



# AFRIMETS

Intra-Africa Metrology System  
Système Intra-Africain de Métrologie

AFRIMETS TCAUV/12-03  
15/06/2012

## AFRIMETS TC meeting for Acoustics, Ultrasound and Vibration

Meeting at BIPM, Paris  
Friday 15 June 2012 at 9: 00 till 13:00  
Lunch: 13:00

### RMO TC Representatives:

**AFRIMETS Mr Ian Veldman (NMISA)**  
**Chairman**

[CSVeldman@nmisa.org](mailto:CSVeldman@nmisa.org)

### NMI TC Representatives

KEBS Mr Anderson Maina

[mainaa@kebs.org](mailto:mainaa@kebs.org)

### Minutes

#### *Friday, 15 June 2012*

1. Welcome to the 2<sup>nd</sup> AFRIMETS TCAUV meeting
2. Appointment of Rapporteur  
The members agree that minutes will be noted by the Chair as the meeting progresses.
3. Confirmation of the agenda  
Agenda is closed.
4. Members introduction  
Members are well known to each other and no formal introduction was required.
5. Confirmation of previous minutes  
Minutes were accepted/confirmed in KENYA after the 1<sup>st</sup> meeting.
6. Actions from Previous meeting  
All previous actions have been cleared to the satisfaction of the meeting.
7. Feedback from CCAUV meeting (Chair)



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The CCAUV was attended by all AFRIMETS TC AUV participants. Members are encouraged to observe the minutes from CCAUV.

- Progress on quite a number of CIPM comparisons was discussed.
  - It was reported that one device used for CCAUV.V-K2 was not stable. It was agreed that only the results from the single ended device will be used to support CMCs. The data from the back to back device will be made available to all participants.
  - AFRIMETS.AUV.V-S3 (secondary vibration calibration of single ended devices, 10 Hz to 10 kHz) was reported. The meeting was reminded that comparisons need to be registered with the BIPM before they are started. The representative from AFRIMETS confirmed that they were aware of this, but due to cost saving initiatives, the comparison was started in order to hand carry the artifacts to the European participants as part of the travel to attend the CCAUV.
  - Participants were invited to participate in the planned AFRIMETS.AUV.A-K1 comparison on primary calibration of LSP2 microphones over the frequency range 30 Hz to 25 kHz.
8. Feedback from CCAUV RMO WG meeting (Chair)
- The RMO WG will continue its efforts in harmonizing the CMC review processes of the different RMO's.
  - The first proposals to include the calibration of auxiliary equipment in the service categories have been discussed and will be refined.
  - The meeting requested the BIPM to divide the CMC spreadsheet for submission of CMC into the KCDB into three areas, Sound in air, Sound in water and Vibration.
9. Feedback from CCAUV KC WG meeting (Chair)
- The KC will co-ordinate its work with the SPWG where there is an overlap, for instance KC required to support new developments.



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- The KC WG will develop guidelines regarding the minimum information required for comparison protocols as well as a document outline for future comparison draft B reports.

10. Feedback from CCAUV SPWG meeting (Chair)

The most notable point of discussion was the terms of reference of the SPWG and the need for such a WG. It WG is tasked to develop a strategy document for short, medium and long term activities in CCAUV. This will be presented to the Directors of the NMIs and DIs to get their support. Members of the WG were requested to complete the questionnaire on the work program by mid July as input into the WG document. NMISA as a member of this WG will also represent AFRIMETS in this matter.

11. Feedback from International Committees (ISO/IEC)

Representatives from IEC and ISO presented the work program of these international standards bodies.

- Report of the ISO: Recent progress of ISO TC 108/SC3, [CCAUV/12-02](#)
- Status report of IEC TC29, Acoustics [CCAUV/12-21](#)
- Status Report TC 87 / ISO Ultrasonics [CCAUV/12-28](#)
- Status report of ISO TC43 Underwater Acoustics [CCAUV/12-39](#)

12. CMC submissions and reviews (Chair)

AFRIMETS TC AUV will follow the CCAUV RMO WG proposed CMC review process and documents. AFRIMETS propose to CCAUV RMO WG to have all relevant supporting documents submitted as part of each review request, including uncertainty budgets.

NMISA is satisfied with its CMCs submission.

Matters to resolve to get KEBS CMCs approved;

- Measurement capability supported by comparison data.
  - AFRIMETS.AUV.V-S2 (vibration)
  - AFRIMETS.AUV.A-K1 (acoustics)
- Have quality system in place and 3<sup>rd</sup> party reviewed/accredited.



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## 13. Comparisons

- AFRIMETS.AUV.V-S2
  - Protocol submitted for approval.
  - Measurements started.
  - Confirm import/export requirements/systems for Kenya and Brazil.
  - Confirm EXACT delivery addresses for KEBS and INMETRO.
  - Confirm VS-WStd-04 model number.
  
- AFRIMETS.AUV.A-K1
  - Was reported to CCAUV and other NMIs alerted to indicate their intention to participate.
  - Complete protocol and circulate to attract participation
  - Will mirror and be linked to CCAUV.A-K3
  - Pilot laboratory to be NMISA

## 14. AFRIMETS TC AUV Terms of reference

- Promote AUV metrology activities in AFRIMETS
- Co-ordinate AUV metrology activities in AFRIMETS, in line with BIPM requirements and in line with CCAUV practices
  - Realization and dissemination of the units
  - CMC reviews
  - Participation in comparisons
- Actively participate in International Standards development, ensuring African needs are considered.
- Actively disseminate all metrological aspects to AFRIMETS NMIs and African industry.

## 15. AFRIMETS TCAUV Roadmap

- Grow the TCAUV by getting more labs or institutions involved.
- Promote optimal calibration services between AFRIMETS NMIs.
- Participate in regular inter-comparison exercises in support of CMCs and method development.
- Promote/encourage ISO 17025 accreditation of member NMI laboratories.
- Support members in becoming internationally recognised by having their CMC's accepted in the BIPM CMC database.
- Strive for the three known laboratories in AUV in Africa i.e. NIS, NMISA and KEBS to satisfy the AUV calibration requirements of the African continent.



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- Actively plan to sensitise government and local industry on the importance of acoustics and vibrations measurements.
- KEBS to become active in the CCAUV, by applying for CCAUV observer member status.

16. Recommendations for actions

- a. Circulate AFRIMTS.AUV.A-K1 to NMIs so they can indicate if they want to participate.
- b. Submit AFRIMTS.AUV.A-K1 protocol to CCAUV KC WG for approval, once finalized.
- c. Send an e-mail to KEBS & INMETRO to collect import/export requirement of artifacts.
- d. Confirm VS-WStd-04 model number.
- e. Publish AFRIMTETS TC AUV terms of reference on AFRIMTES Webb site.
- f. Update AFRIMTES TC AUV roadmap & publish on Webb site.
- g. Publish minutes of AFRIMTES TC AUV meeting on Webb site.

17. Report for the GA

The Chair will summarize highlights from the minutes as a report to the GA.

18. Appointment of a Chairman for the next meeting

The meeting proposes Mr Moses Temba to take over the chairmanship. Mr Ian Veldman is available to remain chairman if Mr Temba is not available.

19. Date of next meeting

The date is to be announced by the chair. The meeting recommends a frequency of 24 months. The arrangement to meet during the CCAUV period was advantageous. Such an initiative will be supported for future meetings.