

# World Metrology Day 2023 Conference

Measurements Supporting the Global Food System

New Measurement Solutions and Technologies from NMC

25 May 2023 | 8.30am-5.00pm | Innovis, 2 Fusionopolis Way  
Multi-Purpose Hall



In light of the climate changes and the world population reaching 8 billion in 2022, how can measurements play a part in our global food system to ensure a safe and sustainable food supply? Join us for a series of exciting and informative talks by leading experts.



## A CRITICAL CONSIDERATION IN REAL WORLD FOOD SAFETY REGULATORY TESTING

Dr Wu Yuan Sheng is the Director of Food Science Rapid Response Department at the National Centre for Food Science in Singapore. He develops and provides testing and diagnostic capabilities for biological, chemical and radiological hazards, and has been involved in standard-setting for over 14 years. He has a PhD in analytical chemistry and worked at Agilent Technologies and Waters Asia prior to joining the public sector.



## METROLOGY AND DIGITALISATION IN FOOD TECHNOLOGY

Dr Cui Shan is the Deputy Head of Acoustics, Chemical and Temperature Metrology Cluster at the National Metrology Centre (NMC), Agency for Science, Technology and Research (A\*STAR). She is also a Steering Group Member of the Asia Pacific Metrology Programme's (APMP) Focus Group on Digital Transformation in Metrology.



## CHEMICAL METROLOGY AND ITS ROLES ON FOOD SAFETY, SECURITY AND SUSTAINABILITY IN SINGAPORE

Ms Cheow Pui Sze is a Consultant Analytical Scientist heading the Organic Chemistry Section and Statistics Unit in Health Sciences Authority's Chemical Metrology Lab. She specializes in purity assessment, food contaminant measurement, and fuel oil contaminant detection. Pui Sze has participated in 15 international comparisons, produces certified reference materials, and is a Technical Assessor/Expert for the Singapore Accreditation Council. She is a member of several working groups, including ISO/CASCO WG 57 and ISO/TC 334 WG 16.



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## ADVANCING FOOD SAFETY THROUGH INTERNATIONAL COMPARISONS AND METROLOGICAL TRACEABILITY: A FOCUS ON THE CCQM-OAWG FOOD SECTOR ACTIVITIES

Dr Maria Fernandes-Whaley is a Senior Manager in the NMISA Chemistry, Materials and Medical Metrology Division. She represents South Africa on the International Consultative Committee for Quantity of Material - Organic Analysis Working Group and is a member of the ISO Technical Committee for Reference Materials. She focuses on food safety and quality initiatives, organic substance identity, purity verification, and environmental pollution monitoring. She manages the Reference Material Production Facility and serves as a guest lecturer at the University of Pretoria. Dr. Fernandes-Whaley obtained her PhD in Analytical Chemistry from the University of Pretoria in 2008 and represents South Africa on several committees, including IMEKO Technical Committee 23 and FAO-IAEA Africa Food Safety Network.



## WE ARE WHAT WE EAT: FOOD CHEMICAL COMPOSITION, FOOD SAFETY AND CONSUMER CONCERNS

Dr Benjamin Smith is a risk assessor and toxicologist with experience in industry, academia, and government. He advocates for collaborative research and embedding safety throughout the food chain. His current research interests extend across a range of different areas broadly linked to the development of risk-benefit frameworks for novel foods and the integration of human-relevant and socially responsible safety methodologies into the regulatory assessment processes for new ingredients. Dr Smith is affiliated with the Agency for Science, Technology and Research (A\*STAR), Singapore's lead agency for scientific innovation and holds adjunct faculty positions within the School of Chemistry, Chemical Engineering and Biotechnology at NTU and the Tropical Research Institute of James Cook University Singapore.



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25 May 2023

# World Metrology Day 2023

Measurements Supporting the Global Food System (AM)

New Measurement Solutions and Technologies from NMC (PM)



## PROGRAMME

8:30 AM	<b>Registration</b>
9:00 AM	<b>Welcome Address</b> <i>Dr Gregory Goh, Executive Director, National Metrology Centre, A*STAR, Singapore</i>
9:10 AM	<b>Keynote Speech</b> A Critical Consideration in Real World Food Safety Regulatory Testing <i>Dr Wu Yuansheng, Director, Singapore Food Agency, Singapore</i>
9:40 AM	Advancing Food Safety through International Comparisons and Metrological Traceability: A Focus on the CCQM-OAWG Food Sector Activities <b>[Video]</b> <i>Dr Maria Fernandes-Whaley, Senior Manager, National Metrology Institute South Africa, South Africa</i>
10:00 AM	We are What We Eat: Food Chemical Composition, Food Safety and Consumer Concerns <i>Dr Benjamin Smith, Director, Future Ready Food Safety Hub (FRESH)</i>
10:20 AM	<b>Morning Break, Poster Session &amp; Exhibition</b>
11:20 AM	Metrology and Digitalization in Food Technology <i>Dr Cui Shan, Senior Scientist, National Metrology Centre, A*STAR, Singapore</i>
11:40 AM	Chemical Metrology and Its Roles on Food Safety, Security and Sustainability in Singapore <i>Ms Cheow Pui Sze, Consultant Analytical Scientist, Health Sciences Authority, Singapore</i>
12:00 PM	<b>Lunch, Networking, Poster Session &amp; Exhibition</b>
14:00 PM	Pressure Products for Use in Applications from National Metrology Institutes to General Industry <i>Karl Kurtz, Fluke Corporation</i>
14:20 PM	Calibration in the Digital Age <i>Josiah Meng, Additel Corporation</i>
14:40 PM	<b>NMC Talks Session 1 – Measurement Solutions and Services in NMC</b> Measurement Solutions and Technologies - Self Diagnostic Self Healing Sensors; Smartphone based Dimensional Metrology Upcoming Calibration and Measurement Services in NMC
15:20 PM	<b>NMC Talks Session 2 – Courses and developments in NMC</b> A Guide to Proficiency Testing 2023 Schedule of Measurement Skills Training Courses & Masterclasses Digital Calibration Certificate: A look at NMC's development
16:00 PM	<b>Tea Break, Demonstration, Poster Session &amp; Exhibition</b>
17:00 PM	<b>End of Conference</b>



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