Sunday, 11 October 2026	
14:00 – 17:00	Registration
18:00	**Welcome Function,** Sponsored by Restek **(Chair: Elize Smit)**
Monday, 12 October 2026	
08:00 – 09:00	Registration & Coffee
Giraffe Venue | Session 1 (Chair: Madelien Wooding) **Welcome I**	
09:00 – 09:15	Welcome Address: Madelien Wooding
09:15 – 10:00	Opening plenary lecture: **Deirdre Cabooter |** University of Leuven Pushing the boundaries of environmental analysis with comprehensive two-dimensional liquid chromatography
10:00 – 10:30	**Refreshments & Transition**
10:30 – 12:15	Parallel Session
Giraffe Venue | Session 2 (Chair: Lawrence Madikizela) **Environmental Analysis & Water Monitoring I**	
10:30 – 11:00	**KN1 [Keynote]** **Luke Chimuka** | University of the Witwatersrand Technical designs and applications of passive samplers for water monitoring
11 :00 – 11:20	**LE1** **Ntoko Leakwe** | SASOL I R&T Mixed phase VOC sampling for environmental compliance monitoring
11:20 – 11:35	**YLE1** **Neale Berkenbosch** | University of Pretoria A burning problem: Polycyclic aromatic hydrocarbons from open domestic solid waste burning
11:35 – 11:50	**YLE2** **Samkelo Dlamini** | University of South Africa Low-density hydrophobic deep eutectic solvent assisted dispersive liquid-liquid microextraction (LD-HDES-DLLME) combined with HPLC-DAD for the determination of select pesticide residues in South African herbs and spices.
11:50 – 12:05	**YLE3** **Boitumelo Nokeri** | University of Pretoria Implementation of continuous TD-GC-MS for ambient volatile organic compounds monitoring in South Africa
12:05 – 12:15	**VLE1** **Jan Bohuslavek |** Waters Corporation The analysis of PFAS compounds and other organic contaminants in drinking and surface water using LC/MS/MS technology.
12:15 – 13:45	**Lunch & Exhibition (Tlou venue)**
13:45 – 15:45	Parallel Session

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10:30 – 12:15	Parallel Session
Zebra Venue | Session 3 (Chair: André de Villiers) **Natural Products & Food Analysis I**	
10:30 – 11:00	**KN2 [Invited]** **Vinesh Maharaj** | University of Pretoria Keynote Lecture: From biodiversity to bioactive leads: Integrating natural, artificial and human intelligence in natural product drug discovery
11:00 – 11:15	**YLE4** **Betty Ajibade** | Durban University of Technology Chromatographic and spectrophotometric profiling of ryazhenka, a Traditional Russian Fermented Milk: A GC–MS Metabolomics Approach
11:15 – 11:30	**YLE6** **Cheryl Naidoo** | University of the Witwatersrand Response surface optimisation of hydrodistillation Parameters for the extraction of essential oil from *Agathosma betulina* (Buchu) Leaves
11:30 – 11:45	**YLE7** **Samukelisiwe Nhlapho** | University of Johannesburg Non-targeted profiling of volatile compounds for the authentication of honey origin.
11:45 – 11:55	**Vendor Presentation:** Shimadzu
12:00 – 13:45	**Lunch & Exhibition (Tlou venue)**
13:45 – 15:45	Parallel Session

Monday, 12 October 2026	
Giraffe Venue A | Session 4 (Chair: Patricia Forbes) **Environmental Analysis, Food Contaminants & Water Treatment II**	
13:45 – 14:15	**KN3 [Invited]** **Martin Brits** | Southern African Grain Laboratory (SAGL) Extended assessment of mycotoxins in South African pre- and post-storage maize
14:15 – 14:30	**YLE8** **Samuel Makobe** | University of Johannesburg Investigation of the synergic ecotoxicological effects of potentially toxic elements (PTEs) and polycyclic aromatic hydrocarbons (PAHs) in water and sediments from Klip River, Johannesburg, South Africa using the zebrafish embryo development test (ZFET)
14:30 – 14:45	**YLE9** **Nothando Mandlazi** | University of South Africa Non-targeted screening of emerging pollutants across wastewater and receiving waters: A case study in Eswatini
14:45 – 15:00	**YLE10** **Thandeka Mbatha** | University of KwaZulu-Natal Exploration of *Artemisia afra* leaves as bio-adsorbents for effective removal of pharmaceutical contaminants from wastewater: Kinetics, isotherms and thermodynamics
15:00 – 15:15	**YLE11** **Natasha Kotzé** | University of Pretoria Comparative analysis of chemical variability across *Psilocybe* species and strains
15:15 – 15:35	**LE2** **Adeyemi Adeeyo** | University of South Africa; University of KwaZulu-Natal; uMngeni-uThukela Water; University of Venda Water purification with different ferrite and silver doped formulations
15:35 – 15:45	**VLE3** **Christina Kannigadu** | LECO Africa Advanced GC×GC-TOFMS workflows for target and non-target screening in complex tobacco matrices
15:45 – 16:15	**Refreshments, Exhibition and Poster viewing**
16:15 – 17:15	Poster Session 1 - Group A
18:30	**Braai Evening,** Sponsored by Separations

Monday, 12 October 2026	
Zebra Venue | Session 5 (Chair: Deirdre Cabooter) **Natural Products & Phytochemistry II**	
13:45 – 14:15	**KN4 [Invited]** **Mathapela Seopela** | University of Johannesburg Keynote lecture: Chemical profiling and monograph development for the quality control of medicinal plants: A focus on devil's claw and sceletium tortuosum
14:15 – 14:30	**YLE12** **Frances Sewell** | University of Pretoria Sorptive insights into the bio-accessibility and bioavailability of *Vaccinium macrocarpon* phytochemicals for the treatment of UTIs – from berry to belly and beyond
14:30 – 14:45	**YLE13** **Pfano Witness Maphari** | University of Johannesburg Integrating machine learning and LC-MS-based metabolomics to validate ethnopharmacological anti-plasmodial medicinal plants
14:45 – 15:00	**YLE14** **Mukonazwothe Tshifura** | University of Johannesburg LC-MS/MS-based molecular networking for plant-specific biomarker discovery and batch-to-batch quality assessment of a multi-component anti-bronchitis herbal mixture.
15:00 – 15:15	**YLE15** **Alejandro Mendoza Cantu** | University of Antwerp Fermentation-induced molecular remodeling in South African indigenous tubers: Cassava and cocoya
15:15 – 15:30	**VLE4** **Gertrude Makgatho** | PerkinElmer LCMS characterisation of phytochemical integrity and dosage in a multifunctional nanobiopolymer formulation for wound healing applications
15:30 – 16:15	**Refreshments, Exhibition and Poster viewing**
16:15 – 17:15	Poster Session 1 - Group A
18:30	**Braai Evening,** Sponsored by Separations

Tuesday, 13 October 2026

08:30 – 09:00	Registration
Giraffe Venue | Session 6 (Chair: Madelien Wooding)	
09:00 – 09:45	Plenary lecture: **Sooraj Baijnath |** University of the Witwatersrand Mass spectrometry imaging: The past, the present and the future
09:45 – 10:15	**Refreshments / transition**
10:15 – 12:15	Parallel Session
Giraffe Venue | Session 7 (Chair: Sooraj Baijnath) **Metabolomics & Biomedical Applications**	
10:15 – 10:45	**KN5 [Invited]** **Fidele Tugizimana** | University of Johannesburg From peaks to purpose: Chromatography, mass spectrometry and AI for plant biostimulants, natural products and sustainable futures
10:45 – 11:05	**LE3** **Thrineshen Moodley** | North-West University The pharmacokinetic analysis of a novel antimalarial in whole blood
11:05 – 11:25	**LE4** **Yvette Naudé** | University of Pretoria Skin in the game: PDMS wristbands capture the human skin volatilome to reveal pesticide exposure and disease by GC×GC-TOFMS
11:25 – 11:45	**LE5** **Ilse Du Preez** | North-West University From manual pipetting to automated workflows: Enhancing LC-MS and GC-MS applications through laboratory automation
11:45 – 12:00	**YLE17** **Lorraine Greyvenstein** | University of Pretoria Non-invasive profiling of the human skin surface metabolome by UPLC-IMS-HRMS for tuberculosis biomarker identification
12:00 – 12:15	**YLE18** **Scelo Khumalo** | Sefako Makgatho Health Sciences University Fecal short-chain fatty acid profiling in type 2 diabetes mellitus using GC–MS: A comparative study in a South African population
12:15 – 12:25	**Vendor presentation:** Bruker
12:15 – 13:45	**Lunch & Exhibition (Tlou venue),** Sponsored by PerkinElmer
13:45 – 17:30	Social Activity, Sponsored by Anatech
18:30	**Pizza Night,** Sponsored by Peak Scientific

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09:45 – 10:15	**Refreshments / transition**
10:15 – 12:15	Parallel Session
Zebra Venue | Session 8 (Chair: Precious Mahlambi) **Specialised Separations, Imaging & Molecular Networks**	
10:15 – 10:45	**KN6 [Keynote]** **André Venter** | Western Michigan University Protein analysis by desorption electrospray ionization mass spectrometry
10:45 – 11:05	**LE6** **Hein Potgieter** | SASOL Improved class separation by GC×GC of volatile hydrocarbons with an unconventional increase in the second-dimension plate number.
11:05 – 11:20	**YLE19** **Emma Nghilokwa** | North-West University Analytical challenges in the quantification of artemether in CYP2B6-humanised mouse plasma by LC-MS/MS
11:20 – 11:35	**YLE20** **Belinda Siangu** | University of South Africa Non-targeted analysis and characterization of volatile organic compounds in water and clay from Isinuka Spa, Eastern Cape, South Africa using GC×GC-TOF-MS
11:35 – 11:50	**YLE21** **Thabang Ncongwane** | University of Johannesburg Sequential order of reactivity in quercetin: A high-resolution mass spectrometry and DFT calculations perspective
11:50 – 12:00	**VLE2** **Sven Bahrke** | Knauer Wissenschaftliche Geräte GmbH The Knauer food analyzer: Flexibility for tailored solutions in your food laboratory
12:00 – 13:45	**Lunch & Exhibition (Tlou venue),** Sponsored by PerkinElmer
13:45 – 17:30	Social Activity, Sponsored by Anatech
18:30	**Pizza Night,** Sponsored by Peak Scientific

Wednesday, 14 October 2026	
08:30 – 09:00	Registration
Giraffe Venue | Session 9 (Chair: Yvette Naudé)	
09:00 – 09:45	Plenary lecture: **Jean-François Focant** | University of Liège GC×GC-TOFMS for medical volatolomics
09:45 – 10:15	**Refreshments / Transition**
10:15 – 12:15	Parallel Session
Giraffe Venue | Session 10 (Chair: Ireshyn Govender) **Proteomics & Biomedical Omics**	
10:15 – 10:45	**KN7 [Invited]** **Peter Verhaert |** University of Leuven Accelerating the adaptation of mass spectrometry imaging in pathology
10:45 – 11:00	**LE7** **Rethabile Mokoena** | CSIR Investigating potential plasma nephrotoxicity biomarkers associated with first-line antiretroviral therapy regimens in people living with HIV (PLHIV) in South Africa.
11:00 – 11:15	**YLE22** **Glen Khumalo** | Centre for Human Metabolomics The role of mass spectrometry-based proteomics in rare disease diagnostics and research: A focus on mucopolysaccharidosis
11:15 – 11:30	**YLE23** **Rozaan Piekaar** | University of Pretoria Non-invasive collection of the human skin volatilome to find differential markers of tuberculosis by GCxGC-TOFMS
11:30 – 11:45	**YLE24** **Ontefetse Plaatjie** | North-West University LC-MS metabolomics of cerebrospinal fluid in paediatric Tuberculous Meningitis
11:45 – 11:55	**Vendor presentation:** ANATECH
11:55 – 13:00	**Lunch**
13:00 – 14:00	Poster Session - Group B

Wednesday, 14 October 2026	
08:30 – 09:00	Registration
Giraffe Venue | Session 9 (Chair: Yvette Naudé)	
09:00 – 09:45	Plenary lecture: **Jean-François Focant** | University of Liège GC×GC-TOFMS for medical volatolomics
09:45 – 10:15	**Refreshments / Transition**
10:15 – 12:15	Parallel Session
Zebra Venue | Session 11 (Chair: André Venter) **Natural Products, Plant Metabolomics & Molecular Networking**	
10:15 – 10:45	**KN8 [Invited]** **Federica Pellati** | University of Modena and Reggio Emilia Current challenges in the analysis of bioactive endogenous compounds: A case study on *p*-cresol
10:45 – 11:00	**YLE27** **Asanda Mavodze** | University of Johannesburg Integrative computational metabolomics and bioactivity profiling of a South African medicinal plant, *Heteropyxis natalensis*
11:00 – 11:15	**YLE28** **Fhumulani Mutshaeni** | University of Johannesburg Untargeted metabolomics enables detection of natural antibiotics in aquatic systems of Limpopo Province, South Africa
11:15 – 11:30	**YLE29** **Lufuno Mabogo** | University of Johannesburg Computational metabolomics to investigate the medicinal properties of *Nauclea latifolia* plant extracts: Antimicrobial Activity.
11:30 – 11:45	**YLE30** **Ntokozo Victoria Macu** | University of Johannesburg Biomimetic synthesis of zinc oxide nanoparticles using *Bacillus megaterium* for sustainable agriculture.
11:45 – 13:00	**Lunch**
13:00 – 14:00	Poster Session – Group B

Wednesday, 14 October 2026	
Giraffe Venue | Session 12 (Chair: Hein Potgieter) **Environmental Analysis III & Inorganic / Elemental Analysis**	
14:00 – 14:15	**LE9** **Tumelo Monty Mogashane** | Mintek Assessing and enhancing analytical approaches for phosphorus quantification in high-titanium geological samples
14:15–14:30	**YLE31** **Thea Smuts** | University of Pretoria Odour chemical fingerprinting: A hazardous waste facility case study utilising TD-GCxGC-ToFMS
14:30 – 14:45	**YLE32** **Ntsieni Molaudzi** | University of Johannesburg Solar simulated degradation kinetics of amoxicillin, carbamazepine, and diclofenac: A fluorescence excitation-emission matrices deconvolution and chromatographic approach
14:45 – 15:00	Refreshment Break
15:00 – 16:30	ChromSA AGM / SAAMS AGM
19:00	**Conference Dinner,** Sponsored by Microsep **Closing Ceremony and Prize Giving**

Thursday, 15 October 2026 - Workshop	
09:00 – 10:45	Mass spectrometry in practice: From fundamentals to complex mixture analysis and structure elucidation - Part 1
10:45 – 11:15	**Refreshment Break**
11:15 – 13:00	Mass spectrometry in practice: From fundamentals to complex mixture analysis and structure elucidation - Part 2
13:00	**Lunch and departure**

Wednesday, 14 October 2026	
Zebra Venue | Session 13 (Chair: Thrineshen Moodley) **Metabolomics, Clinical Omics & Data Science Continuation**	
14:00 – 14:15	**YLE25** **Moilakgala Selepe** | University of Johannesburg Integration of LC–MS/MS and computational metabolomics for comparative profiling of selected A*rtemisia* species.
14:15 –14:30	**YLE34** **Maltase Mutanda** | University of South Africa Metabolic reprogramming in finger millet following ethyl methanesulfonate mutagenesis
14:30 – 14:45	**YLE35** **Nokuphiwa Prudence Madlala** | University of South Africa Comprehensive characterisation of urinary volatile organic compound exposure in petrol attendants, Johannesburg, using GC-TOFMS and GC-MSD biomonitoring approaches.
14:45 – 15:00	Refreshment Break
15:00 – 16:30	ChromSA AGM / SAAMS AGM
19:00	**Conference Dinner,** Sponsored by Microsep **Closing Ceremony and Prize Giving**

Thursday, 15 October 2026 - Workshop	
09:00 – 10:45	Mass spectrometry in practice: From fundamentals to complex mixture analysis and structure elucidation - Part 1
10:45 – 11:15	**Refreshment Break**
11:15 – 13:00	Mass spectrometry in practice: From fundamentals to complex mixture analysis and structure elucidation - Part 2
13:00	**Lunch and departure**