

Report from the first TCEM
WG of Afrimets
On behalf of
Alexander Matlejoane,
TCEM chair



Who were the participants?

- Five participants
- Four countries
- IAEA, EAMET (KEBS), MAGMET (LNM/LPEE), SADC MET (NMISA and TBS)



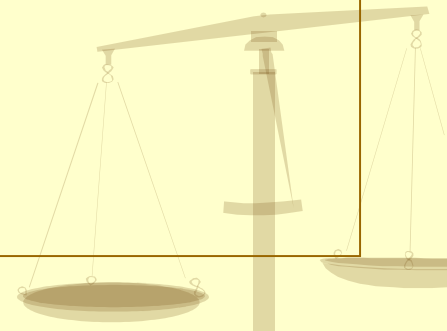
Chairman's Report

- Pilot comparison on dc voltage 10 V initiated in 2007 and kicked off in May 2008.
- Comparison is ongoing and three participants, Kenya, Uganda and Tanzania finished with their measurements. Kenya and Tanzania have already submitted their reports while a report from Uganda is still outstanding.



Chairman's Report cont.

- The comparison is scheduled to be completed by December 2009. It was noted by the chairman that most AFRIMETS members are not active in RMO activities.



MRA Appendix C Matters

- No CMC submissions for intra-RMO review
- Busy with inter-RMO reviews for EURAMET and SIM
- Members encouraged to submit CMC's
- Report from CCEM meeting at BIPM
 - Planned CCEM key comparisons:
 - AC voltage using current sources with harmonic content; High value capacitance proposed by VNIIM; AC shunts and Magnetic flux density.



AFRIMETS EM GT-RF CMC Review Committee

- Alexander Matlejoane-NMISA
- Gibson Aguko-KEBS
- Abdellah Ziti-LNM/LPEE
- Erik Dressler-NMISA
- Alphonse Kagoma-TBS



Proposed AFRIMETS Comparisons

- Key comparison on dc voltage reference at 10 V.
- Arrangements for this comparison will be finalised after completion of the ongoing 10 V pilot comparison.



Other issues

- Documentation of a draft document/guide related to the procedure for CMC submission is in progress and shall be circulated to the WG-EM members for comments and approval.
- The WG-EM proposed the following minimum requirements as inputs for the SADCMET planning workshop to be held on 15th July 2009 after the WG-EM meeting:



Other issues cont.

- Dc voltage: 1 mV-1000 V
- Dc resistance: 1 m Ω -10 k Ω
- AC/DC transfer difference in current: 10 mA-20 A at 10 Hz to 5 kHz
- AC/DC transfer difference in voltage: 10 mV-1 kV at 10 Hz-100 kHz
- Capacitance: 1 pF-1 μ F at 10 Hz to 20 kHz
- Inductance: 100 μ H-10 H at 10 Hz to 20 kHz
- 3-phase power and energy: 240 V, 100 A at 50 Hz

