



## ANALITIKA 2018 DRAFT PROGRAMME

<b>Sunday 22 July 2018</b>		
14:00 – 18:00	Exhibition stand build-up	
14:30 – 17:30	Registration	
15h00	Game Drives (pre-booking)	
18:00 – 21:00	Welcome Function	
<b>Monday 23 July 2018</b>		
8h00	Registration	
8h30	Conference welcome address Patricia Forbes	
8h40	<b>Chair: Patricia Forbes</b> <b>Plenary 1:</b> Organic synthesis and chemical analysis by mass spectrometry Graham Cooks	
9h40	<b>Session Chair: Eric Reiner</b> <b>Keynote 1:</b> Innovative analytical approaches for analysis of ambient air well as emission- and workplace-aerosols Ralf Zimmermann	<b>Session Chair: Charlotta Turner</b> <b>Keynote 2:</b> Challenges in developing a South African herbal Pharmacopeia - A national priority Alvaro Viljoen
10h10	LA1: Multi-channel polydimethylsiloxane denuder devices for the determination of gas and particulate phase polycyclic aromatic hydrocarbons in underground mines Genna-leigh Schoonraad	LB1: Optimization of water extraction with on-line particle formation of Moringa Oleifera Yannick Nuapia
10h30	LA2: Sample treatment methods for accurately quantifying total iodine and mercury in atmospheric particulate matter samples using inductively coupled plasma – mass spectrometry (ICP–MS) Richard Webster	LB2: Separation and analysis of phenolic compounds in depolymerized lignin samples by ultra-high-performance supercritical fluid chromatography Margareta Sandahl
10h50	TEA	
11h30	LA3: Development of a solid phase extraction - gas chromatography method for the determination of endocrine disrupting pesticides in water from water treatment plants Stefan Louw	LB3: Isolation of standards for quantification of compounds in Moringa oleifera and Mondia whitei using preparative chromatographic techniques Ramakwala Chokwe

11h50	LA4: Flower of Typha latifolia as a low cost adsorbent for removal of selected multi pesticide residues in contaminated aqueous samples Teshome Dadi	LB4: Phytoremediation potential of Hyptis suaveolens and Euphorbia hirta weed plants Stephen Agwuncha
12h10	LA5: Routine pesticide multi methods redefined – maximizing benefits of high resolution mass spectrometry in food contaminant analysis Laszlo Hollosi	LB5: Chemical profiling of Marchantiophyta occurring in South Africa Johan Linde
12h30	LUNCH	
13h30	<b>Chair: Liezel van der Merwe</b> <b>Plenary 2:</b> The power of thermal analysis in applied materials research Walter Focke	
14h30	<b>Session Chair: Graham Cooks</b> LA6: Screening of antiretroviral compounds and their metabolites in aqueous environmental matrices using UHPLC-HRMS, UHPLC-MS/MS and SFC-MS/MS Tlou Mosekiemang	<b>Session Chair: Walter Focke</b> LB6: Application of thermogravimetric analysis in the investigation of mineral transformations during thermochemical treatment of mineral wastes Liezel van der Merwe
14h50	LA7: Non-steroidal anti-inflammatory drugs residues in river water, sediments and aquatic plant species of Mbokodweni River in South Africa Lawrence Madikizela	LB7: Fluoropolymer characterisation using thermal analysis methods William Venner
15h10	LA8: A novel fluorescence sensor for acetaminophen Hanieh Montaseri	LB8: A thermogravimetric investigation into the synthesis of cobalt (III) fluoride Bernard Vilakazi
15h30	TEA	
16h00	LA9: The analysis of endogenous steroids in human urine by GC-C-IRMS Elandré Marais	LB9: A comparison of different quantification approaches for trace analysis by high resolution inductively coupled plasma mass spectrometry (HR- ICP-MS) – The case of elements in soil Angelique Botha
16h20	LA10: Stability of some of the components of the street drug nyaope in organic solvents Pabalala Mthembi	LB10: Real Time Process Control Analyses by Hand Held X-Ray Fluorescence Spectroscopy for PGM Processing Chantelle Engelbrecht
16h40	LA11: Removal of sulphonamide drugs from wastewater using nanofiber from Moringa Stenopetala protein extract Temesgen Kebede	LB11: Gravimetric preparation and value assignment of a high accuracy elemental calibration standard solution – critical aspects Maré Linsky
17h00	LA12: Analytical Techniques and Requirements of a Doping Control Laboratory Ebeth Grobbelaar	LB12: Determination of rare earths and non-rare earths in metallurgical samples by inductively coupled plasma optical emission spectroscopy Dhiroshnee Govender
17h30	<b>SAAMS AGM</b>	<b>ThermSA AGM</b>
18h30	Braai in the White Lion Lapa	

## Tuesday 24 July 2018

8h00	Registration	
8h30	<b>Chair: Lily Marjanovic</b> <b>Plenary 3:</b> Gary Hieftje: Is There No Better Analytical Plasma Source than the ICP?	
9h30	<b>Session Chair: Ralf Zimmermann</b> <b>Keynote 3:</b> Silicone rubber concentrating samplers – from environmental and aroma applications to the analysis of human skin volatiles by GCxGCMS Egmont Rohwer	<b>Session Chair: Gary Hieftje</b> <b>Keynote 4:</b> Identification, isolation and determination of biomarkers for quality control of Bush Tea ( <i>Athrixia phyllicoides</i> ) Sandra Combrinck
10h00	<b>LC1:</b> Analysis of Semi Volatile Organic Compounds (SVOC) with In-situ Derivatization Thermal Desorption Two-dimensional Gas Chromatography and Time of Flight Mass Spectrometry (IDTD-GCxGC-ToF-MS) Juergen Orasche	<b>LD1:</b> Identification of lignin oligomers in kraft lignin using high-resolution mass spectrometry Jens Prothmann
10h20	<b>LC2:</b> Additive assisted DLLME and UHPLC-ESI-MS for trace analysis of a secondary biogenic emission marker in atmospheric aerosols Hafiz Abdul-Azeem	<b>LD2:</b> UPLC-MS analysis of phenolic compounds in rooibos tea ( <i>Aspalathus linearis</i> ) with a comparison of flavonoid-based compounds in plants from different regions Malcolm Taylor
10h40	TEA	
11h10	<b>LC3:</b> Evaluation of sample preparation methods for GC-MS and GC x GC-HR-TOFMS analysis of South African Chenin blanc volatiles Sithandile Ngxangxa	<b>LD3:</b> A simple validated method for the extraction and quantification of tazarotenic acid in human plasma by high performance liquid chromatography tandem mass spectrometry Machel Leuschner
11h30	<b>LC4:</b> A comparison of the results obtained for the analysis of South African Pinotage wines using Hydrogen and Helium as carrier gases Peter Gorst-Allman	<b>LD4:</b> Biotin labelling based method for membrane protein enrichment Wonder Nxumalo
11h50	<b>LC5:</b> Total analysis and speciation of arsenic in South African staple food products by Ion Chromatography coupled to Inductively Coupled Plasma Mass Spectrometry (IC-ICP-MS) Magadima Thosago	<b>LD5:</b> Development and validation of a method for small peptides for doping control Faith Ndluvo
12h10	<b>LC6:</b> Chemical profiling of the human skin surface for malaria vector control using a non-invasive solvent modified sorptive sampler with GCxGC-TOFMS and UPLC-IMS-HRMS Madalien Wooding	<b>LD6:</b> Accurate mass spectrometric peptide detection and quantitation in food: the case of allergens and meat speciation Volker Kruff
12h30	LUNCH	
13h30	<b>Chair: Matthew Nindi</b> <b>Plenary 4:</b> Green and sustainable analytical chemistry – From plants to high-value products Charlotta Turner	

14h30	<b>Session Chair: Luke Chimuka</b> LC7: Analysis of oxidised heavy paraffinic products by high temperature comprehensive two-dimensional gas chromatography Hein Potgieter	<b>Session Chair: Wiana Louw</b> LD7: Comparative study of the adsorption capacity of lead (II) ions onto bean husk and fish scale from aqueous solution Chionyedua Onwordi
14h50	LC8: Combination of freeze crystallization and vacuum evaporation as pre-treatment for the recovery of commercial products from coal mine drainage Nsaka Ntumba	LD8: Dissolution of wild silkworm ( <i>Argema mimosae</i> ) silk fibroin and fabrication of films Hlobisile Kgomo
15h10	LC9: Environmental rating of pneumatic tyres Motshabi Sibeko	LD9: Non-routine methods and how they fit in an analytical facility Jeanri Coetzee
15h30-17h00	<b>POSTER SESSION</b> (TEA served from 15h30-16h00)	
17h00	<b>ChromSA AGM</b>	
19h15	Conference Dinner: Queen of Sheba	

### Wednesday 25 July 2018

8h00	Registration
8h30	<b>Chair: Patricia Forbes</b> <b>Plenary 5:</b> Analysis of Target and Non-Target Environmental Contaminants Using a Universal Mass Spectrometer System Eric Reiner
9h30	<b>Session Chair: Egmont Rohwer</b> <b>Keynote 5:</b> Technical development and optimisation of passive samplers for metal ions in polluted water bodies Luke Chimuka
10h00	TEA
10h30	LE1: Method development for the determination of halogenated organophosphorus flame retardants in water samples Tlou Chokwe
10h50	LE2: Towards hyphenated microextraction techniques for efficient and cost effective extraction of organic pollutants from aqueous media Mosotho George
11h10	LE3: Petroleum hydrocarbon profiles of water and sediment of Algoa bay, Eastern Cape, South Africa Abiodun Adeniji
11h30	LE4: Environmental fate of persistent organic pollutants: Their mobility and detection in coal and sediment leachates Mathapelo Seopela
11h50	LE5: Factorial Design Optimization of Solid Phase Extraction For Preconcentration Of Parabens In Wastewater Using Ultra-High Performance Liquid Chromatography Triple Quadrupole Mass Spectrometry Vallerie Muckoya
12h10	LE6: Development of a single format membrane assisted solvent extraction-molecularly imprinted polymer technique for extraction of polycyclic aromatic hydrocarbons in wastewater followed by gas chromatography mass spectrometer determination Somandla Ncube

12h30	LE7: Connecting the dots.....imputation of missing analytical and environmental data using machine learning techniques Hlanganani Tutu
12h50	CLOSURE Patricia Forbes
13h00	LUNCH