



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

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

Day One Monday 31 July 201

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|--------|---|--|---|
| 08h00 | Registration and Coffee | | |
| 09h15 | Opening and Welcome | | |
| 09h45 | <p>Martin Milton <i>Measurement, Metrology and the Environment</i> BIPM</p> | | |
| 10h30 | Tea/Coffee | | |
| Stream | Calibration | Testing | Stack Emission Testing |
| 11h00 | <p>Miloslav Suchanek <i>Interpretation of biological and chemical data</i> Czech Metrological Institute</p> | <p>Janine Coetzer <i>Agar sterilisation time, temperature and expiry dates for prepared media</i> Integral Labs</p> | <p>Mandla Maphumula <i>Evaluation of the thermogravimetric analysis (TGA) technique as an alternative for proximate analysis</i> ESKOM</p> |
| 11h30 | <p>Refuoe Pepenene <i>An overview of optimised dose measurement in conventional diagnostic radiology</i> NMISA</p> | <p>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</p> | <p>Prely Marebane <i>The analysis of complex multi-component gas mixtures for emission monitoring</i> NMISA</p> |
| 12h00 | <p>Van Zyl Koeglenberg <i>Using different technologies for method validation of projectile velocity measurement</i> Global Measurement Solutions (Pty) Ltd</p> | <p>Lucia Marais <i>Effective water quality management through the use of algal indices as water quality indicator</i> Midvaal Water Company</p> | <p>Owen Pretorius <i>Interlaboratory Comparison for Stack Particulate Matter Measurements</i> Sasol Secunda</p> |
| 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 M106</p> | <p>Steve Sidney <i>Establishment of a Water Sub-Committee at the NLA-SA</i> NLA-SA 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 M306</p> |
| 14h00 | <p>Regina Mnguni <i>Capability improvements of the NMISA humidity laboratory</i> NMISA M107</p> | <p>Gundo Mathoho <i>Non-purging groundwater borehole sampling techniques practiced in a coal fired power station environment</i> ESKOM M207</p> | <p>Gerald Woollatt <i>SOURCE MONITORING: An Overview of VOC sampling methods and reporting in South Africa</i> Levego M307</p> |
| 14h30 | <p>Bouraoui Khachlouf <i>Understanding the uncertainties associated with the 5128A RHapid Cal portable humidity generator</i> Fluke Calibration M108</p> | <p>Daleen von Mollendorf <i>Measurement uncertainty: An Alternative Approach for Measurement evaluation</i> Midvaal Water Company M208</p> | <p>Mudalo Jozela <i>Development of multi-component volatile organic compound (VOC) reference gas mixtures</i> NMISA 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 M109</p> | <p>Kelley Reynolds-Clausen <i>The concomitant development of antibiotic resistance in biocide resistant populations in cooling water</i> ESKOM M209</p> | <p>Jandri Ribberink <i>The influence of moisture on the resistivity of selected South African fly ashes</i> NWU M309</p> |
| 16h00 | <p>Sipho Dlamini <i>Readout units and the calibration of load cells</i> NMISA M110</p> | <p>Rodney Mashele <i>Blue Drop Certification Programme as an incentive based regulation for drinking water</i> DWS M210</p> | <p>Quentin Hurt <i>Certification of personnel for emission testing: the goal in sight</i> Skyside M310</p> |
| 18h00 | Pre-dinner drinks | | |
| 19h00 | Banquet (Dress code: Jacket and Tie) | | |

Day Two Tuesday 1 August 2017

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| 08h00 | Registration and Coffee | | |
| Stream | | | |
| 09h00 | Prags Govender <i>South Africa's International contributions to SQAM</i> Rand Water | | |
| | T101 | | |
| 09h45 | Angelique Botha <i>Update on the revision of ISO/IEC 17025</i> NMISA | | |
| | 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 | 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 | Gumani Mphaphuli <i>Calibration of evidential breath analysers for South African law enforcement</i> NMISA |
| | T103 | T203 | T303 |
| 11h30 | Sven du Clou <i>NMISA fixed point cell purity using OME, SIE and liquidus point analysis</i> NMISA | 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 | 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 |
| | T104 | T204 | T304 |
| 12h00 | Gavin van Rooy <i>Practical uses of Thermistors in the calibration laboratory</i> Comtest Distribution (Pty) Ltd | Carlton Weber <i>The calibration and field-use of Soils Nuclear gauges: Insights based on 35 years of experience</i> Weber Scientific and Robotics | Daniel Admasu <i>The Validation of Analytical methods</i> Ezana mining |
| | T105 | T205 | T305 |
| 12h30 | LUNCH – Exhibition Viewing | | |

| Stream | Calibration | Civils Materials Testing | Quality |
|--------|--|---|---|
| 13h30 | Goitsemanang Lekoto <i>Method development of Hazardous Air Pollutants Primary Standard Gas Mixtures</i> NMISA T106 | Sandiswa Jekwa <i>Uncertainty Measurement for Civil Engineering Test Methods</i> South African National Roads Agency SOC Ltd T206 | Rae Worroll <i>Misconceptions about accreditation in Zimbabwe</i> National Laboratories Association of Zimbabwe T306 |
| 14h00 | Silindile Lushozi <i>Validation of high accuracy methane primary reference gas standards for ambient air monitoring</i> NMISA T107 | Barry Pearce <i>PTS feedback, trends and methods in question</i> Learning Matters etc T207 | Guy Snelling <i>Relocating: Dos, Don'ts and Difficulties</i> Intercal T307 |
| 14h30 | David Mogale <i>Matrix effect on the measurement of methane in nitrogen versus methane in air</i> NMISA T108 | Jaco du Plessis <i>The NLA Concrete PT Scheme: Results and Findings</i> Go Consult T208 | Denis Louvel <i>Non-compliance risk management</i> Mettler Toledo 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 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 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 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 T310 |
| 16h30 | Closing | | |