



## **Test and Measurement 2009 Conference**

**Misty Hills Country Hotel.**

**Sunday 13<sup>th</sup> September 2009**

17h00 – 18h00	<b>Registration</b>
18h00 – 18h30	<b>Sponsored Cocktails</b>
18h30 onwards	<b>Dinner</b>

Day One Monday 14<sup>th</sup> September 2009

07h45	<b>Registration and Coffee</b>			
Session Chairman				
Venue Room	<b>Pelindaba</b>			
08h15	<b>Opening and Welcome</b>			
	<b>M101</b>			
08h30	<i>Learning from the Dinosaurs and Attracting the Next Generation of Metrologists</i> Roxanne Robinson <b>NCSLI</b>			
	<b>M102</b>			
09h15	<i>An overview of past, current and future activities of EUROLAB</i> Jean-Marc Aublant <b>EUROLAB</b>			
	<b>M103</b>			
10h00	<b>Tea/Coffee</b>			
10h30	<i>The Past, The Present &amp; The Future of the NLA</i> Steve Sidney <b>NLA</b>			
	<b>M104</b>			
11h15	<i>Retaining critical and scarce skills in a recession</i> Mrs Chris Lamprecht <b>Spescom</b>			
	<b>M105</b>			
12h00	<b>LUNCH – Exhibition Viewing</b>			
Session Chairman				
Venue Room	<b>Nyala</b>	<b>Impala</b>	<b>Pelindaba</b>	<b>Springbok</b>

13h00	<p><i>Pressure calibration using electronic sensors</i> Mark Finch <b>FLUKE</b></p> <p style="text-align: right;"><b>M106</b></p>	<p><i>Define substrate and yeast extract method comparison: Recovery and enumeration of mesophilic heterotrophic bacteria in potable water</i> Jenny Culpan <b>Johannesburg Water</b></p> <p style="text-align: right;"><b>M206</b></p>	<p><i>How to improve basic analytical skills for effective laboratory operation and thereby produce reliable and credible analyses.</i> <b>Tinus Pieterse</b> Consultant</p> <p style="text-align: right;"><b>M306</b></p>	<p><i>The screening of agricultural commodities and physiological samples for fungi and mycotoxins</i> Mike Dutton <b>University of Johannesburg</b></p> <p style="text-align: right;"><b>M406</b></p>
13h30	<p><i>Quantifying uncertainty contributions for fibre optic power meter calibrations</i> Mariesa Nel <b>NMISA</b></p> <p style="text-align: right;"><b>M107</b></p>	<p><i>Crystalline silica analysis – External quality assurance pilot programme</i> Mathokone Jonas Shai <b>NIOH</b></p> <p style="text-align: right;"><b>M207</b></p>	<p><i>Are we doing things right or are we doing the right things?</i> Alwyn Fouché <b>SAA</b></p> <p style="text-align: right;"><b>M307</b></p>	<p><i>The role of metrology in chemistry for organics in food safety for South Africa</i> Maria Fernandez-Whaley <b>NMISA</b></p> <p style="text-align: right;"><b>M407</b></p>
14h00	<p><i>CCEM.RF-K5b.CL: A key comparison for S-parameter measurements in the coaxial 7 mm Line system using N-connectors up to 18 GHz</i> Erik Dressler <b>NMISA</b></p> <p style="text-align: right;"><b>M108</b></p>	<p><i>The significance of method validation in the determination of the best analytical techniques for the analysis of fluoride in various water matrices</i> Nkosinathi Mkondwane <b>Imvelo Enviroscience Services cc</b></p> <p style="text-align: right;"><b>M208</b></p>	<p><i>Staff recruitment for knowledge intensive organisations</i> Kgaugelo Masekela <b>NMISA</b></p> <p style="text-align: right;"><b>M308</b></p>	<p><i>The measurement challenge in bioscience – dealing with the data</i> Jane Morris <b>CSIR, UP and Wits</b></p> <p style="text-align: right;"><b>M408</b></p>
14h30	<b>Tea/Coffee – Exhibition Viewing</b>			
Session Chairman				
Venue Room	<b>Nyala</b>	<b>Impala</b>	<b>Pelindaba</b>	<b>Springbok</b>
15h00	<p><i>Calibration of gauge blocks with special focus on phase change</i> Oelof Kruger <b>NMISA</b></p> <p style="text-align: right;"><b>M109</b></p>	<p><i>Method validation for NO using the Fischer-Rosemount chemiluminescence analyser</i> Nompumelelo Leshabane <b>NMISA</b></p> <p style="text-align: right;"><b>M209</b></p>	<p><i>Incentive schemes for knowledge intensive organisations</i> NMISA mentee group</p> <p style="text-align: right;"><b>M309</b></p>	<p><i>Trends in international foodborne outbreaks of food poisoning and lessons for South Africa</i> Rob Stewart <b>NHLS</b></p> <p style="text-align: right;"><b>M409</b></p>
15h30	<p><i>Form error measurement using a coordinate measuring machine (CMM)</i> Floris van der Walt <b>NMISA</b></p> <p style="text-align: right;"><b>M110</b></p>	<p><i>Uncertainty in a microbiology laboratory – a Rand Water approach</i> Monique Grundlingh <b>Rand Water</b></p> <p style="text-align: right;"><b>M210</b></p>		<p><i>Standardisation of Expression Microarray Data Analysis</i> Jonathan Featherston <b>NHLS</b></p> <p style="text-align: right;"><b>M410</b></p>

16h00	<p><i>Development of high and medium temperature fixed points for use in radiometry and thermometry</i> Mikhail Sakharov <b>NMISA</b></p> <p style="text-align: right;"><b>M111</b></p>	<p><i>Uncertainty Estimation using method performance data of the method for isolation and detection of Cryptosporidium and Giardia (oo)cysts</i> Grace Booysen <b>Rand Water</b></p> <p style="text-align: right;"><b>M211</b></p>	<p><i>South African national agriculture and food laboratory capacity, serving an industry in need</i> Lise Korsten <b>UP</b></p> <p style="text-align: right;"><b>M411</b></p>
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17h00	<b>Sponsored Cocktails</b>		
18h00	<b>Dinner at the Carnivore Restaurant</b>		

Day Two Tuesday 15<sup>th</sup> September 2009

07h45	<b>Registration and Coffee</b>			
Session Chairman				
Venue Room	<b>Pelindaba</b>			
08h45	<b>OPENING, WELCOME AND ADMINISTRATIVE ISSUES</b>			
	<b>T101</b>			
09h00	<i>Can we foster technical competence in the wider African scenario?</i> Wynand Louw <b>NMISA</b>			
	<b>T102</b>			
09h45	<i>Research at the NMISA</i> Sara Prins <b>NMISA</b>			
	<b>T103</b>			
10h30	<b>Tea/Coffee and Manned Poster Session</b>			
Session Chairman				
Venue Room	<b>Bali</b>	<b>Nyala</b>	<b>Impala</b>	<b>Springbok</b>
11h00	<i>Tangential radiography for the wall thickness measurement of process piping</i> James Garland <b>OSG Testing (Pty) Ltd</b>  <b>T104</b>	<i>A new and novel test method for the measurement of paper and no-woven fabric wipes</i> Robert Heimann <b>Pratley Polymers Mfg (Pty) Ltd</b>  <b>T204</b>	<i>Adventures in Proficiency Testing</i> Ingrid Flemming <b>IFM Quality Services Pty Ltd</b>  <b>T304</b>	<i>Overview of the NLA Civil Engineering Materials Laboratories Subcommittee</i> Marius Cilliers <b>MTTC (Pty) Ltd</b>  <b>T404</b>
11h30	<i>Materials testing – at the cutting edge</i> Dion Keet <b>Apollo Scientific</b>  <b>T105</b>	<i>Analysis of stack gas reference materials using existing methods at the NMISA</i> Napo Ntsasa <b>NMISA</b>  <b>T205</b>	<i>Proficiency Testing and Interlaboratory Comparisons at the National Laboratory Association</i> Steve Sidney <b>NLA</b>  <b>T305</b>	<i>Translation of TMH1 test methods into SANS 3001 standards</i> Barry Pearce <b>Asphalt Academy &amp; Learning Matters etc</b>  <b>T405</b>
12h00	<i>Performing impact force calibrations</i> Ian Veldman <b>NMISA</b>  <b>T106</b>	<i>Measuring the effect of altitude on the radius of a sprinkler</i> Adriaan van Niekerk <b>ARC-IAE</b>  <b>T206</b>	<i>Evaluation of PT results and Elimination of Statistical outliers</i> Neville Tayler <b>SANAS</b>  <b>T306</b>	<i>What constitutes a competent roads laboratory tester or technician now &amp; in the future?</i> Barry Pearce <b>Asphalt Academy &amp; Learning Matters etc</b>  <b>T406</b>

12h30	<b>LUNCH – Exhibition Viewing</b>			
Session Chairman				
Venue Room	<b>Bali</b>	<b>Nyala</b>	<b>Impala</b>	<b>Springbok</b>
13h30	<p><i>Common problems in achieving maximum performance from dry-well thermometer calibrators</i> Mark Finch <b>FLUKE</b></p> <p style="text-align: right;"><b>T107</b></p>	<p><i>Trace gas analysis</i> John Swinley <b>Chromatography Consultants cc</b></p> <p style="text-align: right;"><b>T207</b></p>	<p><i>Evaluation of the proficiency testing needs of SANAS accredited laboratories</i> Marlan Pillay <b>SANAS</b></p> <p style="text-align: right;"><b>T307</b></p>	<p>Proficiency testing for civils and road construction Marius Cilliers <b>MTTC (Pty) Ltd</b></p> <p style="text-align: right;"><b>T407</b></p>
14h00	<p><i>An international standard for length – Defining the metre</i> Neville Tayler <b>SANAS</b></p> <p style="text-align: right;"><b>T108</b></p>	<p><i>The evaluation of method uncertainty – a practical example</i> Robin Avis <b>Johannesburg Water</b></p> <p style="text-align: right;"><b>T208</b></p>	<p><i>SADC water proficiency testing scheme</i> Donald Masuku <b>NMISA</b></p> <p style="text-align: right;"><b>T308</b></p>	<p><i>Bitumen Rubber Testing</i> Johan Muller <b>Bitumen &amp; Road Binders</b></p> <p style="text-align: right;"><b>T408</b></p>
14h30	<p><i>The Importance of Heat Stress Monitor Calibration</i> Yvette Volschenk <b>Technology Solutions</b></p> <p style="text-align: right;"><b>T109</b></p>	<p><i>Anemometry – Calibration in Turbulent Conditions</i> Luke Hards <b>Technology Solutions</b></p> <p style="text-align: right;"><b>T209</b></p>	<p><i>Proficiency Testing Scheme for chemical analysis of water in Africa</i> Meryllinda Conradie <b>NamWater</b></p> <p style="text-align: right;"><b>T309</b></p>	<p><i>Uncertainty Limits For Selected Tests</i> Wynand van Wyngaard &amp; Marius Cilliers <b>MTTC Pty Ltd</b></p> <p style="text-align: right;"><b>T409</b></p>
15h00	<b>Tea/Coffee – Exhibition Viewing</b>			
Session Chairman				
Venue Room	<b>Bali</b>	<b>Nyala</b>	<b>Impala</b>	<b>Springbok</b>
	<p><i>Thermocouples – Love them or Hate them – They are interesting!</i> John Wilson <b>Accreditation &amp; Metrology Services</b></p> <p style="text-align: right;"><b>T110</b></p>	<p><i>Uncertainty in microbiological analysis – A tutorial</i> Angelique Botha <b>NMISA</b></p> <p style="text-align: right;"><b>T210</b></p>	<p><i>Discussion forum: The users of proficiency testing schemes</i> Mukayi Musarurwa <b>SADC</b></p> <p style="text-align: right;"><b>T310</b></p>	<p><i>Discussion forum: A proposed framework for the qualification of Road Laboratory Testers &amp; Technicians</i> <b>Barry Pearce &amp; Marius Cilliers</b></p> <p style="text-align: right;"><b>T410</b></p>

19h00	<b>Pre-dinner drinks</b>
	<b>Banquet</b> (Dress code: Jacket and Tie)

**Day Three Wednesday 16<sup>th</sup> September 2009**

07h45	<b>Registration and Coffee</b>		
Session Chairman			
Venue Room	<b>Pelindaba</b>		
08h45	OPENING, WELCOME AND ADMINISTRATIVE ISSUES <b>W101</b>		
09h00	<i>NCSLI and its vision for the future</i> Roxanne Robinson <b>NCSLI</b> <b>W102</b>		
09h45	<i>Accreditation issues (Title to be confirmed)</i> (Speaker to be confirmed) <b>SANAS</b> <b>W103</b>		
10h30	<b>Tea/Coffee and Manned Poster Session</b>		
Session Chairman			
Venue Room	<b>Impala</b>	<b>Springbok</b>	<b>Pelindaba</b>
11h00	<i>Traceability of measurement equipment in testing laboratories</i> Bart van Oostrom <b>Consultant</b> <b>W104</b>	<i>Development of chemical testing laboratory capacity to expand the scope of Good Laboratory Practice compliant testing facilities</i> Herman Wiechers <b>DNW Environmental Consultancy</b> <b>W204</b>	<i>A basic introduction to reference materials</i> Angelique Botha <b>NMISA</b> <b>W304</b>

11h30	<p><i>The added benefits of accreditation</i> Malan Naudé <b>Consultant: Aquafundi</b></p> <p style="text-align: right;"><b>W105</b></p>	<p><i>Are you getting what you paid for? - Requirements for a SANAS calibration certificate</i> Dion Keet <b>Apollo Scientific</b></p> <p style="text-align: right;"><b>W205</b></p>	
12h00	<p><i>Common Problems in Microbiology Testing</i> Ingrid Flemming <b>IFM Quality Services Pty Ltd</b></p> <p style="text-align: right;"><b>W106</b></p>	<p><i>The Impact of Legal Metrology System in South Africa</i> Thabo Chesalokile <b>SANAS</b></p> <p style="text-align: right;"><b>W206</b></p>	
12h30	<b>LUNCH – Exhibition Viewing</b>		
Session Chairman			
Venue Room	<b>Springbok</b>		<b>Pelindaba</b>
13h30	<p><i>Certificates, Errors, Uncertainties and Specifications !!!!!</i> John Wilson <b>Accreditation &amp; Metrology Services</b></p> <p style="text-align: right;"><b>W107</b></p>	<p><i>Discussion forum: Users of reference materials</i> Mukayi Musarurwa <b>SADC</b></p> <p style="text-align: right;"><b>W307</b></p>	
Session Chairman			
Venue Room	<b>Pelindaba</b>		
16h00	<b>Conference Closing/Lucky Prize Draw</b>		
16h30	<b>Tea/Coffee and departure</b>		