

National Institute of Standards

المعهد القومي للمعايرة



AFRIMETS Comparisons

Alaaeldin A. Eltawil Chair of AFRIMETS Mass and related quantities working group

16th CCM meeting





Afrimets TC- Mass and related quantities meeting at Emperor's Palace, Johannesburg, South Africa, 28-29 July 2015.

No. of NMIs represented in the meeting : 18 NMIs The following were the main issues

- Country reports
- Review of the running comparisons
- Technical session about standard techniques for pressure measurement
- Presentations on the redefinition of the kilogram: NMISA and NIS.
- Technical activities within the working group
- Reports from members attending international activities.

16th CCM meeting





Afrimets TCM Mass and Related Quantities meeting, 25 - 26 July 2016, Giza, Egypt

No. of NMIs represented in the meeting : 19 NMIs

The following were the main issues

Country reports

The structure of the working group was confirmed

- Chair and Vice chair
- Five sub working groups (Mass Pressure Force and Torque - volume and fluid flow – Viscosity and density) each with a chair

Review of the running comparisons.

 Report draft (B) of AFRIMETS.M.M.S6 comparison has been approved

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Technical activities within the working group:

- Research activities in Viscosity (Prof. Dr. Mostafa Mekawy, NIS)
- Research Activities on Solid and Liquid density (Eng. Mohammed Hamdy , NIS)
- Research Activities on Force, Torque & Hardness (Dr. Seif Osman , NIS)
- Dynamic Pressure Measurement (Eng. Shaker Gelany, NIS)
- Round and Ready Dissemination of the kilogram via silicon spheres (Eng Mohammed Hamdy , NIS).

Reports from members attending international activities.

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Comparison No	Description	Pilot lab	No of participants	Status
AFRIMETS.M.M-S6	Mass Cal	NMISA-South Africa	7 -AFRIMETS	Draft B
AFRIMETS.M.FF- K4.2.2015	Micropipettes Cal	NIS- Egypt	6-AFRIMETS 1-EURAMET	Draft A
AFRIMETS.M.M-S3	Mass Cal	NIS- Egypt	2 -AFRIMETS	Draft A
AFRIMETS.M.P-K2	Pressure Cal (absolute mode)	NMISA-South Africa	4-AFRIMETS 1-EURAMET	Running
AFRIMETS.M.M-K7	Mass Cal	NIS- Egypt	6-AFRIMETS 1-EURAMET	Planned
AFRIMETS.M.D-S4	Hydrometers cal	NIS- Egypt	1-AFRIMETS 1-SIM	Running

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Next AFRIMETS TCM: South Africa 31 July - 4 Aug., 2017 NMISA 70 Year Celebration



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Thank You

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