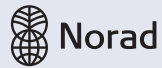




 AFRIMETS 2011
Metrology School
7 - 16 February 2011 Nairobi, Kenya



AFRIMETS has placed metrology in Africa on the international map and allowed access to especially scientific metrology activities all over the world, but most importantly it has increased awareness of metrology in Africa. Now is the time to invest in the future and to ensure a group of young, motivated metrologists that will build on the foundation created by our generation.

The 2011 AFRIMETS Metrology School creates the opportunity to equip a younger generation with the knowledge necessary to take AFRIMETS to the next level. The lecturers that have been invited are all experts in their respective fields and the school will provide the opportunity for young metrologists to interact with them in a relaxed atmosphere over a period of ten days. It is the opportunity of a lifetime and as the Chair of AFRIMETS, I call on all metrology institutes to support this important event and send promising metrologists to participate.

Don't miss out!

Dr Wynand Louw
Chairperson / AFRIMETS

Mandatory technical requirements are issued to guarantee correct measurements in areas of public interest such as trade, health, the environment and safety; its applications should be assured by a national legal metrology entity.

Come and learn how to establish and maintain a legal metrology system in your country, whilst rubbing shoulders with renowned legal metrologists. It is also an opportunity to learn more about the international world of not only legal metrology, but scientific metrology as well.

It is an opportunity that rarely presents itself on the African continent, and I hope to see you there.

Geraldo Albasini
Vice-chair responsible for Legal Metrology / AFRIMETS

The 2011 AFRIMETS Metrology School:

An opportunity to share and receive knowledge



The 2011 AFRIMETS Metrology School is the first of its kind in Africa. Many internationally renowned scientists have been invited to lecture on their particular areas of expertise. In addition to these exciting lectures, several other activities are also scheduled, including workshops, industrial visits and laboratory tours at the Kenya Bureau of Standards (KEBS). To maximize the benefit to students during the ten days in Nairobi and to help them make new friends from around Africa, we have also allowed time off for social interaction. Our objective is to provide an opportunity for these future leaders of metrology to obtain an overview of our field and to establish the essential personal links and networks that will be so useful for them and the whole community as their careers progress.

We heartily welcome you all to Nairobi for this exciting moment.

Joel Kioko
Ag Managing Director / Kenya Bureau of Standards

This Metrology School is specially designed to introduce standards, quality, accreditation and metrology infrastructure to young African metrologists and to provide technical training addressing legal and scientific/industrial metrology requirements in selected fields. It is designed for participants from African developing economies and specifically for members of AFRIMETS.

The 10 day Metrology School will focus on the balanced presentation of basic knowledge in legal and scientific/industrial metrology in theory and practice including field visits to enterprises to witness applied metrology.

The training aims to bring together young metrologists from over 40 countries across Africa to learn from best international practice and exchange experiences of their countries.

Who Should Attend?

Legal and scientific/industrial metrologists in the early stages of their career that wish to intensify and expand their knowledge and want to contribute to their national and continental metrology development.

Why Attend?

Programme Overview

The Metrology School will include key areas that have been identified to satisfy priority continental technical needs such as measurement uncertainty, mass and related quantities, electricity, thermometry and dimensional metrology.

The 2011 AFRIMETS Metrology School:

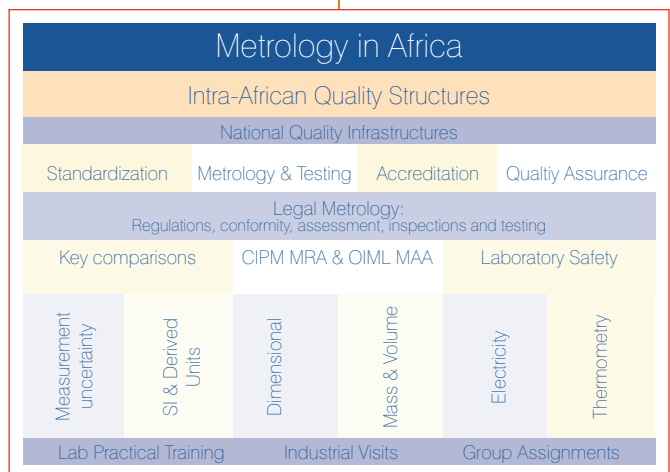
Technical courses specially designed for the needs of

Africa



Course content includes an introduction to the international scientific/industrial and legal metrology systems, the measurement area, theory, practical training and future trends. Introduction to metrology, accreditation, standardization, quality systems, international system (SI) and derived units, Key comparisons and Calibration and Measurement Capabilities, and laboratory safety.

The visits to industry and the group assignment will bring the full metrology spectrum into perspective. Delegates will also benefit from an important networking opportunity between participating countries.



Presenters

Recognized experts from renowned metrology institutes from Africa, the Americas and Europe will provide theoretical and practical knowledge.

Language

The Metrology School sessions and training will be presented in both English and French. Interpretation services (English/French) will be available.

Expected results

At the end of the course, delegates will have received significant introductions to the components of the four pillars of a National Quality Infrastructure. In addition, delegates will have received instruction on aspects of scientific/industrial and legal metrology which will enable them to be conversant with the international requirements of the BIPM and the OIML.

Delegates will be prepared to contribute to their national metrology institutions with applicable technical knowledge in SI units, measurement uncertainty, mass measurement, dimensional metrology, electrical metrology and thermometry, all highly required to improve confidence in measurement essential to ensure consumer protection and fair international trade.

10 Days at a Glance

Plenary Sessions

Monday, 7 February 2011
 Official Opening
 Impact of Metrology
 National Quality Infrastructures – The Four Pillars
 Standardization, Accreditation, Metrology and Testing

Tuesday, 8 February 2011
 Scientific Metrology and the CIPM MRA
 Legal Metrology and the OIML MAA
 Application of Quality Systems
 Accreditation (Applied)
 Key Comparison Database and Key Comparisons and
 Calibration and Measurement Capability
 Legal Metrology Overview

Wednesday, 9 February 2011
 Introduction to AFRIMETS, ARSO, s-RMOs and s-RLMOs
 Overview of UNIDO in Africa
 Overview of PTB in Africa
 Laboratory Safety
 Technical Field Visits to Industry

Technical Sessions

Thursday, 10 February 2011
 Introduction to Measurement Uncertainty
 SI and Derived Units (FR)
 Group Assignments
 Introduction to Measurement Uncertainty (FR)
 SI and Derived Units (EN)

Friday, 11 February 2011
 Mass Metrology Training (EN)
 Dimensional Metrology Training (FR)

Saturday, 12 February 2011
 Mass Metrology Training (FR)
 Dimensional Metrology Training (EN)

Sunday, 13 February 2011
 Group Assignments & Leisure

Monday, 14 February 2011
 Thermometry Training (EN)
 Electrical Metrology Training (FR)

Tuesday, 15 February 2011
 Thermometry Training (FR)
 Electrical Metrology Training (EN)

Wednesday, 16 February 2011
 Group Assignment Presentations
 Closing Ceremony

Registration (Before 15th October 2010)

There is no fee being charged for the course.

Please download application form and general conditions at:

www.afrimets.org/AFRIMETS_2011 or at www.unido.org/afrimets and submit the completed application form, a motivation letter, a CV, a letter of support from your organization and a copy of your passport **no later than by 15th October 2010**.

Selection Process

A selection committee will review the applications upon documents provided. As the school can accommodate a limited number of candidates only, attendance will be limited to candidates who are selected by the committee; the acceptance cannot be transferred to another candidate without prior approval from the committee. Acceptance/decline decision will be communicated on an individual basis by **15th November**.

Selected candidates will be provided with training material, mid-morning tea, afternoon tea and lunch for the duration of the programme. All other costs are for the participant's own account.

Travel & Accommodation

Each Delegate will be expected to make their own travel arrangements to arrive in Nairobi on Sunday, 6 February 2011 and depart after the closing ceremony and presentation of certificates on Wednesday, 16 February 2011. The Organising Committee has arranged favourable hotel accommodation rates for delegates within walking distance of the Kenya Bureau of Standards and the Department of Weights and Measures.

Sponsorship

Candidates are encouraged to look for sponsorship at their national institutions (travel, accommodation, per diem, etc). Limited sponsorship may be available for selected candidates. The extent of sponsorship and pre-conditions will be made known/available in due course.

Further Information

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Norad



AFRIMETS

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Registration