

Draft Programme 20th August - Final

Test and Measurement 2026 Conference and Workshop

7 September 2026		
Time	Presentation	
09:00	WELCOME	
09:15	<i>From Florida to Kalahari - How will your product perform?</i> Surene Botha Product Testing Services a division of WTB M100	
10:00	<i>The Science beneath the Surface: Putting South African Roads in Context</i> Melanie Kemp Hofmeyr SABITA M101	
10:45	TEA BREAK	
	Calibration	Civils
11:15	<i>Adding Go/No Go Decisions to Energy Meter Calibration Reports</i> Cornie Malan City of Cape Town M102	<i>Decision Rules in Civil Engineering Testing: Managing Risk in the GO/NO GO Zone</i> Janco Potgieter Qualisol M202
11:45	<i>EV station with PV supported Feeds - Calibration, verification and performance testing</i> Jenine Jansen van Vuuren COMTEST M103	<i>The usual suspects - Common mistakes in Civil Engineering Laboratories, their effects on results, and how to (hopefully) correct these</i> Jacobus Henning Honeybadger CHO (Pty) Ltd M203
12:15	<i>A Practical Method for Calibration of Current Transformers Without a CT Bridge</i> Hein Erwin KoCoS Measurement and Control (Pty) Ltd M104	<i>ACV/10 CT - Non-linear and the uncertainty unpredictability of Results</i> Natasya van Rooi Power Construction (PTY) LTD M204
12:45	<i>Neither here nor there – The fuss about the decision rule</i> Neville Tayler Private M105	<i>Plastic Pitfalls: Why Mould Compliance Matters in Concrete Testing</i> Barry Pearce Learning Matters etc. M205
13:15	LUNCH	
	Testing: Other	Stream 2: Civils
14:30	<i>Non-destructive analysis of materials in bulk for industry using modern neutron-based methods</i> Andy Buffler UCT/n-lab innovation (Pty) Ltd M106	<i>Accreditation of Civil Engineering Temporary Laboratories under ISO/IEC 17025:2017</i> Thabo Chesalokile SANAS M206

15:00	<i>Online Cynoprobe method modifications enable ppb-level cyanide measurement</i> Vikash Arjun MINTEK M107	SANRAL Site Quality Seminars 2025/2026 Gretchen Weber-Cherry SANRAL M207
15:30	TEA BREAK	
16:00	<i>Eliminating Measurement Variability in Lipid Research: The Case for Standardized Ready-To-Use Fatty Acid Reagents</i> Michael Venter Nova Evolve (Pty) Ltd M108	<i>Tribologically Induced Metrological Error in Concrete Compression Testing Machines: A Critical Flaw in ISO 7500-1 Calibration Protocols</i> Carlton Weber Private M208

8 September 2026			
Time	Presentation		
09:00	<i>Is Your Laboratory Suffering from Titanic Syndrome? Using a Reinvention Framework to Evaluate Laboratory Adaptability</i> Fanie Kamfer Robertson Winery T100		
09:45	<i>Lessons from yesterday, shaping a better tomorrow</i> Oelof Kruger NMISA T101		
10:30	TEA BREAK		
	Calibration	Testing: Water	Civils
11:00	<i>Flow Uniformity in Open-Jet Wind Tunnels: Go/No-Go Calibration Zones for Confidence in Wind Speed Calibration Results</i> Sarah Dikgale CSIR T102	<i>Our Future Cannot Run Dry</i> Dharmarai Naicker SGS T202	<i>Concrete compressive strength testing - are the cube presses up to the task?</i> Eddie Tarnow Private T302
11:30	<i>Traceability, Calibration Drift and Decision Risk in Wind Tunnel Force Measurements</i> Kgaugelo Mabeko CSIR T103	<i>Long-Term Variability and Measurement Reliability of Aquatic Toxicity Bioassays in Wastewater Effluents: A 10-Year Case Study from Darvill and Howick Wastewater Treatment Works</i> Londiwe Nelisi uMngeni-uThukela Water T203	Why is the sampling process of critical importance Gary Hirst Power Construction T303
12:00	<i>Beyond Pass/Fail: Quantifying Confidence at the Tolerance Boundary with Connected Digital Metrology</i> Dylan Naidu TANDM Technologies (Pty) Ltd T104	<i>Adoption of the DaphToxkit F magna kit for routine toxicity testing of water samples</i> Rahzia Hendricks Rand Water T204	<i>Variability Matters: What NLA Proficiency Testing Reveals About Our Design Assumptions</i> Henk Grobler GCL Engineering T304
12:30	<i>Challenges faced measuring on modern PV solar installations</i> Kristo Engelbrecht Fluke T105	<i>Growth curve evaluation of chlorella vulgaris for wastewater phycoremediation and aquatic toxicity testing</i> Lutendo Vele Rand Water T205	<i>Measuring the Measurer: Systemic Inconsistencies, Human Factors, and Digital Barriers in Conformity Assessment Practice Under ISO/IEC 17025:2017</i> Jean-Claude Teixeira Roadlab

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13:00	LUNCH		
	Calibration	Testing: Water	Testing: Other
14:00	<i>Data Collection and Point Distribution Correlation</i> Christiaan du Preez RGC ENGINEERING T106	<i>Characterization of contaminants of emerging concern in the operational area of uMngeni-uThukela Water</i> Nomfundo Mhlambi uMngeni-uThukela Water T206	<i>Measurement in Wine Laboratories: Analytical Techniques for Quality Control and Production Monitoring</i> Kyle Willard KWV/SA Wine Laboratories Association (SAWLA) T306
14:30	<i>Method validation of High-Throughput Rogowski Coil Calibration Using Energy-Based Comparative Measurement Techniques</i> Hein Erwin KoCoS Measurement and Control (Pty) Ltd T107	<i>Nutrient Profiling and Diatom Community Analysis as Indicators of Water Quality in the uMngeni River</i> Queen Sikude uMngeni-uThukela Water T207	<i>From calibration to confidence: working range and stability assessment in uranium-in-urine method validation</i> Kedibone Mashale MINTEK T307
15:00	<i>Temperature Calibration Uncertainty Budget Creation and Management</i> Jon Sanders Additel Corporation T108	<i>Trihalomethanes in Power Station Potable Water Networks – A Case Study</i> Happiness Kolo ESKOM	<i>Monitoring of impurities in the process conversion of PbO into battery-grade PbSO₄ using analytical techniques</i> Dimakatso Mokgosi MINTEK T308
15:30	TEA BREAK		
15:30	<i>Critical Minerals, Critical Measurements: From Laboratory Comparability to SI-Traceable Reference Values</i> Maré Linsky NMISA T109	<i>Investigating the impact of seasonal variation and FOG input on microbial diversity and ammonia degradation pathways in activated sludge system</i> Zamaswazi Tshabalala uMngeni-uThukela Water T209	<i>Method-dependent bias in rare earth element quantification of Phosphogypsum: Effects of fusion and acid digestion on ICP-MS and ICP- OES analysis</i> Xikhongelo Valentia Rikhotso MINTEK T309
16:00	<i>Sensory metrology: A comparison of different methods</i> Jeanne Brand University of Stellenbosch/SA Society of Ecology & Viticulture (SASEV) T110		

16:30

Poster and networking session

9 September 2026		
Time	Plenaries	
09:00	<i>The NLA-SA in turbulent times!</i> Steve Sidney NLA-SA W100	
09:45	<i>Calibration requirements of Testing Laboratories - are they adequately understood?</i> Eddie Tarnow Private W101	
10:30	TEA BREAK	
	Calibration	Quality
11:00	<i>Enhancing Accuracy in Single-Channel Pipetting: Calibration and Operator Competency Assessment Using Dual-Dye Ratiometric Photometry</i> Chanel Pretorius Whitehead Scientific W102	<i>Zero, Relocated and Re-Zeroed Again, Everything in Spec! - Except Our Nerves</i> Carin Steyl Technology Solutions W202
11:30	Comparing two solid density measuring systems at NMISA Mildane Maboya NMISA W103	<i>ISO/IEC 17025 meets ISO/IEC 17043: When two standards collide!</i> Guy Snelling Intercal W203
12:00	LUNCH	
	Testing: Other	Quality
13:00	<i>Selection Criteria and Parameters for Measurement and Analysis of Rare Earth Elements in various materials</i> Tshilidzi Rampfumedzi MINTEK W104	<i>The Science of not so "Stupid" anymore</i> Dia van Staden FoodFacts W204
13:30	<i>Determination of Crystalline silica on dust samples using FTIR</i> Thabisa Khuselwa Limba MINTEK W105	<i>Intermediate Checks: When is enough, enough?</i> Pieter Botha Technology Solutions W205

14:00	<i>Beyond Method Validation: Using Measurement System Analysis to Strengthen Laboratory Decision Confidence in Low-Grade PGM Tailings</i> Odwa Mapazi MINTEK W106	<i>Future Fuels Laboratory (FFL): A Framework for Preparing African Laboratories for Hydrogen, Synthetic Fuels and Emerging Energy Carriers</i> Sanele Thwala Eswatini Energy Regulatory Authority W206
14:30	<i>Technical Signatory Requirements – ISO/IEC 17025:2017</i> <i>A panel discussion</i> SANAS – NLA W107	
15:30	CLOSING SESSION W108	