



AFRIMETS

Intra-Africa Metrology System
Système Intra-Africain de Métrologie

2009 ACTIVITY REPORTS:

WG Time & Frequency

WG Temperature

WG Photometry & Radiometry

H Liedberg

N Nel-Sakharova

WG T: Members Attending

NMI	COUNTRY	SUB-RMO
KEBS	Kenya	EAMET
BOBS	Botswana	SADCMET
TBS	Tanzania	SADCMET
GSB	Gana	SOAMET
IQM	Burkina Faso	SOAMET
LPEE-LNM	Morocco	MAGMET
NMISA (Chair: Mr Hans Liedberg)	South Africa	SADCMET

WG T: Additional Members

NMI	COUNTRY	SUB-RMO
INNQ	Mozambique	SADCMET
MBS	Malawi	SADCMET
MSB	Mauritius	SADCMET
NIS	Egypt	NEWMET
QSAE	Ethiopia	NEWMET
SBS	Seychelles	SADCMET (Associate)
SIRDC-NMI	Zimbabwe	SADCMET
UNBS	Uganda	EAMET
ZABS	Zambia	SADCMET

WG T: Comparisons

- In progress:
 - AFRIMETS.T-S1 (Calibration of Industrial PRTs)
 - Range: -50 °C to 450 °C
 - 14 participants
- Planned:
 - Noble-metal thermocouple (0°C to 1200°C): mid-2010 to end-2011
 - Temperature controller/display unit (by electrical simulation): 2012
 - Radiation thermometer (0°C to 1000°C, or 600°C to 1600°C): 2012

WG T: Training Workshops

- Completed:
 - Liquid-in-glass thermometer calibrations: Held in Mauritius in 1999, before SADC.T-P1.
 - Calibration of industrial PRTs: Held at NMISA in Oct 2008, before AFRIMETS.T-S1.
 - Thermocouple calibration (including electrical simulation of thermocouples): Held at BOBS in May 2009.
- Planned:
 - Pre-comparison training workshop before the second loop of AFRIMETS.T-S1
 - Calibration of liquid-in-glass thermometers, as well as a comparison in this field to NMIs with newly formed Thermometry laboratories.

WG T: Intra-RMO Review of CMCs

- Procedure for review and submission of AFRIMETS Thermometry CMCs circulated
- Formal request to members to submit CMCs for review
- Suitable reviewers within AFRIMETS to be proposed

WG T: General

- A sub-WG on Humidity Metrology to be established depending outcome of survey by NMISA
- Future surveys of NMI capabilities also to include the metrology needs in industry in surveyed countries

WG PR: Members

NMI	COUNTRY	SUB-RMO
KEBS	Kenya	EAMET
NIS	Egypt	NEWMET
NMISA (Chair: Ms Natasha Nel-Sakharova)	South Africa	SADCMET

WG PR: Comparisons

- Planned:
 - Luminous intensity
 - Participants: KEBS, NMISA (pilot), ITRI (APMP), NML-ITDI (APMP)
 - Link to CCPR-K3.a
 - Measurements to start before the end of 2009
 - Luminous responsivity
 - Participants: KEBS, NMISA (pilot), NML-ITDI (APMP)
 - Supplementary comparison
 - Measurements to be completed by end 2009
 - Luminous Flux
 - Participants: NMISA (pilot), ITRI (APMP), NML-ITDI (APMP)
 - Link to CCPR-K4
 - Measurements to start before the end of 2009

WG PR: CMC reviews

- New CMCs for NMISA submitted at the end of November 2008 for APMP intra-regional review
- NMISA reviewed SIM.PR.4.2008 CMCs for AFRIMETS in February 2009

WG PR: General

- Guest metrologist from KEBS, Mr Sammuel Mutuku Musyoki, currently visiting NMISA
- Photometry & Radiometry training workshop to be considered in conjunction with the CIE Session 2011 to be held in South Africa.