



# [ AFRICA FOOD SAFETY WORKSHOP ]

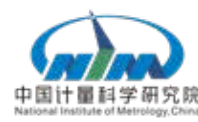
PROGRAMME

4-8 June 2018

Pretoria, South Africa



Bureau  
International des  
Poids et  
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# FOREWORD

Dear participant,

It is NMISA's and my great pleasure to receive you at the **Africa Food Safety Workshop 2018**, where we aim to contribute to improving food safety control systems in Africa through strengthening networking among food safety stakeholders and forging new partnerships and collaboration opportunities.

This workshop brings together experts within the analytical regulatory food testing laboratories and metrology institutes, researchers in academia, governmental and non-governmental food control programmes.

The workshop commences with the official opening and welcome on Monday, followed immediately with the **"Measurement science for mycotoxins in support of food safety"** session. The second part of the workshop, starting on Wednesday, is dedicated to **"Advancing integrated food safety systems in Africa"**.

Your participation will provide your organisation with an opportunity to engage with influential scientists and measurement scientists (metrologists) across the globe and key role players from Africa and the international community. I therefore believe that this workshop will be another successful convocation of leading authorities in their various chemical metrology disciplines.

NMISA, as your host, will do our very best to make sure that your time spent at this Workshop is pleasant and fruitful, both socially and scientifically. If you have any questions, suggestions, or complaints, please make them known at the Reception Desk.

Regards,

*Ndwakhulu Mukhufhi*

**Ndwakhulu Mukhufhi**

CEO: National Metrology Institute of South Africa

## Our Organising partners



## Our sponsors



**PACIFIC RIM**  
LABORATORIES INC



Time	Topic	Speaker
<b>DAY 1: MONDAY, 4 JUNE 2018</b>		
<b>08h00</b>	<b>Arrival and Registration</b>	
<b>SESSION 1: MYCOTOXINS (FOOD SAFETY)</b>		
Chairperson: Ms Zakithi Msimang (NMISA, South Africa)		
<b>09h30</b>	Welcoming and Opening Session	<ul style="list-style-type: none"> <li>CEO, NMISA, South Africa (Mr Ndwakhulu Mukhufhi)</li> <li>Representative of the African Union Commission, AU (Dr Amare Ayalew)</li> </ul>
<b>10h15</b>	Challenges and trends in multimycotoxins analysis	Prof Rudolf Krska (University of Natural Resources and Life Sciences, IFA-Tulln, Vienna (BOKU), Austria, School of Biological Sciences, Queens University, UK)
<b>11h00</b>	<b>Coffee/Tea/Refreshments, Exhibition and Poster Viewing</b>	
<b>11h20</b>	Integrity and safety of the food supply in Africa - To include an introduction to: Mycotoxins, food safety and trade and Awareness	Ms Renata Clark (Food Safety and Quality Unit, United Nations Food and Agriculture Organization - FAO, Rome)
<b>11h40</b>	An introduction to metrology and the African Food and Feed Reference Material Programme	Dr Maria Fernandes-Whaley (NMISA, South Africa)
<b>12h00</b>	Mycotoxin Primary Reference Materials and Calibrators - Metrology for Safe Food and Feed in Developing Economies Capacity Building and Knowledge Transfer (CBKT) Project	Dr Ralf Josephs (International Bureau of Weights and Measure - BIPM, France)
<b>12h20</b>	Metrology and Analytical Testing in China - CRMs for Mycotoxins in food	Prof Hong Mei Li (National Institute of Metrology, China)
<b>12h40</b>	Methods of analysis for food CRM development - ochratoxin-A in coffee	Dr Eliane Rego (INMETRO, Brazil)
<b>13h00</b>	<b>Lunch, Exhibition and Poster Viewing</b>	
<b>SESSION 2: MYCOTOXIN ANALYTICAL METHODS (OFFICIAL, SCREENING AND RAPID TESTS)</b>		
Chairperson: Dr Jayne de Vos (NMISA, South Africa)		
<b>14h00</b>	Rapid and inexpensive mycotoxin detection: A need of African countries	Dr Gordon Shephard (Cape Peninsula University of Technology, South Africa)
<b>14h40</b>	Mycotoxins in food and their analysis in a developing and changing world	Prof Sarah De Saeger (University of Ghent, Belgium)
<b>15h20</b>	Mycotoxin analysis, routine analysis for regulatory purposes	Mr Hein Engelbrecht (Perishable Products Export Control Board, PPECB, South Africa)
<b>15h40</b>	<b>Coffee/Tea/Refreshments, Exhibition and Poster Viewing</b>	
<b>SESSION 3: METHOD VALIDATION AND PROFICIENCY TESTING (PT)</b>		
<b>16h00</b>	Current analytical methods for mycotoxins and their validation	Dr Michelangelo Pascale (IPSA, CNR, Italy)
<b>16h20</b>	Recent developments in the guidance available for the use of reference materials	Dr Angelique Botha (NMISA, South Africa)
<b>16h40</b>	Proficiency Testing for Analytical Chemistry Laboratories organized in the East African Community and COMESA Countries	Mr Isaac Mugenya (Kenya Bureau of Standards - KEBS, Kenya)
<b>17h00</b>	AACC International Proficiency testing experience for Mycotoxins in Cereals	Dr Anne Bridges (American Association of Cereal Chemists - AACC International)
<b>17h20</b>	Mycotoxin monitoring - SA maize and wheat crop surveys	Ms Hannalien Meyer (The Southern African Grain Laboratory, South Africa)
<b>17h40</b>	<b>Posters and Exhibition Viewing</b>	
<b>18h00</b>	<b>Welcome Reception (sponsored by Microsep South Africa)</b>	
<b>18h30</b>	<b>Close of Day 1</b>	
<b>DAY 2: TUESDAY, 5 JUNE 2018</b>		

Time	Topic	Speaker
<b>SESSION 4: MYCOTOXIN RAPID TESTING, MASKED/CONJUGATED AND RELATED MYCOTOXINS AND UNTARGETED ANALYSIS</b>		
Chairperson: Prof Sarah De Saeger		
08h00	Analysis of emerging and modified mycotoxins	Prof M Rychlik (Technical University of Munich, Germany)
08h40	USDA FGIS Mycotoxin Testing and Supporting Quality Assurance Programs	Mr Thomas Weber (United States Department of Agriculture Federal Grain Inspection Service, USA)
09h00	Co-occurrence of regulated, masked and emerging mycotoxins in grain and feed	Dr Gerd Schatzmayr (BIOMIN Research Center, Austria)
09h20	Integrated approach to mycotoxin control and PACA's experience	Dr Amare Ayalew (African Union Commission, Ethiopia)
09h40	New approaches and tools to support harmonisation, standardisation and inter-operability in food safety - METROFOOD-RI	Dr Claudia Zoani (ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economics, Italy)
10h00	<b>Coffee/Tea/Refreshments, Exhibition and Poster Viewing</b>	
<b>SESSION 5: MYCOTOXIN CONTROL AND REMEDIATION</b>		
Chairperson: Dr Ranajit Bandyopadhyay (CGIAR, IITA)		
10h20	Determination of aflatoxin M1 in liquid milk, milk powder, yoghurt and cheese by HPLC	Mr Rajabu Mziray (Tanzania Food and Drugs Authority - TFDA, Tanzania)
10h40	Aflatoxin Contamination of the Milk Supply Chain and its health implications: A Pakistan Perspective	Dr Azmat Ullah Khan (University of Veterinary and Animal Sciences, Pakistan)
11h00	Food processing impact and related industrial practical guidelines to reduce mycotoxin contamination	Dr Michele Suman (Vice-Chair ILSI Europe-Process Related Compounds and Natural Toxins Task Force, Belgium; Barilla Advanced Laboratory Research, Italy)
11h20	Mycotoxigenology research at the University of Johannesburg	Dr Patrick Njobeh (University of Johannesburg, South Africa)
11h40	Investigating the presence of aflatoxin biomarkers in hair	Dr David Karetere (Tshwane University of Technology, South Africa)
12h00	<b>Lunch, Exhibition and Poster Viewing</b>	
12h00	<b>Sponsored Lunch Session by Charm Sciences @ The Common Room (by invitation)</b>	
<b>SESSION 6: CAPACITY BUILDING FOR MYCOTOXIN ANALYSIS; MYCOTOXINS AND TRADE AWARENESS</b>		
Chairperson: Renata Clarke, assisted by Dr Michele Suman		
13h20	Public Health and Trade Benefits of Mycotoxin Control in Africa	Dr Ranajit Bandyopadhyay (International Institute of Tropical Agriculture - IITA, Nigeria)
13h40	Sustainable laboratory capacity building for mycotoxins analysis and control	Dr Janie Dubois (Joint Institute for Food Safety and Applied Nutrition - JIFSAN, The University of Maryland, USA)
14h00	Level of Mycotoxins consumption and burden of Aflatoxin-Induced Hepatocellular Carcinoma in people subsisting on sorghum based products in Nigeria	Prof Hussaini A Makun (Federal University of Technology, MINNA, Nigeria)
14h20	Analytical studies on low level determination of Aflatoxin in nuts, cereals and herbs	Dr Ahmed Gomaa (Central Lab of Residue Analysis of Pesticides and Heavy Metals in Foods, Egypt)
14h40	Mycotoxins in Zambia, analysis, control and awareness	Dr Henry Njapau (National Institute for Scientific and Industrial Research, Zambia)
15h00	Mycotoxin analysis in Tunisia	Ms Zohra Berriche (Centre National des Sciences et Technologies Nucléaires - CNSTN, Tunisia)
15h20	<b>Coffee/Tea/Refreshments, Exhibition and Poster Viewing</b>	
15h40	Profile of aflatoxin contamination according to agro-ecological zones in Senegal	Mr Babacar Beye (Institut de Technologie alimentaire - ITA, Senegal)
16h00	Antifungal activity of plant extracts against the growth of Aspergillus strains isolated in Burkina Faso	Dr Bernadette P. Ouattara-Sourabie (Laboratoire National de Santé Publique, Burkina Faso)
16h20	Mycotoxin, capacity building challenges/opportunities visa vis International standards and trade	Prof Ardjouma A Dembele (LANADA, Ministère de l'Agriculture, Cote D'Ivoire)

Time	Topic	Speaker
16h40	<b>Wrap up of mycotoxin session (s)</b> <b>Chair: Dr Jayne de Vos / Dr Maria Fernandes-Whaley / Dr James Sasanya</b> <b>Guiding theme: "Measurement Science for Mycotoxins in support of Food Safety"</b>	
17h00	<b>Posters and Exhibition Viewing</b>	
17h20	<b>Close of Day 2</b>	
<b>DAY 3: WEDNESDAY, 6 JUNE 2018</b>		
<b>SESSION 7: VETERINARY DRUG AND PESTICIDE RESIDUES - FOOD SAFETY</b> Chairperson: Dr Leen van Ginkle (Veterinary drug residues)		
08h00	Food safety management systems, Veterinary drugs and pesticide residues analysis in animal products: Finding Analytical Efficiencies	Mr Bryn Shurmer (Canadian Food Inspection Agency, Canada)
08h20	Experience of Morocco in the field of Veterinary Drug Residues	Dr Sami Darkaoui (Moroccan Food Safety Office, ONSSA, Morocco)
08h40	Residue surveillance and Botswana's experience	Mr Amos Ramocha (Botswana National Veterinary Laboratory - BNVL, Botswana)
09h00	Rapid screening of antimicrobial residues in food of animal origin and capacity building in Africa	Dr Wim Reybroeck (Flanders research institute for agriculture, fisheries and food - ILVO, Belgium)
09h20	Assessment of some animal farming practices and Analysis of veterinary drug residues using CHARM II Test	Ms Julie Tsafack (Institute of Medical Research and Medicinal Plant Studies - MINTEST, Cameroon)
09h40	Veterinary drug residues and Uganda's experience	Mr Aziz Mukota (Uganda Bureau of Standards - UNBS, Uganda)
10h00	Veterinary Drug Residues in commonly consumed meat in Harare: A baseline survey	Mr Tungamirayi Charles Mhande (Central Veterinary Laboratory - CVL, Zimbabwe)
10h20	<b>Coffee/Tea/Refreshments, Exhibition and Poster Viewing</b>	
10h40	Common pharmacologically active veterinary substances and related contaminants in seafood and other aquaculture products in Nigeria	Ms Ololade Aderibigbe (National Agency for Food and Drug Administration and Control - NAFDAC, Nigeria)
11h00	Development of Multi-Residue Methods of Veterinary Drugs by LC-MS/MS to Strengthen the Analytical Capability in Aquaculture Products in South China	Dr Guihua Liu (Shenzhen Centre for Disease Control, China)
11h20	Analytical methods and residue testing: research and capacity building	Dr Ovokeroye A. Abafe (Onderstepoort Veterinary Research, Agricultural Research Council, South Africa)
11h40	Food Safety and Veterinary Drug Residue Monitoring in Singapore	Dr Shen Ping (Agri-Food and Veterinary Authority of Singapore - AVA, Singapore)
12h00	Acceptance criteria for confirmation of identity for chemical residues using exact mass data	Ms Hiranthi Jayasuriya (U.S. FDA/Center of Veterinary Medicine - CVM, USA)
12h20	Monitoring of antimicrobials in the shrimp farm at Rio Grande do Norte, Brazil	Prof Valdemar Luiz Tornisielo (CENA/University of Sao Paulo, Brazil)
12h40	Development of LC-ID-MS/MS for the Accurate Determination of Veterinary Residues in Food	Dr Xiu Qin Li (National Institute of Metrology, China)
13h00	<b>Lunch, Exhibition and Poster Viewing</b>	
<b>SESSION 8: VETERINARY DRUG RESIDUES</b> Chairperson: Mr Bryn Shurmer (Canadian Food Inspection Agency)		
14h00	Antimicrobial Residues in Eggs and Milk using CHARM II in Accra Ghana	Mr Lawrence Cheetham Mingle (Food Physicochemical Laboratories, Food and Drugs Authority - GFDB, Ghana)
14h20	Screening for residues of antibiotics in milk produced in Dakar and Thiès regions (Senegal) by Charm test II System	Mr El Haj Niang (Senegalese Veterinary Drug Control Laboratory, Senegal)
14h40	Contemporary and emerging issues and veterinary drug residues analysis and control	Dr Leen van Ginkle (RIKILT, Wageningen University and Research, The Netherlands)
15h00	Role of private laboratories in residue testing, food safety and trade	Ms Azel Swemmer (Food and Drug Assurance Laboratories, South Africa)
15h20	Veterinary drug residues and standards - addressing regional interests for Africa (Codex perspective)	Dr Mabel Aworh – Ajumobi (Federal Minister of Agriculture and Rural Development, Nigeria)

Time	Topic	Speaker
<b>15h40</b>	<b>Coffee/Tea/Refreshments, Exhibition and Poster Viewing</b>	
<b>16h00</b>	Targeted vs non targeted analytical approaches for veterinary drug residue monitoring in food	Prof Dr Bruno Le Bizec (Oniris, French Reference Laboratory - LABERCA, France)
<b>16h40</b>	Greener Sample Preparation for Mixed Contaminants/residues in Foods of Animal Origin - Southern Africa's Experience	Prof Mathew M Nindi (University of South Africa)
<b>17h00</b>	<b>Posters and Exhibitions</b>	
<b>18h00</b>	<b>Close of Day 3</b>	
<b>19h00</b>	<b>Official Workshop Dinner @ Altitude Restaurant, Time Square Casino</b>	
<b>DAY 4: THURSDAY, 7 JUNE 2018</b>		
<b>SESSION 9: VETERINARY DRUG AND PESTICIDE RESIDUES - FOOD SAFETY</b>		
Chairperson: Dr Wim Reybroeck (ILVO, Belgium)		
<b>08h00</b>	Addressing skills gaps relating to ISO 17025 accreditation requirements	Mr Bryn Shurmer (Canadian Food Inspection Agency, Canada)
<b>08h20</b>	ISO/IEC17025: 2017: The Main Changes; The Requirements	Mr Steve Sidney (National Laboratory Association, South Africa)
<b>08h40</b>	The Role of accreditation in supporting Food Safety and facilitation of Trade	Ms Pinkie Malebe (Southern African Development Community Accreditation Service - SADCAS, Botswana)
<b>09h00</b>	Experiences and Lessons from the Standards and Trade Development Facility (STDF)	Ms Kelly McCormick (Center for Food Safety and Applied Nutrition (CFSAN), U.S. Food and Drug Administration (FDA), USA)
<b>09h20</b>	Transforming food safety control systems - Training, technical assistance and Guidance documents	Ms Kelly McCormick (Center for Food Safety and Applied Nutrition (CFSAN), U.S. Food and Drug Administration (FDA), USA)
<b>09h40</b>	Food Safety Networking and capacity building in Africa	Dr James Sasanya (IAEA) and Mr Ephraim Moruke (Department of Agriculture, Forestry and Fisheries, South Africa)
<b>10h00</b>	<b>Wrap up and discussions: Veterinary drug residues - Facilitated by Dr James Sasanya (IAEA)</b>	
<b>11h00</b>	<b>Coffee/Tea/Refreshments, Exhibition and Poster Viewing</b>	
<b>SESSION 10: PESTICIDE RESIDUES (AND ASSOCIATED CONTAMINANTS)</b>		
Chairperson: Prof Mathew Nindi (UNISA, South Africa)		
<b>11h30</b>	Pesticide residues, food safety and trade: Partnership for effective control and standards setting	Dr Jason Sandahl (United States Department of Agriculture - USDA)
<b>12h20</b>	Pesticides and their residues - Senegal's experience	Mr Papa Sam Gueye (Ceres Locustox Foundation, Senegal)
<b>12h40</b>	AOAC Sub-Saharan Africa Section improving Analytical Testing Standards & Performance in Africa	Dr Owen Fraser (AOAC Sub-Saharan Africa Section, Switzerland)
<b>13h00</b>	<b>Lunch, Exhibition and Poster Viewing</b>	
<b>14h00</b>	Pesticides and growth regulators - Benin's experience	Mr Mathias Ableto (Central Laboratory for Food Safety Control-LCSSA, Benin)
<b>14h20</b>	Pesticides residues and networking - India's experience	Dr Krishan Kumar Sharma (ICAR-Indian Agricultural Research Institute, Pusa, India)
<b>14h40</b>	Pesticides and their residues in Nigeria - An Overview	Dr Fosalade B Oluwabamiwo (National Agency for Food and Drugs Administration and Control-NAFDAC, Nigeria)
<b>15h00</b>	Pesticides and standards - Sudan's experience	Ms Nour Grashi Mukhtar (SSMO, Sudan)
<b>15h20</b>	<b>Coffee/Tea/Refreshments and Poster Viewing</b>	
<b>16h00</b>	Evaluation of Polycyclic Aromatic Hydrocarbons (PAH4) in the Lebanese Grilled Meat through Innovative Analytical Strategy	Mr Mohamad El Hussein (Analysis of Organic Compounds Laboratory (LACO), Lebanese University, Lebanon)
<b>16h20</b>	How does analytical quality affect exports? South African tailored proficiency testing scheme for pesticides in fruit	Dr Laura Quinn (NMISA, South Africa)
<b>16h40</b>	<b>Wrap up and discussions: Pesticides, quality control. Analysis, standards setting and trade - facilitated by Dr Jason Sandahl and Mr Papa Sam Gueye</b>	

Time	Topic	Speaker
17h20	<b>Posters and Exhibition Session</b>	
18h00	<b>Close of Day 4</b>	
DAY 5: FRIDAY, 8 JUNE 2018		
SESSION 11: FOOD TRACEABILITY AND AUTHENTICITY; FOOD MICROBIOLOGY, ANTIMICROBIAL USE AND RESISTANCE Chairperson: Prof Paul Brereton (Queen's University, Belfast, UK)		
08h00	Food Fraud and Adulteration: the Industrial Perspective on effective available solutions	Dr Michele Suman (Food Safety and Authenticity Research Manager - Barilla Advanced Laboratory Research, Italy)
08h20	Authenticity and safety of spirit drinks	Dr Ian Goodall (Technical Manager, Scotch Whisky Research Institute, UK)
08h40	Food Fraud Early Warning Systems	Dr Vahid Mojtabeh (Fera Science Ltd, UK)
09h00	Stable isotope methods in food authenticity and traceability	Dr Simon Kelly (Food and Environmental Protection Laboratory - Joint FAO/IAEA Division of Nuclear Applications in Food and Agriculture, Austria)
09h20	Situation analysis of food fraud, food crime and economically-motivated adulteration of food in Uganda	Mr Kefa Kateu (Government Analytical Lab/Makerere University, Uganda)
09h40	NIST SRMs in support of food safety	Dr Mellisa Phillips (National Institute of Standards and Technology - NIST, USA)
10h00	<b>Coffee/Tea/Refreshments, Exhibition and Poster Viewing</b>	
10h20	Authenticity and safety in the fruit juice industry through industrial self-control	Ms Aintzane Esturo (SGF International, Germany)
10h40	FSI - bringing manufacturers, retailers and regulators together for safer food	Dr Matlou Setati (SA Consumer Goods Council - Food Safety Initiative, South Africa)
11h00	Multi-spectrum method for the determination of food authenticity	Dr Qinghe Zhang (National Institute of Metrology, China)
11h20	<b>Wrap up and discussions: Food Integrity (starting with an overview of a food authenticity/integrity project) - facilitated by Prof Paul Brereton</b>	
12h00	<b>Lunch, Exhibition and Poster Viewing</b>	
SESSION 12: FOOD MICROBIOLOGY Chairperson: James Sasanya (IAEA)/Ms Paloma Ellitson (NSI, Namibia)		
13h20	Listeriosis outbreak in South Africa	Dr Lucia Anelich (Anelich Consulting, President SAAFoST, South Africa)
13h40	NLA PT scheme for microbiology - challenges and the way ahead	Mr Steve Sydney, (National Laboratory Association South Africa)
14h00	Food microbiology-Namibia's experience	Ms Paloma Ellitson (NSI, Namibia)
14h20	Safety of Street Foods in Africa: A case study in Ghana	Dr Courage KS Saba (University of Development Studies, Ghana)
14h40	Address skill/resources gaps relating to ISO Standard 17025 and 22000 for food microbiology	Ms Delille Wessels (Onderstepoort Veterinary Research - Agricultural Research Council, South Africa)
15h00	<b>Coffee/Tea/Refreshments and Poster Viewing</b>	
15h20	Integrated chain management for food safety in the SA dairy value chain	Mr Jompie Burger (Dairy Standards Agency, South Africa)
15h40	Innovative solutions to addressing the challenges of instrument procurement and customer/technical service delivery	Dr Bacari Diatta (Laboratoire National d'Analyses et de Contrôle - LANAC, Ministry of Commerce, Senegal)
16h00	<b>Wrap-up discussions: antimicrobial resistance and microbiology - facilitated by Dr James Sasanya and Ms Paloma Ellitson</b>	
16h20	<b>Concluding remarks</b>	<b>Chair/Organising team</b>
16h40	<b>Closing</b>	<b>Dr Jayne de Vos, Director of Chemistry and Materials Metrology (NMISA, South Africa)</b>
17h00	<b>Close of Conference</b>	



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