

Ionising Radiation

18-20 July 2011 Red Court Hotel and KEBS, Nairobi, Kenya Presented on behalf of **Zakithi Msimang**





IR Technical Activities

- Attended the CCRI RMO WG, May 2011
 - Rules for filling in CMC tables were reviewed for Ionising radiation
- Reviewed Inter-regional RMO CMC's:
 - APMP, COOMET, and EURAMET
- Working together with the IAEA/AFRA
- NMISA hosted a scientist from Nigeria SSDL for three months (Feb – April 2011) on expenses paid by IAEA





IAEA/ AFRA Activities

- IAEA/AFRA Training Course for Implementation of ISO 17025 held in Oct 2010, hosted by the NMISA,
 - Role of the CIPM MRA, BIPM RMO's, and the role of intercomparisons discussed
 - Countries represented:
 - ALGERIA,
 - BURKINA FASO
 - COTE D'IVOIRE
 - DEMOCRATIC REP. OF THE CONGO
 - ETHIOPIA
 - GHANA
 - KENYA
 - MOROCCO

- MOZAMBIQUE
- NIGER
- NIGERIA
- SOUTH AFRICA
- SUDAN
- UNITED REPUBLIC OF TANZANIA





AFRIMETS comparison

- A supplementary comparison AFRIMETS.RI(I)- S1 covering radiation protection level started in March 2011, piloted by the NMISA, South Africa
 - Transportation costs partly covered by the IAEA
 - IAEA and the NMISA supplied artefacts
 - Participants in the comparison include Algeria, Egypt, Ethiopia, Germany, Ghana, Hungary, IAEA, Kenya, Nigeria, Tanzania, South Africa and Sudan
 - Comparison registered in the CIPM KCDB
 - Plan to have a workshop at the end of comparison to discuss results







- There was a Regional Training Course on Uncertainty of measurements performed at SSDLs and dosimetry service laboratories from 7 to 12 May 2011, hosted by Algeria
 - Countries represented included
 - ALGERIA
 - BOTSWANA
 - DEMOCRATIC REP. OF THE CONGO
 - EGYPT
 - ETHIOPIA
 - GHANA
 - KENYA
 - MADAGASCAR

- MOROCCO
- NIGER
- NIGERIA
- SOUTH AFRICA
- SUDAN
- UNITED REPUBLIC OF TANZANIA
- ZIMBABWE







- Radiation Protection Comparison (AFRIMETS.RI(I)- S1 ongoing till 2012),
 - Air kerma,
 - Cs-137,
 - Co-60 and
 - Medium energy x-ray (50 kV to 320 kV).
- Workshop discussing the results of the above comparison







Work plan cont.

- Radiation therapy
 - Air kerma: Medium energy x-ray and Co-60
 - Absorbed dose to water: Co-60
 - •2014
- Radiation protection
 - Personal dose equivalent
 - Contamination monitor
 - 2015







Training needs identified

- Train a trainer especially for radiation protection application.
- Training of reviewing of CMC's so that the load is shared in the region.







THANK YOU

