

# Metrology in Chemistry AFRIMETS GA 2009

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Your measure of excellence



### Why do we need MiC?

- The Lake Victoria Fish Industry: The cost of the losses to the Ugandan economy alone of the fish ban which lasted from March to July 1999 was estimated at about US\$ 36.9 million, excluding the cost effect on the fishermen (estimated to be US\$1 million per month).
- Harmonized European standards on aflatoxin B1 a common contaminant affecting agricultural products – could jeopardise African exporters of nuts, cereals and dried fruits reportedly worth US\$670 million a year
- In Cote D'Ivoire, fisheries employ more than 420,000 workers and in Guinee-Bissau, while the employment figure is lower at around 120,000 workers, fisheries represent 4% of the GDP and 43% of the State's overall budget.



#### **Overview**

- Members
- Structure
- Programme
  - Country Introductions
  - Workshop on PT Schemes
- Past Activities
- Action Plan





#### **Members Present**

- Present at the meeting (8)
  - South Africa (SADC), Kenya (EAMET), Uganda (EAMET), Tanzania (SADC), Zimbabwe (SADC), Cote d'Ivoire (SOAMET), Ghana (NEWMET), *Tunisia* (MAGMET)
- Apologies
  - Egypt, Rwanda



### **Programme**



- Country Overviews
  - Detailed presentations of the activities in all participating countries
  - Intense discussions on approaches and practices of the countries
  - Common areas of interest identified



### **Country Overviews**



Area	TBS	UNBS	KEBS	GHANA	ZIM	NMISA
Inorganic Chem	Heavy metals	water – heavy	Fortification in	Metallic		Speciation; heavy
		metals and cations	food and toxic	contaminants		metals in food
			heavy materials			
Organic Chem		maize and cereal (moisture, ash,				
		protein and fats);				
Organic/	Mycotoxins	Mycotoxins&	Melamine in milk	Mycotoxins		Mycotoxins in
Bioanalysis	& melamine	melamine	and mil products			maize & melamine in milk
Organic/Bio			Aflatoxins in coffee			
Organic/Bio	Pesticide residues	pesticide residues		pesticide residues in Chocolate; Cocoa; Pineapple; Pear; Fresh tomatoes	pesticide residues	Persistent organic pollutants; Dioxins
Organic/Bio	Antibiotic resides	Antibiotic	Antibiotics and steroid growth promoters in food			Chloram-phenicol in milk
		honey (HMF)				
Inorganic	Health diagnostic equip/reagents	-4 7 2	Migration of contaminants from packaging materials			
			Breath alcohol calibration	Breath alcohol calibration	Breath alcohol calibration	Breath alcohol calibration
Gas			Purity of medical gases		Required by industry	Purity analysis of gases

#### **Actions**

#### PT Schemes

Scheme	Coordinator	Status	Action
Wheat Flour	KEBS	Round 4	Sample Prep PT Sept-Dec 09
Edible Salt	TBS	Round 4	Sample Prep PT Sept-Dec 09
Edible Oil	UNBS	Round 2	Sample Prep PT Sept-Dec 09
Water Chemistry Microbiology	NAMWATER UNBS	Round 5 Round 2	
<b>Aqueous Ethanol</b>	NMISA	New	Call for Participants



### **Actions (continued)**



#### Questionnaire

- Development of a questionnaire to compile the picture of chemical activities throughout Africa
- Will be used for the MiC RoadMap (GA2010)

#### MiC Guideline

- Based on the APMP document
- Adapt with local case studies

#### MiC Structure/Officers

- Agreement of the structure at the GA
- Appointment of the officers by email after meeting



#### A Structure for AFRIMETS MiC



- CCQM-based
  - Organic
  - Inorganic
  - Gas
  - Surface Analysis
  - Bio Analysis
  - Electrochemistry
  - -KCWG

- Level-based
  - CCQM Matters
  - (PT Coordination)
  - Accreditation Support
  - Development and Awareness
  - Training



### **Actions (continued)**



- Webpage
  - All relevant documents
  - 'Country space' for announcements
  - Communication is critical!!!
- Training Programme
  - Waiting for outcome of the questionnaire
  - Train-the-trainer will be critical component





## Thank you!

Tanzania exported \$140 million worth of fish in 1998, but due to hygiene and other safety concerns a major market banned imports, resulting in 50% loss of exports and 60,000 job losses. Integrated assistance (cost approx. \$700,000) to improved processing/ handling, better quality inspection and setting up recognized laboratory services enabled restart of exports in 1999

