregator between government, academia and Industry – a gateway by providing training, reference measurement, and calibration services
- The Training Centre is pivotal and is supported by the Analytical Reference Measurement laboratories and the Industry Metrology laboratories
- Providing training in reference measurement expertise, calibration, and consultancy in those fields critical to economic growth in South Africa and the African region.

Training categories

- Classroom training
- On-line (Teams or Zoom) training
- On-line self-study training
- Hands-on training







List of available courses

Course titles		
Introduction to Metrology	Sample preparation	
UoM (Analytical)	Basic and advanced GC and MS	
UoM (Physical)	Quantitation using GC-FID	
Introduction to DC-LF	Quantitation using GC and GC-MS	
IR thermometry and Thermocouples	HPLC-MS	
Length	Chemometrics	
Dimensional calibration	Method validation	
Mass and Volume	Scientific Report Writing	
Humidity	Quality Infrastructure	
Vibration	Laser safety	
Electrical	Operational training (Methods)	
Photometry	3-D printing	
ISO 17034	ISO 17025	





Thank you

Merci