

Test and Measurement Conference 2017

Centurion, South Africa
30 July – 1 August 2017

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Test and Measurement 2017

Conference and Workshop

FINAL PROGRAMME

Measurements for growth in Africa

Saint George Hotel and Conference Centre, Centurion

Sunday 30 July 2017

14h00 – 17h00	Registration
18h00 – 18h30	Cocktails and Get together
18h30 onwards	Dinner

Day One Monday 31 July 201

08h00	Registration and Coffee		
09h15	Opening and Welcome		
		291	M101
09h45	Martin Milton <i>Measurement, Metrology and the Environment</i> BIPM		
		172	M102
10h30	Tea/Coffee		
Stream	Calibration	Testing	Stack Emission Testing
11h00	Miloslav Suchanek <i>Interpretation of biological and chemical data</i> Czech Metrological Institute	Janine Coetzer <i>Agar sterilisation time, temperature and expiry dates for prepared media</i> Integral Labs	Mandla Maphumula <i>Evaluation of the thermogravimetric analysis (TGA) technique as an alternative for proximate analysis</i> ESKOM
	M103	111 M203	74 M303
11h30	Refuoe Pepenene <i>An overview of optimised dose measurement in conventional diagnostic radiology</i> NMISA	Heena Madhav <i>Comparative simulative studies using PHREEQC-Interactive and Visual MINTEQ model for understanding metal-NOM complexation occurring in cooling and raw water and the effects on saturation indices</i> ESKOM	Preilly Marebane <i>The analysis of complex multi-component gas mixtures for emission monitoring</i> NMISA
	1 M104	32 M204	242 M304
12h00	Van Zyl Koeglenberg <i>Using different technologies for method validation of projectile velocity measurement</i> Global Measurement Solutions (Pty) Ltd	Lucia Marais <i>Effective water quality management through the use of algal indices as water quality indicator</i> Midvaal Water Company	Owen Pretorius <i>Interlaboratory Comparison for Stack Particulate Matter Measurements</i> Sasol Secunda
	M105	212 M205	M305
12h30	LUNCH – Exhibition Viewing		

Stream	Calibration	Testing	Stack Emission Testing
13h30	<p>Nonhlanhla Cele <i>Beneficiation of sugarcane bagasse for materials development and energy generation in South Africa</i> NMISA 284 M106</p>	<p>Steve Sidney <i>Establishment of a Water Sub-Committee at the NLA-SA</i> NLA-SA 224 M206</p>	<p>Mpilo Dlamini <i>Development of a New Calibration Method to Resolve Back Pressure Effects on the Calibration of Gas Flow Meters</i> NMISA 249 M306</p>
14h00	<p>Regina Mnguni <i>Capability improvements of the NMISA humidity laboratory</i> NMISA 284 M107</p>	<p>Gundo Mathoho <i>Non-purging groundwater borehole sampling techniques practiced in a coal fired power station environment</i> ESKOM 55 M207</p>	<p>Gerald Woollatt <i>SOURCE MONITORING: An Overview of VOC sampling methods and reporting in South Africa</i> Levego 314 M307</p>
14h30	<p>Bouraoui Khachlouf <i>Understanding the uncertainties associated with the 5128A RHapid Cal portable humidity generator</i> Fluke Calibration 16 M108</p>	<p>Daleen von Mollendorf <i>Measurement uncertainty: An Alternative Approach for Measurement evaluation</i> Midvaal Water Company 158 M208</p>	<p>Mudalo Jozela <i>Development of multi-component volatile organic compound (VOC) reference gas mixtures</i> NMISA 256 M308</p>
15h00	Tea/Coffee – Exhibition Viewing		
Stream	Calibration	Testing	Stack Emission Testing
15h30	<p>Denis Louvel <i>Calibration of Weighing Instruments – Measurement Uncertainty</i> Mettler Toledo 193 M109</p>	<p>Kelley Reynolds-Clausen <i>The concomitant development of antibiotic resistance in biocide resistant populations in cooling water</i> ESKOM 435 M209</p>	<p>Jandri Ribberink <i>The influence of moisture on the resistivity of selected South African fly ashes</i> NWU 267 M309</p>
16h00	<p>Sipho Dlamini <i>Readout units and the calibration of load cells</i> NMISA 204 M110</p>	<p>Rodney Mashele <i>Blue Drop Certification Programme as an incentive based regulation for drinking water</i> DWS 230 M210</p>	<p>Quentin Hurt <i>Certification of personnel for emission testing: the goal in sight</i> Skyside 140 M310</p>
18h00	Pre-dinner drinks		
19h00	Banquet (Dress code: Jacket and Tie)		

Day Two Tuesday 1 August 2017

08h00	Registration and Coffee		
Stream			
09h00	Prags Govender <i>South Africa's International contributions to SQAM Rand Water</i>		148 T101
09h45	Angelique Botha <i>Update on the revision of ISO/IEC 17025 NMISA</i>		324 T102
10h30	Tea/Coffee and Manned Poster Session		
Stream	Calibration	Civils Material Testing	Quality
11h00	Gerrit Barnard <i>Can power quality effect laboratory measurements?</i> Comtest Distribution (Pty) Ltd 133 T103	Keith Nare <i>From Quarry to Laboratory a closer look into Dimensions and Operators that Matter: An Aggregate Grading and Flakiness Index Nexus</i> LABCO SOUTHERN AFRICA T203	Gumani Mphaphuli <i>Calibration of evidential breath analysers for South African law enforcement</i> NMISA 47 T303
11h30	Sven du Clou <i>NMISA fixed point cell purity using OME, SIE and liquidus point analysis</i> 341 NMISA T104	Sean Strydom <i>Civil laboratory services procurement by roads agencies and recent developments in the procurement regulations and documentation</i> South African National Roads Agency SOC Ltd T204	Annah Motaung <i>Applying technical requirements of ISO/IEC 17025:2005 in the Zoonotic diseases testing laboratory: Discussion on the challenges</i> Agricultural Research Council 65 T304
12h00	Gavin van Rooy <i>Practical uses of Thermistors in the calibration laboratory</i> Comtest Distribution (Pty) Ltd 350 T105	Carlton Weber <i>The calibration and field-use of Soils Nuclear gauges: Insights based on 35 years of experience</i> Weber Scientific and Robotics T205	Daniel Admasu <i>The Validation of Analytical methods</i> Ezana mining 278 T305
12h30	LUNCH – Exhibition Viewing		

Stream	Calibration	Civils Materials Testing	Quality
13h30	Goitsemanng Lekoto <i>Method development of Hazardous Air Pollutants Primary Standard Gas Mixtures</i> 8 NMISA T106	Sandiswa Jekwa <i>Uncertainty Measurement for Civil Engineering Test Methods</i> South African National Roads Agency SOC Ltd 443 T206	Rae Worroll <i>Misconceptions about accreditation in Zimbabwe National Laboratories Association of Zimbabwe</i> 86 T306
14h00	Silindile Lushozi <i>Validation of high accuracy methane primary reference gas standards for ambient air monitoring</i> NMISA 359 T107	Barry Pearce <i>PTS feedback, trends and methods in question Learning Matters etc</i> 298 T207	Guy Snelling <i>Relocating: Dos, Don'ts and Difficulties Intercal</i> 88 T307
14h30	David Mogale <i>Matrix effect on the measurement of methane in nitrogen versus methane in air</i> 24 NMISA T108	Jaco du Plessis <i>The NLA Concrete PT Scheme: Results and Findings Go Consult</i> 408 T208	Denis Louvel <i>Non-compliance risk management Mettler Toledo</i> 94 T308
15h00	Tea/Coffee – Exhibition Viewing		
Stream	Calibration	Civils Materials Testing	Quality
15h30	Kenneth Manana <i>Evaluation of machines and CMMs using a laser tracer</i> NMISA 368 T109	Sean Strydom <i>Civil Laboratory Technical Controller registration as a Specified Category with the Engineering Council of South Africa. What, Who Why and How</i> South African National Roads Agency SOC Ltd 383 T209	Mulugeta Damtew <i>From purpose based interpretation to appropriate application of Calibration and Interlaboratory comparison results</i> National Metrology Institute of Ethiopia T309
16h00	Rantshi Senona <i>Upgrade of the National Angle Standard</i> NMISA 376 T110	Jaco du Plessis <i>A behind the scenes look at multi million rand claims</i> Go Consult T210	John Wilson <i>PT/ILC Requirements - R48 and some implementation ideas</i> AMS (Pty) Ltd 457 T310
16h30	Closing		