



**AFRIMETS**  
Intra-Africa Metrology System  
Système Intra-Africain de Métrologie



# **TCL WG**

## **Length feedback**

### **2019**

*Presented by: Dr. Osama Terra*

*Vice-chair of the TCL*

## Attendance (TCL-2019)

- 1- Dr. Osama Terra (NIS- Egypt)*
- 2- Dr. Ahmed ELMelegy (NIS-Egypt)*
- 3- Lhossein Mechmour (LPPE/LNM- Morocco)*
- 4- Bede Obayi (NMI/SON- Nigeria)*
- 5- Tadesse Gergiso (NMIE, Ethiopia)*

## Report from CCL and news (TCL-2019)

1- The report of CCL-2018 that held at BIPM has been presented.

2- The membership of NIS-Egypt has been granted as official observer at CCL at the CCL-2018 meeting.

# Elections

It has been decided that the present chair and vice-chair continue to the next round

1- Chairman: Oelof Kruger.

2- Vice-Chair: Osama Terra

# Finished comparisons (TCL-2019)

*Line scale comparison (LS 7) - Draft B*

*Pilot (NMISA-South Africa)*

*Participants: (NIS-Egypt, LPEE/LNM-Morocco, BOBS-Botswana, SIRDC/NMI-Zimbabwe, TBS-Tanzania)*

# Planned comparisons (TCL-2019)

## *1. Bilateral comparison: Gauge Block by Interferometry*

*(NMISA-South Africa (Pilot) and NIS-Egypt)*

*Had some problems last years with (Interferometers and Artifacts)  
Hoping this year to start.*

## *2. Hand Instrument (Micrometer, Caliper, Dial gauge)*

*NIS-Egypt (pilot)*

*Participants (LPEE/LNM-Morocco, NMI/SON-Nigeria, NMIE,  
Ethiopia, BOBS-Botswana, SIRDC/NMI-Zimbabwe, TBS-  
Tanzania, NMISA-South Africa).*

*Preparing comparison Protocol*

# Planned comparisons (TCL-2019)

## *3. 1D measurement Instruments (on NIS premises)*

*NIS-Egypt (Pilot)*

*Participants (LPEE/LNM-Morocco, BOBS-Botswana, SIRDC/NMI-Zimbabwe, TBS-Tanzania).*

## *4. Profile Projector (on NIS premises)*

*NIS-Egypt (pilot)*

*Participants (LPEE/LNM-Morocco, BOBS-Botswana, SIRDC/NMI-Zimbabwe, TBS-Tanzania).*

# Planned comparisons (TCL-2019)

## *5. Internal cylinder (Ring)*

*LPEE/LNM-Morocco (Pilot)*

*Participants (NIS-Egypt (co-pilot), BOBS-Botswana, SIRDC/NMI-Zimbabwe, TBS-Tanzania).*

## *6. Sieves*

*LPEE/LNM-Morocco (Pilot)*

*Participants (NIS-Egypt (co-pilot), BOBS-Botswana, SIRDC/NMI-Zimbabwe, TBS-Tanzania).*



# Planned comparisons (TCL-2019)

## *7. Bevel Protractor (Ring)*

*NIS-Egypt (Pilot)*

*Participants (LPEE/LNM-Morocco, BOBS-Botswana, SIRDC/NMI-Zimbabwe, TBS-Tanzania).*

## *8. Square angle*

*NIS-Egypt (Pilot)*

*Participants (LPEE/LNM-Morocco, BOBS-Botswana, SIRDC/NMI-Zimbabwe, TBS-Tanzania).*

# Under Planning comparisons (TCL-2019)

## *1. Bilateral comparison: EDM (laser distance meter)*

*(NMISA-South Africa , NIS-Egypt)*

## *2. Bilateral comparison: Optical Frequency Comb*

*(NIS-Egypt, NMISA-South Africa)*

*(It is a challenge, although it is important, around 9 countries worldwide have published CMC in this activity).*

## Training (TCL-2019)

**NIS –Egypt:** *offers training and consultation in most of length activities (Optical frequency measurement, Gauge block by interferometry or mechanical, dimensional measurements)*

*Language: English, Arabic*

**LPEE-LNM, Morocco:** *offers training in most of dimensional measurements activities.*

*Language: French*

**Thank you for attention**