

TCL- Length/dimensional feedback

2011

O Kruger



From 2010

- Discussed CCL working group structure. In which working group will AFRIMETS be active ie (working group CMC's ect)
- Questionnaire to be drawn up and distributed through AFRIMETS
- Draft a comparison schedule.
- Input into CCL working group strategy from AFRIMETS perspective
- CMC reviews.



Comparisons.

SADCMET LS 1, Gauge blocks

SADCMET LS 7, Line standard, Steel Rule

SADCMET LS 11, Two external micrometers and two length setting pieces

Comparisons delayed in various countries. Only four NMIs completed measurements in previous year.

AFRIMETS LS 1 (UN sponsored), Artefacts ordered end of last year but not yet received. Grade gauge blocks required is not of the self item.



Length comparisons

Number

AFRIMETS comparisons

Afrimet-LS1, 2010

Gauge blocks, up to 100 mm

Afrimet-LS7, 2011

Line scales up to 500 mm

Afrimet-LS?

Dial indicator

SADCMET comparisons

SADC-LS 1

Gauge blocks, up to 100 mm

SADC-LS 7

Line scale, 1 m rule

SADC-LS 11

External micrometer, 0-25 mm & 25mm-50 mm
and two microemeter setting pieces



- CMC review panel – Will use NIS to assist with reviews. Build expertise register
- Web site for working groups to include:
 - Training facilities available
 - Comparison data base
 - Research projects
 - Expertise register



Length working group Roadmap

- Assist firstly NIS to become CCL member, must first become associate member
- Assist Countries entering CMC in database
- Sponsorship
- Attendance
- Training:
 - Laser distance measuring systems
 - Gauge block interferometry
 - Pilot lab for comparisons
- R&D projects:
 - Tape calibrations
 - Level calibrations
 - Theodolite calibration-volume/surveyor
 - Phase shifting interferometry
 - True North calibrations
 - Trends in Length metrology



Projects in AFRIMETS Length/Dimensional

