

Program Book



SETAC Africa 12th Biennial Meeting

SETAC 9th World Congress

29 September–3 October 2025 | Johannesburg, South Africa

Sustainable Development in a Changing World: Integrating Environmental Science, Policy and Practice

Sponsors

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Welcome to Joburg!

We are thrilled to welcome you to Johannesburg for the SETAC 9th World Congress/SETAC Africa 12th Biennial Meeting. This event brings together scientists, regulators, business representatives and students from around the world to exchange ideas, share cutting-edge research and strengthen connections across disciplines, sectors and regions.

The conference theme, “Sustainable Development in a Changing World: Integrating Environmental Science, Policy and Practice,” invites us to reflect on the growing importance of linking scientific innovation with decision-making and real-world solutions. It challenges us to consider how our work can contribute to healthier environments, stronger communities and a more sustainable future.

Throughout the week, you will have opportunities to engage in workshops, platform and poster sessions, plenary talks, discussions and informal networking. We encourage you to explore new collaborations, learn from diverse perspectives and take inspiration from the vibrant SETAC community. Together, let's use this congress to advance science and build a legacy that extends well beyond Johannesburg.

Looking forward to a rewarding week,
SETAC together with the Program Committee

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Online Platform

For the most up-to-date program information, scan the QR code to visit the online meeting platform.

Wifi Networks

@southernsun or
@southernsun conference

Program Committee

Meeting Chairs

Tarryn Botha, University of Johannesburg, South Africa

Conrad Sparks, Cape Peninsula University of Technology, South Africa

Wynand Malherbe, North-West University, South Africa

Committee Members

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Beatrice Opeolu, BEE Solutions and Consultancy Services, South Africa

Bryan Brooks, Baylor University, United States

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Megan Solan, Harvard University, United States

Nicolaas Wolmarans, North-West University, South Africa

Nkechinyere Isienyi, Forestry Research Institute of Nigeria, Nigeria

Paul d'Abzac, Bolivian Catholic University San Pablo, Bolivia

Paul van den Brink, Wageningen University and Research (WUR), Netherlands

Randal Albertus, Sasol South Africa (Pty) Ltd, South Africa

Sabine Apitz, SEA Environmental Decisions Ltd, United Kingdom

Victor Wepener, North-West University, South Africa

Badges

Badges must be worn to gain access to the meeting.

Certificates of Attendance

Participants and presenters will receive an email after the meeting with information on how to download their certificates.

Emergencies and First Aid

If you need medical attention, ask any of the local volunteers. For emergencies, dial 10111 from anywhere in South Africa.

📶 Wifi Information

Free wireless internet will be available throughout the venue during the conference hours. Connect to [@southernsun](#) or [@southernsun conference](#). Please note, connections may be slower during peak hours.

SETAC Policies

SETAC provides open, safe forums for the purpose of exchanging ideas and information on the study, analysis and solution of environmental problems, the management and regulation of natural resources, promotion of scientific research and the development of strong environmental education.



Attendees of SETAC meetings are expected to adhere to all SETAC policies, including SETAC Participant Policies.

Learn more at www.setac.org/learn-about-setac/policies.html or scan the QR code.

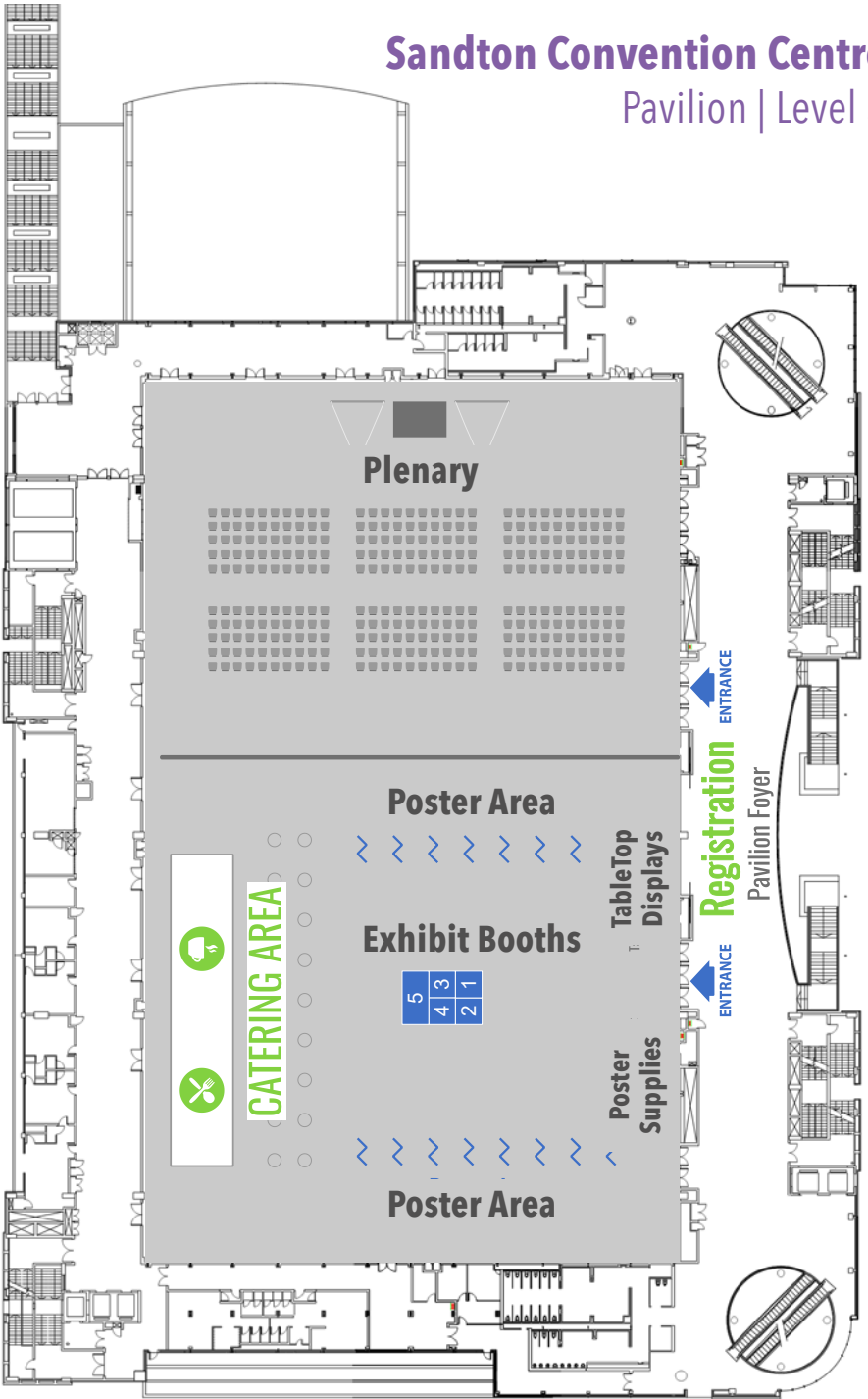
Conduct

Participants in SETAC activities are expected to adhere to the highest standards of integrity and professionalism and comply with the SETAC Code of Conduct. Attendees are reminded to observe SETAC's principles and values and to maintain an atmosphere of civil and constructive scientific exchange.

If you experience or witness harassment or inappropriate behavior at the meeting, please report any incidents to any SETAC staff member or contact one of the SETAC compliance officers at concerns@setac.org. For more information, visit the SETAC policies page.

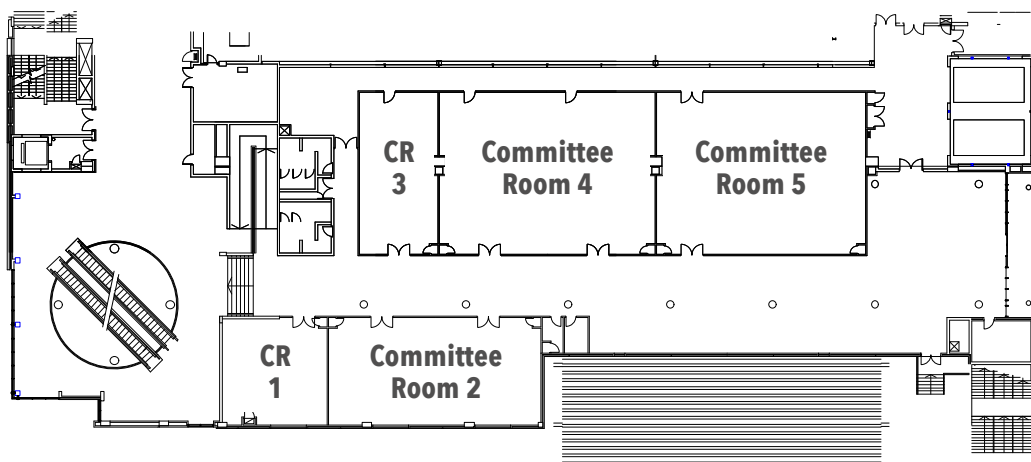
Sandton Convention Centre

Pavilion | Level 5



Sandton Convention Centre

Committee Rooms | Level 4



Exhibitors

Exhibitor (A-Z)	Booth
Chemetrix Export (Pty) Ltd	5
Microsep (Pty) Ltd	3
SETAC	4
University of Stavanger	2
USK Consulting Africa	1

TableTop Displays

BennyZA (Pty) Ltd
LABOTEC (Pty) Ltd
OFT Toxicology (Pty) Ltd

Scientific Program | Explained

Tracks

1. Environmental and Human Toxicology in a Changing World
2. Integrative Approaches: Multi-Stressors, Ecosystem Dynamics and Landscape Impacts
3. Environmental Chemistry, Exposure, Effects and Risk Assessment
4. Policy, Governance, and Communication for Sustainability
5. Environmental Engineering, Remediation, and Restoration
6. Emerging Trends, Analytical Advancements, Transdisciplinary and Trans-Scale Themes
7. Special Session



Scientific Program Updates

The printed program book reflects the status of the program as it was on 12 September, which was the print deadline. For the most up-to-date information, scan the QR code or visit the meeting platform at <https://setac.secure-platform.com/johannesburg2025>.

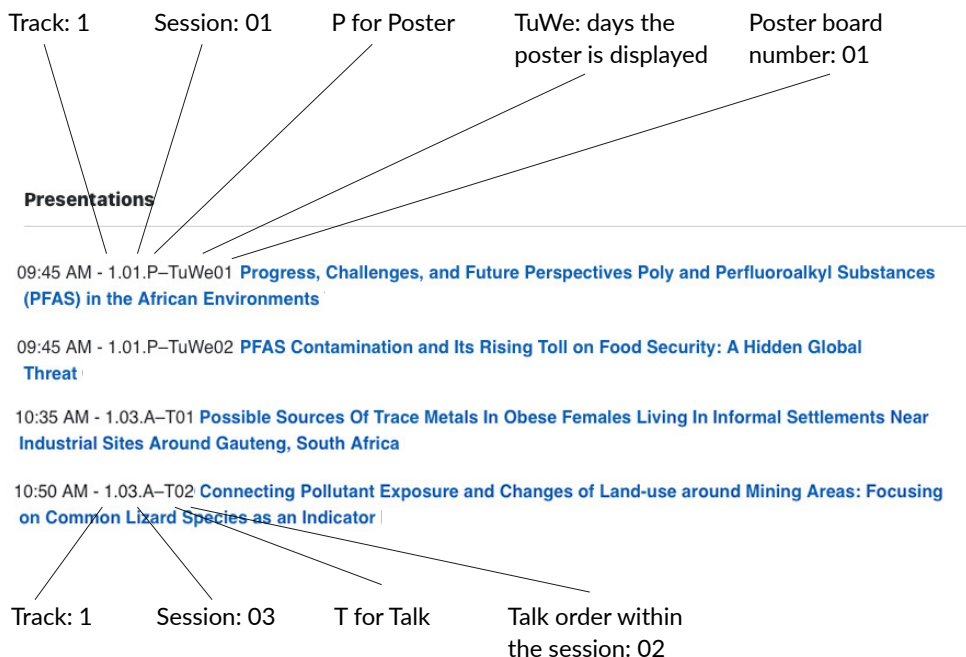


Abstract Book

Download your copy at setac.org/johannesburg.

Program Organization

The scientific program is organized by tracks and sessions. Within each session, there are sub-sessions organized by platform sessions/talks (T) and posters (P).



Every posters will be on display for two days, either Tuesday and Wednesday or Thursday and Friday. Presenters are asked to install posters by 9:00 on the first day and take them down by 17:30 on Wednesday and 13:30 on Friday.

SETAC Global Partners

Thank you to the SETAC Global Partners and Affiliates for helping ensure our goal of Environmental Quality Through Science®. If you are interested in becoming a SETAC Global Partner, please contact setac@setac.org.



29 September | Monday

Time (SAST)	Daily Schedule	Location
Noon–20:00	Registration and Badge Pick-Up	Pavilion Foyer
13:00–17:00	Workshops	Committee Rooms 1, 3
17:00–20:00	Opening Ceremony and Plenary, followed by a Welcome Reception	Pavilion

30 September | Tuesday

Time (SAST)	Daily Schedule	Location
8:00–16:30	Registration and Badge Pick-Up	Pavilion Foyer
8:00–9:00	Poster Set-Up	Exhibition Hall
9:00–9:45	Plenary: Trisia Farrelly	Pavilion
9:45–10:30	Coffee, Exhibits and Posters	Exhibition Hall
10:30–11:50	Platform Sessions	Committee Rooms 2, 4, 5
11:50–13:20	Lunch Seminar: Bayer Safe Use Ambassador Initiative	Committee Room 5
11:50–13:20	Lunch, Exhibits and Posters	Exhibition Hall
13:20–14:40	Platform Sessions	Committee Rooms 2, 4, 5
14:40–15:25	Coffee, Exhibits and Posters	Exhibition Hall
15:25–16:45	Platform Sessions	Committee Rooms 2, 4, 5
17:00–18:00	General Assembly	Committee Room 2
18:00–22:30	Networking (drinks and food not included)	Hard Rock Cafe

Platform Session Listing Format

All platform sessions are held in Committee Rooms 2, 4 and 5 on Level 4 of the Sandton Convention Centre.

- Sessions are split into morning and afternoon blocks
- Within each block, they appear in room order: Committee Room 2 → Room 4 → Room 5

Schedule Pattern

Morning block [10:30]: Room 2 → Room 4 → Room 5

Afternoon block [13:20 and 15:25*]: Room 2 → Room 4 → Room 5

* The 15:25 sessions are on Tuesday and Wednesday only

Tuesday Morning Platforms

2.01 - Ecological and Public Health Risks of Systemic Insecticides Quan Zhang, Chensheng Lu		
Committee Room 2	10:30–10:35	2.01 - Introduction
	10:35–10:50	2.01–T01 - Neonicotinoid Insecticides Induced Mitochondrial DNA Damage: A Validation Study in Earthworms Chensheng Lu
	10:50–11:05	2.01–T02 - Metabolic Profiling and Ecotoxicological Effects of Combined Sublethal Acetamiprid and Epoxiconazole Exposure on Apis mellifera Colonies in Field Conditions Zongqi Hu
	11:05–11:20	2.01–T03 - Effects of thiamethoxam on thyroid axis, muscle exercise capacity, and energy metabolism in Pelophylax nigromaculatus Caihao Mou
	11:20–11:35	2.01–T04 - Efforts Toward the High-Sensitivity Detection of Brain Function Disruption Induced by Insecticides Yoshinori Ikenaka
	11:35–11:50	2.01–T05 - Pollinator safety of Neonicotinoids – Scientific Background of a Controversial Debate Susan Kiambi

3.07.A - Plastics in Aquatic Environments: Occurrence, Effects, and Implications (Macro to Micro) | Sparks Conrad, Jaime Johnson, Susanne Brander

Committee Room 4	10:30–10:35	3.07.A - Introduction
	10:35–10:50	3.07.A–T01 - The Microplastic Profile of Alpine Rivers in the Autonomous Province of Bolzano-South Tyrol, Italy Heinrich Dahms
	10:50–11:05	3.07.A–T02 - Influence of Rocha River Biofilm Development on PET Microplastics' Lead and Zinc Adsorption Capacity Paul d'Abzac
	11:05–11:20	3.07.A–T03 - Atmospheric Microplastics in a Coastal Urban Area of Lima, Peru Irene Pasquel
	11:20–11:35	3.07.A–T04 - The fate of Microplastics as Emerging Contaminants in Daspoort Wastewater Treatment Plant and Their Effect on Bioavailability of Heavy Metals Kholofelo Clifford Malematja
	11:35–11:50	3.07.A–T05 - Independent Scientists Need to Contribute to Capacity Building in order to have an effective Global Plastics Treaty for Africa Conrad Sparks

1.03.A - One Health Approach to Protect Human Health in a Changing Environment | Caradee Wright, Joshua Olowoyo, Cynthia Ramotsehoa, Gladness Lion

Committee Room 5	10:30–10:35	1.03.A - Introduction
	10:35–10:50	1.03.A–T01 - Possible Sources Of Trace Metals In Obese Females Living In Informal Settlements Near Industrial Sites Around Gauteng, South Africa Ntebo Lion
	10:50–11:05	1.03.A–T02 - Connecting Pollutant Exposure and Changes of Land-use around Mining Areas: Focusing on Common Lizard Species as an Indicator Rio Doya
	11:05–11:20	1.03.A–T03 - Climate Change, UV Radiation, and Their Effects on Ecosystems and Society in Low- and Middle-Income Countries Caradee Wright
	11:20–11:35	1.03.A–T04 - Ecological and Human Health Risks of Heavy Metal Exposure in Mining Communities in Ghana Enock Dankyi
	11:35–11:50	1.03.A–T05 - Associations of Organochlorine Pesticides with Epigenetic Aging Biomarkers Ya-Qian Xu

Platforms | Tuesday Afternoon

4.01 - Navigating the Science-Policy-Society Interface for Evidence-Informed Environmental Management | Temitope Sogbanmu, Gabriel Dedeké, Sabine Apitz, Innocentia Sibiyá

Committee Room 2	13:20–13:25	4.01 - Introduction
	13:25–13:40	4.01–T01 - Science-Informed (Regulatory) Decision Making: Translating Science Sabine Apitz
	13:40–13:55	4.01–T02 - Toward Product Safety and Circularity: Understanding the Information Structure of Global Databases on Chemicals in Products and Articles Chijioke Olisah
	13:55–14:10	4.01–T03 - Science-Policy-Society Engagement in Drinking Water Quality Assessment and Co-Creation of Water Security Solutions and Climate Change Adaptation in an Urban Slum in Lagos, Nigeria Temitope Sogbanmu
	14:10–14:25	4.01–T04 - From Air Quality Data to Actions for Clean Air - Method for Engaging School Children to Lower Hindrances for Air Pollution Mitigation Agot Watne
	14:25–14:40	4.01–T05 - Development of Evidence-Informed Pan-Sectoral Air Quality Management Recommendations for Lagos, Nigeria Temitope Sogbanmu

14:40–15:25 - Coffee, Exhibits and Posters

1.04 - The Application of Bioassays for Adverse Outcome Pathways for Water Quality and Safety Assessment | Nonhlanhla Kalebaila, Rialet Pieters, Nthabiseng Matjomane, Caroline Guder

Committee Room 2	15:25–15:30	1.04 - Introduction
	15:30–15:45	1.04–T01 - Tracing Toxicants for Exposure Assessment: the Use of Effect-Directed Analysis for Identification of Chemicals Marja Lamoree
	15:45–16:00	1.04–T02 - A South African Perspective on The Application of Effect-Based Methods (EBM) for Water Quality and Safety Natalie Aneck-Hahn
	16:00–16:15	1.04–T03 - The Application of Biological Assays in Water Quality Monitoring: A South African Case Study Rialet Pieters
	16:15–16:30	1.04–T04 - Clade Matters: Ecotoxicological Comparison Between the European and the North Atlantic Lineages of <i>Eurytemora affinis</i> Quentin Peignot
	16:30–16:45	1.04–T05 - Poster Spotlight featuring 1.04.P–TuWe29, 1.04.P–TuWe30, 1.04.P–TuWe31

3.07.B - Plastics in Aquatic Environments: Occurrence, Effects, and Implications (Macro to Micro) | Sparks Conrad, Jaime Johnson, Susanne Brander

Committee Room 4	13:20–13:25	3.07.B - Introduction
	13:25–13:40	3.07.B–T01 - Microplastic Contamination and Oxidative Stress Responses in Commercial Fish Species: Biomarker Evidence from Lagos Lagoon, Nigeria Gabriel Dedeke
	13:40–13:55	3.07.B–T02 - Environmental Concentrations and Characteristics of Microplastics in Water, Sediment and Mussels Along the Mwanza Gulf Shoreline of Lake Victoria, Tanzania Bahati Mayoma
	13:55–14:10	3.07.B–T03 - Abundance and Characteristics of Microplastics and Litter at an Impact and Non-Impact Site in Table Bay, Cape Town Abel Kabelo Matlala
	14:10–14:25	3.07.B–T04 - Review of best practices for sustainable plastics management in developing economies Mbuyiselwa Moloi
	14:25–14:40	3.07.B–T05 - Recommended approaches to regulating chemicals of concern in the global plastics treaty Susanne Brander

14:40–15:25 - Coffee, Exhibits and Posters

3.07.C - Plastics in Aquatic Environments: Occurrence, Effects, and Implications (Macro to Micro) | Sparks Conrad, Jaime Johnson, Susanne Brander

Committee Room 4	15:25–15:30	3.07.C - Introduction
	15:30–15:45	3.07.C–T01 - Environmental Concentrations, Characteristics and Risk Assessment of Microplastics in the Breede River (Western Cape, South Africa) Catchment, Estuary and Coastal Area Aldean Esau
	15:45–16:00	3.07.C–T02 - Microplastic Contamination in a Closed Marine System: Insights from the Two Oceans Aquarium, Cape Town Whitney Samuels
	16:00–16:15	3.07.C–T03 - Environmental Risk Assessments of Microplastics Around Stormwater Outlets of Cape Town, South Africa Rushdi Ariefdien
	16:15–16:30	3.07.C–T04 - Microplastics and Metals in Coastal Sediment and Mussels of the Western Cape, South Africa Conrad Sparks
	16:30–16:45	3.07.C–T05 - Why independent local and Indigenous science-based evidence and expertise are crucial to ending plastic pollution Trisia Farrelly

Platforms | Tuesday Afternoon

1.03.B - One Health Approach to Protect Human Health in a Changing Environment | Masaoki Kawasumi, Suranie Horn, Ilzé Engelbrecht

Committee Room 5	13:20–13:25	1.03.B - Introduction
	13:25–13:40	1.03.B–T01 - Caffeine as a Chemopreventive Agent Against UV-Induced Skin Carcinogenesis Masaoki Kawasumi
	13:40–13:55	1.03.B–T02 - Data-Driven Calibration of Low-Cost pm2.5 Sensor Measurements in Pretoria Matome Mokganya
	13:55–14:10	1.03.B–T03 - Atmospheric Fine Particulate Matter (PM 2.5), Black Carbon, and Organic Carbon Levels in Oshakati, Namibia Anna Alfeus
	14:10–14:25	1.03.B–T04 - Implications of Exposure to Ultraviolet and Infrared Lights on Brain Biomarkers and Cerebrocerebellar Cortex of Wistar Rats Gabriel Dedeke
	14:25–14:40	1.03.B–T05 - Discussion

14:40–15:25 - Coffee, Exhibits and Posters

6.01 - Chemical Pollution Across the Environment-Food-Human Continuum: Sources, Effects and Solutions | Saada Mohammed, Marja Lamoree

Committee Room 5	15:25–15:30	6.01 - Introduction
	15:30–15:45	6.01–T01 - Investigating the Presence and Levels of Pharmaceuticals in Spinacia oleracea Harvested from Soil Treated with Human Urine Liziwe Mugivhisa
	15:45–16:00	6.01–T02 - Wide-scope Target Screening for Emerging Organic Contaminants in Calçots: Unveiling Chemical Pollution in a Catalan Culinary Icon Lucas Leonel Alonso
	16:00–16:15	6.01–T03 - Chemiresistive Reduced Graphene Oxide–Ion Imprinted Polymer Sensor for Ultra-Trace Cadmium Detection in Water Sifelani Dube
	16:15–16:30	6.01–T04 - Screening Of Human Health Impacts From Exposure To Endocrine Disrupting Substances Peter Fantke
	16:30–16:45	6.01–T05 - Discussion

1.01.P - Innovations in Aquatic Ecotoxicology: From Tradition to Future Thinking | Ayesha

Siddiq, Carine Smith, Cobus van Dyk, Dailing Wu, Daniela Maria Pampanin, Tarryn L Botha, Zeyuan Li, Y Shrike Zhang

1.01.P–TuWe01 - Progress, Challenges, and Future Perspectives Poly and Perfluoroalkyl Substances (PFAS) in the African Environments | **Tlou Chokwe**

1.01.P–TuWe02 - PFAS Contamination and Its Rising Toll on Food Security: A Hidden Global Threat | **Chinemerem Ohoro**

1.01.P–TuWe03 - Passive remediation of acidic and metalliferous mine drainage using an engineered treatment wetland system (ETWS): An effective and sustainable approach for acid mine drainage (AMD) management | **Beauclair Nguegang**

1.01.P–TuWe04 - The Potential Effects of Coal-Fired Power Plant Closure Using a Bayesian Network Method | **Nokuzola Ngamlana**

1.01.P–TuWe05 - Ephemeral Lives and Toxic Legacies: Contaminant-Driven Reproductive Disruption in Rapid-Maturing Killifish? | **Corné Carinus**

1.01.P–TuWe06 - Investigating the Sublethal Toxicity of Imidacloprid in *Daphnia magna* using the Adverse Outcome Pathway Framework | **Marelize Marsay**

1.01.P–TuWe07 - A Multitrophic Approach to Water Quality Assessment in Gauteng Impoundments | **Amanda Thwala**

1.01.P–TuWe08 - The Use of Indigenous Test Species: Metal Sensitivity Differences Between *Daphnia magna* and *Caridina africana*. | **Simoné Heyneke**

1.01.P–TuWe09 - Comparative Effects of Ionic Silver and Nano-silver: Parasite Lethal Toxicity, Host Biomarker and Bioaccumulation Responses | **Lutfiyya Latief**

1.01.P–TuWe10 - The Assessment of *Oreochromis Mossambicus* Muscle Tissue and The Yield Performance of *Solanum Tuberosum* in a Small-Scale Sandponics System | **Refilwe Lukhwarieni**

1.01.P–TuWe11 - Effects of Uranium, Manganese and Cobalt Exposure on Liver Histology of *Cyprinus Carpio* and *Clarias Gariepinus* at Different pH levels | **Ruth Furber**

1.01.P–TuWe12 - Mechanisms behind antidepressant-induced ocular toxicity in zebrafish | **Daniela M. Pampanin**

1.01.P–TuWe13 - Evaluating the effects of herbicide spraying on fish health in the Bronkhorstspuit Dam | **Neo Radebe**

1.01.P–TuWe14 - Active Biomonitoring using *Clarias gariepinus* as an indicator species in Rietvlei Dam Within Rietvlei Nature Reserve | **Saisha Kowlaser**

1.02.P - Marine Ecotoxicology: Anthropogenic Pressures on Changing World, Marine Organisms and Habitats, Current Challenges | Daniela

M. Pampanin, Daniel Schlenk, Magne O. Sydnnes, Pierre Liboureau

1.02.P–TuWe15 - Do Fish in the Western Cape Coastal Areas Accumulate Pharmaceuticals from Agricultural and Urban Sources? A Case Study of Acetaminophen, Sulfamethoxazole, and Triclosan | **Jessie Mzati Amaechi**

1.02.P–TuWe16 - OSPAR mussels biomarkers in caged brown mussels *Perna perna* for monitoring coastal water pollution in Senegal | **Fatou Tabane**

1.02.P–TuWe17 - Polychaetes as Biomonitorers of Metal Contamination in the Ramsar-Designated Berg River Estuary, South Africa: A Site-Specific Approach | **Amanda Buthelezi**

1.02.P–TuWe18 - Risk Assessment and Biological Effects of Pharmaceuticals Discharged via a Wastewater Treatment Plant in the Marine Environment | **Daniela M. Pampanin**

1.02.P–TuWe19 - Bringing Digital Pathology To Environmental Science: Machine Learning-Based Detection Of Tissue Lesions In Fish | **Pierre Liboureau**

1.02.P–TuWe20 - Distinct patterns of metal accumulation in deep-sea grenadiers *Coryphaenoides armatus* and *C. yakuinae* from the Clarion-Clipperton Zone: Baseline data to inform deep-sea mining impact assessment | **Dominique Anderson**

Posters | Tuesday and Wednesday

1.03.P - One Health Approach to Protect Human Health in a Changing Environment | Joshua

Olowoyo, Gladness Lion, Suranie Horn, Ilzé Engelbrecht, Masaaki Kawasumi, Caradee Wright, Cynthia Ramotsehoa

1.03.P–TuWe21 - Health risks of atmospheric fine particulate matter (PM_{2.5}) and its trace elements in Mabopane, South Africa | **Mandla Bhuda**

1.03.P–TuWe22 - Multiple Biological Effects in Albino Mice, *Mus musculus* and Public Health Risks of Occupational Exposure to Volatile Organic Compounds (VOCs) Emissions in a Printing Press | **Temitope Sogbanmu**

1.03.P–TuWe23 - Assessment of trace metals in *Amaranthus spinosus* harvested from mine-polluted soils treated with selected farmyard manures | **Oluwaseun Mary Oladeji**

1.03.P–TuWe24 - Assessment of heavy metals contents in chicken organs purchased locally from a store, South Africa | **Oluwaseun Mary Oladeji**

1.03.P–TuWe25 - Assessing the Occurrence and the Environmental Risk of a COVID-19 drug, Dexamethasone, in the Orange-Senqu River Basin | **Lerato Tsilo**

1.03.P–TuWe26 - In Vitro Toxicity Assessment of the Potential Occupational Health Risks Caused by Ceramic Resins Used in Additive Manufacturing | **Ilzé Engelbrecht**

1.04.P - The Application of Bioassays for Adverse Outcome Pathways for Water Quality and Safety Assessment | Nonhlanhla Kalebaila, Rialet Pieters, Nthabiseng Matjomane, Caroline Guder

1.04.P–TuWe29 - In-vitro Assessment of Endogenic, Androgenic, Dioxin-like, Photosystem II inhibition and Genotoxic Potency in the Vall Harts Irrigation Scheme, South Africa | **Ngitheni Nyoka**

1.04.P–TuWe30 - Biological effects of chemicals in the sediment of South African ports | **Caroline Guder**

1.04.P–TuWe31 - Application of Adverse Outcome Pathways as a Risk Assessment Tool of Metal-Based Nanomaterials | **Victor Wepener**

1.04.P–TuWe32 - Can The Geotaxis Behaviour Of Mosquito Larvae (*Culicidae*) Be A Reliable Predictor Of Water Quality? | **Nkabeleng Lechesa**

1.04.P–TuWe33 - Adverse Outcome Pathways in Sediment Toxicity Testing: A Case Study for the Biocide DCOIT | **Lucas Buruaem Moreira**

2.01.P - Ecological and Public Health Risks of Systemic Insecticides | Quan Zhang, Chensheng Lu, University of Washington

2.01.P–TuWe34 - Simultaneous Exposure to Avermectin Enhances the Toxicity of R-dinotefuran and Reduces the Toxicity of S-dinotefuran | **Quan Zhang**

2.01.P–TuWe35 - Neonicotinoid Residues in Free-grazing Ducks and Their Eggs Associated Human Health Risk | **Kraisiri Khidkhan**

2.01.P–TuWe36 - Investigating the Developmental Neurotoxicity of Insecticide Combinations in LUHMS Cell Line | **Natamon Jianpraphat**

2.01.P–TuWe37 - Elucidating the Cause of a Mass Mortality Event in Japanese Squirrels –Assessment of Insecticide Residues and Synergistic Neurotoxicity~ | **Miku Goto**

2.01.P–TuWe38 - Biomarker Search for Neurotoxicity Assessment Following Acute Exposure to Neonicotinoid by Using Liquid Chromatography Quadrupole Time-of-Flight Mass Spectrometry | **Tomoya Koike**

2.01.P–TuWe39 - Chemicals of Concern in Aquatic Macro-invertebrates from a Subtropical River System Impacted by Intensive Agricultural Activities | **Hannes Erasmus**

3.01.P - Contaminants in Urban Environments | Matt Dodd, Godfred Darko

3.01.P–TuWe40 - Evaluation of the Effects of Street Trees on Heavy Metal Concentrations and Mobility in Soils and Sediments Along Shaded and Unshaded Streets | **Veronica Ngole-Jeme**

3.01.P–TuWe41 - What are the potentially toxic elements lurking in your garden? A citizen science approach to identifying potentially toxic metal contamination risks in urban gardens | **Matt Dodd**

3.01.P–TuWe42 - Biochar Amendment in Remediation of Heavy Metals in Paddy Soil: A Case Study in Nobewam, Ghana | **Matt Dodd**

3.01.P–TuWe43 - Bioaccessibility and Risk Assessment of Toxic Metals in Soils and Cocoa Beans: Human Health Implications | **Matt Dodd**

3.01.P–TuWe44 - Speciation, contamination, and risk assessment of potentially toxic elements in soils from mining and non-mining areas in Ghana | **Matt Dodd**

3.01.P–TuWe45 - Radiological Health Risks of Natural Radionuclides in Classroom Dust: A Study in Ghana's Ashanti Region | **Matt Dodd**

3.01.P–TuWe46 - Ecological and Human Health Risk of Potentially Toxic Elements and Naturally Occurring Radioactive Elements in Food Crops from Soils in Mampong, Ghana | **Matt Dodd**

3.01.P–TuWe47 - Human And Ecological Risk Assessment Of Potentially Toxic Elements In Soils From Artisanal And Small-Scale Gold Mining Area | **Matt Dodd**

3.01.P–TuWe48 - Exposure and Risk of Toxic Elements through Medicinal Hydrophytes | **Matt Dodd**

3.01.P–TuWe49 - Mercury and Heavy Metal Pollution of the Birim River, Ghana | **Matt Dodd**

3.01.P–TuWe50 - Source Apportionment and Human Health Risk Assessment of Potentially Toxic Elements in Soils Impacted by Artisanal Small-Scale Mining. | **Matt Dodd**

3.01.P–TuWe51 - Temporal Variations of Lead Concentrations in Soil Along a Major Highway in Cape Town, South Africa | **James Odendaal**

3.01.P–TuWe52 - Ecological Risk Assessment of Water Contaminants in an Urban River Basin in Ghana | **Emmanuel Anshah**

3.01.P–TuWe53 - Wastewater and Environmental Surveillance for Biological Contaminants in the Soet River Catchment: Case Study of Nomzamo in Cape Town | **Yonela Mkunanya**

3.01.P–TuWe54 - An Aquaponics System to Provide Perchlorate-free Vegetables and Proteins to Rural Communities | **Francois Bothma**

3.04.P - Integrative Framing for Environmental Assessment: Ecosystem Services, Sustainability, Lifecycle Assessment and Other Tools for Science-Informed Decision Making | Isah Mohammed, Sabine E Apitz

3.04.P–TuWe55 - Integration of Ocean Modelling in 3-Dimensional Volumetric Classification Models to Define the Pelagic Ecosystems in the KwaZulu-Natal Bight, South Africa | **Mathabo Malange**

3.07.P - Plastics in Aquatic Environments: Occurrence, Effects, and Implications (Macro to Micro) | Sparks Conrad, Jaime Johnson, Susanne Brander

3.07.P–TuWe57 - Effects of plastics-related chemicals on the aquatic environment: Tetrabromobisphenol A (TBBPA) as a pollutant of concern | **Mbuyiselwa Moloi**

3.07.P–TuWe58 - Microplastic Shapes and Fish Health: Understanding the Link for Effective Environmental Policies | **Reshma Sinha**

3.07.P–TuWe59 - Harnessing Citizen Science for Microplastic Monitoring in the Coastal Waters of the Western Cape | **Jaime Johnson**

3.07.P–TuWe60 - Degradation and Ecotoxicological Effects of Poly(lactic acid) (PLA) / Polyhydroxy-butyrate-co-hydroxyvalerate (PHBV) Blends on the Behavioural and Gravitactic Responses of Culicids | **Nomasonto Portia Dlamini**

3.07.P–TuWe61 - Microplastics as Emerging Contaminants in Urban Rivers: Assessment and Characterization in the Msimbazi River, Tanzania | **Marystella Samki**

3.07.P–TuWe62 - Contextualizing microplastic pollution in different river habitats through rapid habitat analysis | **Richard Greenfield**

3.07.P–TuWe63 - Risk of Microplastics in South African Freshwater: Case Study | **Wesley Komane**

3.07.P–TuWe64 - Addressing the Insufficiency of Marine Outfall Regulations in Mitigating Microplastic and AMR Pollution from Wastewater Treatment | **Raeesa Bhikhoo**

Posters | Tuesday and Wednesday

3.07.P–TuWe65 - Toward Standardized Microplastic Uptake Assessments in Bivalves: Experimental Trials in Exposure System Design and Particle Quantification | **Venecia van Balla**

3.07.P–TuWe66 - Abundance and Characteristics of Anthropogenic Litter Along the Tanzanian Shores of the African Great Lakes: Volunteer Involvement, Outreach and Stakeholder Engagement | **Bahati Mayoma**

3.07.P–TuWe67 - Microplastic Bioaccumulation in Polychaetes from the Ramsar-Designated Berg River Estuary, South Africa | **Reinette Snyman**

3.07.P–TuWe68 - The Effect Of Microplastics On The Enzymatic Treatment Of Seaweed | **Sizakele Ntuli**

3.07.P–TuWe69 - Microplastics in economic fisheries from major fish landing sites in Lagos, Nigeria | **Temitope Sogbanmu**

3.07.P–TuWe70 - Microplastics in the Sediments of Rivers from Sites in Southern KwaZulu-Natal, South Africa | **Jessica-Ann Arnold**

3.07.P–TuWe71 - Microplastic Exposure Induces Hepatotoxicity Through Oxidative Stress: An Investigation Into the Molecular Mechanism | **Paolo Bristow**

3.07.P–TuWe72 - Toxicity Identification Evaluation of Leachate from Selected Bioplastic Straws Using A Marine Copepod Species | **Hiroshi Yamamoto**

3.07.P–TuWe73 - Filaments in the Flow: Assessing Microplastic Distribution and Drivers in Gauteng's Wetland Pans | **Keshne Chetty**

3.07.P–TuWe74 - 3D Printed Microplastic Particles as Potential Metal Vectors in the Freshwater Environment | **Katherine Holt**

3.07.P–TuWe75 - Urban activities and wastewater effluents contribute to microplastic and metal load in the bottom sediment of the Apies River, South Africa | **Jeffrey Lebepe**

3.08.P - Pollutants Without Borders: Tracking Environmental Pathways, Assessing Risks and Advancing Solutions | Faith Kandie, Enock Dankyi

3.08.P–TuWe76 - Occurrence and Risk Assessment of Steroid Hormones: A Case Study of Selected Rivers in Western Kenya | **Faith Kandie**

3.08.P–TuWe77 - Ameliorative Effects of Piroxicam on Anthracene-Induced Lung Damage in Female *Rattus Norvegicus* | **Saganuwan Alhaji Saganuwan**

3.10.P - Soil Ecotoxicology – Impact, Ecotoxicity Tests, Monitoring and Risk Assessment | Mark Maboeta, Oluwatosin Oladipo

3.10.P–TuWe79 - Temperature and Moisture Modulate Aflatoxin's Ecotoxicological Impact on Soil Health: Insights from Earthworm Studies | **Tanya Fouché**

3.10.P–TuWe80 - Ecotoxicological Insights for Sustainable Agriculture on the Moon and Mars | **Vickey-Luanne Harris**

3.10.P–TuWe81 - Sulfamethoxazole-Trimethoprim: impact on plant microbiome and resistomes | **Caryn Kgokonyane Lenonyane**

3.10.P–TuWe82 - Effects of Different Climatic Conditions on the Ecotoxicity of Soils from Waste Disposal Sites | **Hussain Kaka**

4.01.P - Navigating the Science-Policy-Society Interface for Evidence-Informed Environmental Management | Temitope Sogbanmu, Gabriel Dedeke, Sabine Apitz, Innocentia Sibiya

4.01.P–TuWe83 - Are Equity and Fairness Quantifiable? Adapting Criteria Scoring to Support Decision-Making | **Sabine Apitz**

4.01.P–TuWe84 - Working the Interface of Science and Regulatory Policy: The Critical Importance of Research Centers to Regulatory Science | **Kevin Armbrust**

Tuesday and Wednesday | Posters

6.01.P - Chemical Pollution Across the Environment-Food-Human Continuum: Sources, Effects and Solutions | Saada Mohammed, Marja Lamoree

6.01.P-TuWe85 - Design A 3D-Printed Flow Device For Selective Droplet-Based Liquid-Liquid Extraction Of Saturated And Aromatics: Potential Application For The Quality Control Of Mineral Oil Contamination In Food | **Busie Mokoena**

6.01.P-TuWe86 - Development of Three-Dimensional Printed Silver Polymer Nanocomposite-Based Sorbents for the Extraction of Aromatic Hydrocarbons from Food and Environmental Samples | **Nivonile Angelina Machine**

6.01.P–TuWe87 - Evaluation of the Rate of Uptake and Depuration of a short chain PFAS, Perfluorohexanoic Acid (PFHxA), in Eastern Oysters (*Crassostrea virginica*) | **Jessica Donaldson**

6.01.P–TuWe88 - Seasonal Dynamics and Environmental Risks of Glyphosate Contamination in Thathe Vondo Forest Plantation, Limpopo, South Africa | **Babatunde Ojelade**

Wednesday | 1 October

Time (SAST)	Daily Schedule	Location
8:00–16:30	Registration and Badge Pick-Up	Pavilion Foyer
8:00–9:00	Poster Set-Up	Exhibition Hall
9:00–9:45	Plenary: Kenneth M. Y. Leung	Pavilion
9:45–10:30	Coffee, Exhibits and Posters	Exhibition Hall
10:30–11:50	Platform Sessions	Committee Rooms 2, 4, 5
11:50–13:20	Lunch, Exhibits and Posters	Exhibition Hall
13:20–14:40	Platform Sessions	Committee Rooms 2, 4, 5
14:40–15:25	Coffee, Exhibits and Posters	Exhibition Hall
15:25–16:45	Platform Sessions	Committee Rooms 2, 4, 5
18:00–20:30	Conference Dinner	Eclipse Restaurant

Wednesday Morning Platforms

7.01 - What Priority Topics for Concern Should Be Considered by the Intergovernmental Science-Policy Panel on Chemicals, Waste and Pollution | Organizing Committee of the SETAC Advisory Panel on Chemicals Management (CheM Panel)

Committee Room 2	10:30–10:35	7.01 - Introduction
	10:35–10:45	7.01–T01 - Background and Update
	10:45–10:50	7.01–T02 - Thoughts on What Academia Can Contribute
	10:50–10:55	7.01–T03 - Thoughts on What Business Can Contribute
	10:55–11:00	7.01–T04 - Thoughts on What Professional Societies Can Contribute
	11:00–11:15	7.01–T05 - Results from the CheM Panel's Global Consultation on Chemicals Management
	11:15–11:50	7.01–T06 - Moderated Panel Discussion

3.08 - Pollutants Without Borders: Tracking Environmental Pathways, Assessing Risks and Advancing Solutions | Faith Kandie, Enock Dankyi

Committee Room 4	10:30–10:35	3.08 - Introduction
	10:35–10:50	3.08–T01 - Dissipation and Degradation of Benzobicyclon Herbicide (BUTTE®) and its Degradation Product in Rice Fields Kevin Armbrust
	10:50–11:05	3.08–T02 - Identification of Dufulin Photolysis and Hydrolysis Products in Water and Soil Using a ¹³ C Stable Isotope Assisted HPLC-HRMS Strategy Xingang Liu
	11:05–11:20	3.08–T03 - The Good, the Bad, and the Murky: Metal and Organochlorine Pesticide Bioaccumulation in Invertebrates and Fish from Ephemeral Pans in Southern Mozambique Tamara Venter
	11:20–11:35	3.08–T04 - Using risk assessments for birds to identify potentially high-risk agrochemicals and their potential role in decision-making Lorinda Hart
	11:35–11:50	3.08–T05 - Toxic Chemical Mixtures outside of the Safe Operating Space on a Global Scale Werner Brack

1.02 - Marine Ecotoxicology: Anthropogenic Pressures on Changing World, Marine Organisms and Habitats, Current Challenges | Daniela M. Pampanin, Daniel Schlenk, Magne O. Sydnes, Pierre Liboureau

Committee Room 5	10:30–10:35	1.02 - Introduction
	10:35–10:50	1.02–T01 - Insights Into The Stress Response Of The Red Seaweed <i>Palmaria palmata</i> Under Anthropogenic Pressure Pierre Liboureau
	10:50–11:05	1.02–T02 - Oil spill dispersant toxicity assessment for environmental regulation and monitoring in Senegal Fatou Tabane
	11:05–11:20	1.02–T03 - Pharmaceutical pollution alters river-to-sea migration success in Atlantic salmon (<i>Salmo salar</i>) Michael Bertram
	11:20–11:35	1.02–T04 - Seawater Is Not Freshwater: Considerations for Conducting Chemical Exposures in Marine Ecosystems and Marine Ecological Risk Assessment Kevin Armbrust
	11:35–11:50	1.02–T05 - Poster Spotlight featuring 1.02.P–TuWe15 and Discussion

Platforms | Wednesday Afternoon

3.04 – Integrative Framing for Environmental Assessment: Ecosystem Services, Sustainability, Lifecycle Assessment and Other Tools for Science-Informed Decision Making | Isah Mohammed, Sabine E Apitz

Committee Room 2	13:20–13:25	3.04 - Introduction
	13:25–13:40	3.04–T01 - The ES Paradigm as a Bridge Between Science and Decisions Sabine Apitz
	13:40–13:55	3.04–T02 - Relative risk assessment incorporating Bayesian Network probability models to integrate multiple stressors management in regional, transboundary water resource management in southern Africa Gordon O'Brien
	13:55–14:10	3.04–T03 - Utility, significance and caveats for the use of bioaccumulation in GHS classification of substances and their mixtures Wells Utembe
	14:10–14:25	3.04–T04 - Enhancing Environmental Decision-Making: Developing Weighting Factors for African Life Cycle Assessments Mohammed Isah
	14:25–14:40	3.04–T05 - Panel Discussion

14:40–15:25 – Coffee, Exhibits and Posters

3.05 - Understanding and Managing Environmental Pollutants in Developing Regions: Practical Tools, Risk Assessment, and Community-Driven Solutions | Innocentia Sibiya, Mbuyiselwa Moloi, Zainab Jamidu Katima

Committee Room 2	15:25–15:30	3.05 - Welcome and Session Introduction
	15:30–15:45	3.05–T01 - Unveiling the Presence of Polybrominated Diphenyl Ethers in Firefighter Protective Clothing Vincent Mokoana
	15:45–16:00	3.05–T02 - Evaluation of Ascorbic Acid as an Intervention of Metal Toxicity in Dogs in Kabwe District Nelly Banda
	16:00–16:15	3.05–T03 - An assessment of two selected veterinary antibiotics commonly found in veterinary waste and their toxicity on the freshwater snail <i>Helisoma duryi</i> Joanna Change
	16:15–16:35	3.05–T04 - Panel Discussion
	16:35–16:45	3.05–T05 - Panel Reflection and Audience Q&A

1.01.A - Innovations in Aquatic Ecotoxicology: From Tradition to Future Thinking | Ayesha Siddiqua, Carine Smith, Cobus van Dyk, Dailing Wu

Committee Room 4	13:20–13:25	1.01.A - Introduction
	13:25–13:40	1.01.A–T01 - Integrated monitoring and toxicological assessment of PFAS in aquatic ecosystems: Human exposure risks in UK and Spanish populations and insights from cellular bioenergetic profiling Eva Junque
	13:40–13:55	1.01.A–T02 - Multi-Generational Reproductive Effects of PFOS on Daphnia pulex Ayesha Siddiqua
	13:55–14:10	1.01.A–T03 - The Effects of Single Antibiotics and Their Mixtures on Freshwater Ecosystems Dailing Wu
	14:10–14:25	1.01.A–T04 - Transcriptomic Response of Zebrafish (Danio rerio) and Eastern Oysters (Crassostrea virginica) following exposure to the short chain PFAS, Perfluorohexanoic Acid (PFHxA) Jessica Donaldson
	14:25–14:40	1.01.A–T05 - A Web-Based Histology Atlas for the Freshwater Sentinel Species Daphnia magna Khai Ang

14:40–15:25 - Coffee, Exhibits and Posters

1.01.B - Innovations in Aquatic Ecotoxicology: From Tradition to Future Thinking | Daniela Maria Pampalin, Tarryn L Botha, Y Shrike Zhang, Zeyuan Li

Committee Room 4	15:25–15:30	1.01.B - Introduction
	15:30–15:45	1.01.B–T01 - Distinct Toxicological Profiles of Pesticide Metabolites Compared to Parent Compounds: Evidence from a Zebrafish Model Luthando Tiya
	15:45–16:00	1.01.B–T02 - Hydroethanolic extract of Bhoophone Disticha affect behavior and monoamine metabolites expression in a sex specific manner in Zebrafish Nkosi Xhakaza
	16:00–16:15	1.01.B–T03 - Pharmaceutical metabolite toxicity risk demonstrated in larval zebrafish: a proteomics approach with a twist Carine Smith
	16:15–16:30	1.01.B–T04 - Integrated In Vivo and In Silico Assessment of Chronic and Developmental Toxicity of Isoxaflutole and Cyprosulfamide Mixtures in Zebrafish Oluwabunmi Femi-Oloye
	16:30–16:45	1.01.B–T05 - High-Content Modeling of Human Tissues and Diseases in vitro Y. Shrike Zhang

Platforms | Wednesday Afternoon

3.01 - Contaminants in Urban Environments | Matt Dodd, Godfred Darko

Committee Room 5	13:20–13:25	3.01 - Introduction
	13:25–13:40	3.01–T01 - Incorporating Contaminants in the Urban Air Pollutant Mixture under SWAPIT (Study of Winter Air Pollution in Toronto) Elisabeth Galarneau
	13:40–13:55	3.01–T02 - Pharmaceutical Contamination in Urban Environments: Evidence from a Multimatrix Assessment of Landfill, Hospital, and Wastewater Treatment Plants in Ghana Enock Dankyi
	13:55–14:10	3.01–T03 - Forensic Identification and quantification of pesticides in Alleged Animal Poisoning Incidents in Japan Yared B. Yohannes
	14:10–14:25	3.01–T04 - Pharmaceuticals in the Coastal Waters of eThekweni: Prevalence and Potential Risks Anisha Velayudan
	14:25–14:40	3.01–T05 - Poster Spotlight featuring 3.01.P–TuWe52, 3.01.P–TuWe40

14:40–15:25 - Coffee, Exhibits and Posters

3.10 - Soil Ecotoxicology – Impact, Ecotoxicity Tests, Monitoring and Risk Assessment | Mark Maboeta, Oluwatosin Oladipo

Committee Room 5	15:25–15:30	3.10 - Introduction
	15:30–15:45	3.10–T01 - Environmental Risk Assessment for Low-Concern Active Substances Gertie Arts
	15:45–16:00	3.10–T02 - Assessing Pesticide Residues in Agricultural Soils: Implications for Soil Health and Sustainability Saada Mohammed
	16:00–16:15	3.10–T03 - Geotaxis as an endpoint in behavioural ecotoxicology: current testing limitations and perspectives Patrick Otomo
	16:15–16:30	3.10–T04 - Temperature-Dependent Efficacy and Ecotoxicity of Tween 80 for Remediation of Petroleum-Contaminated Podzolic Soils Oleg Sutormin
	16:30–16:45	3.1–T05 - Poster Spotlight featuring 3.10.P–TuWe79 & 3.10.P–TuWe80

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Thursday

Time (SAST)	Daily Schedule	Location
8:00–16:30	Registration and Badge Pick-Up	Pavilion Foyer
8:00–9:00	Poster Set-Up	Exhibition Hall
9:00–9:45	Plenary: William Tarpeh	Pavilion
9:45–10:30	Coffee, Exhibits and Posters	Exhibition Hall
10:30–11:50	Platform Sessions	Committee Rooms 2, 4, 5
11:50–13:20	Lunch, Exhibits and Posters	Exhibition Hall
13:20–14:40	Platform Sessions	Committee Rooms 2, 4, 5
14:40–15:25	Coffee, Exhibits and Posters	Exhibition Hall
15:25–16:45	Women in SETAC as Drivers of Global Sustainability in Environmental Science, Policy, and Practice	Committee Room 4
15:25–16:45	Exploring Careers in Industry – Opportunities Beyond Academia	Committee Room 5

Thursday Morning Platforms

3.09 - Nanomaterials and Advanced 2D Materials: Innovations, Transformations, and Ecotoxicological Implications Mary Gulumian, Victor Wepener, Mona Connolly		
Committee Room 2	10:30–10:35	3.09 - Introduction
	10:35–10:50	3.09–T01 - Transformed Nanoparticles, Altered Outcomes: CuO and ZnO Toxicity in Model Species Mikołaj Feculak
	10:50–11:05	3.09–T02 - How Engineered Nanoparticle Transformations Redefine Their Interactions with Plants Izabela Joško
	11:05–11:20	3.09–T03 - Two-dimensional Nanomaterials Affect the Pollen–Stigma System in Three Wind-Pollinated Seed Plants Nida Zaib
	11:20–11:35	3.09–T04 - 2D Hexagonal Boron Nitride (h-BN) and 1D Boron Nitride Nanotubes (BNNT); Distinct Effects at the cellular level of these Structural Analogues to Graphene and Carbon Nanotubes Mona Connolly
	11:35–11:50	3.09–T05 - Evaluating the Toxicological Impacts of Carbon Nanomaterial-Polyethersulfone Composite Membranes in Water Treatment Applications Bveledzani Pertunia Makhado

3.02.A - Emerging Contaminants in Water: Current Trends and Innovations in Developing Countries | Olatunde Olaturunji, Faith Kandie, Beatrice Opeolu, Memory Tekere

Committee Room 4	10:30–10:35	3.02.A - Introduction
	10:35–10:50	3.02.A-T01 - One Health and Contaminants of Emerging Concern in Africa: Cyanotoxins and Pharmaceuticals in Surface Waters of Cameroon Ronald Vougat Ngom
	10:50–11:05	3.02.A-T02 - Pharmaceutical Residues in Surface Water Bodies from Upper Orange- Sengu River Basin: Occurrence Within Two Seasons Using Liquid Chromatography Coupled With Mass Spectrometric Technique Gladys Belle Brenda Moodley
	11:05–11:20	3.02.A-T03 - Evaluating the ecotoxicological effects of pharmaceutical and personal care product pollutants on aquatic ecosystems in Bulawayo, Zimbabwe Norah Basopo
	11:20–11:35	3.02.A-T04 - TBD
	11:35–11:50	3.02.A-T05 - Discussion

5.01.A - Innovative Approaches for Sustainable Management, Remediation and Restoration of Environmental Matrices | Chioma Bertha Ehis-Eriakha, Chidinma Okafor, Randal Albertus, Chioma Blaise Chikere

Committee Room 5	10:30–10:35	5.01.A - Introduction
	10:35–10:50	5.01.A-T01 - Lead Resistant Bacteria and PGPR for ecorestoration of polluted Soil: Genetic and Functional Analysis Chioma Bertha Ehis-Eriakha
	10:50–11:05	5.01.A-T02 - Bacterial Community Response to Different Nutrient Supplements During Bioremediation of Total Petroleum Hydrocarbon Chioma Blaise Chikere
	11:05–11:20	5.01.A-T03 - TBD
	11:20–11:35	5.01.A-T04 - TBD
	11:35–11:50	5.01.A-T05 - Discussion

Platforms | Thursday Afternoon

1.05 - The Triple Planetary Crisis: Climate Change, Biodiversity Loss, Pollution | Lorraine Maltby, Refilwe Chilo

Committee Room 2	13:20–13:25	1.05 - Introduction
	13:25–13:40	1.05–T01 - A 'Blueprint' Assessment Workflow for Linking Impacts from Chemical Pollution to Biodiversity Loss Peter Fantke
	13:40–13:55	1.05–T02 - Climate Warming Shifts Communities to be More Sensitive to Chemical Pollutants Lorraine Maltby
	13:55–14:10	1.05–T03 - South African PESEIS approach to the management of multiple stressors affecting vulnerable water resources on multiple spatial scales Gordon O'Brien
	14:10–14:25	1.05–T04 - Water Beetles as Indicators of Climate Change Vulnerability in Freshwater Ecosystems Refilwe Chilo
	14:25–14:40	1.05–T05 - Climate Change: Friend or Foe, the Tarebia granifera Story Marcel Kruger

3.02.B - Emerging Contaminants in Water: Current Trends and Innovations in Developing Countries | Olatunde Olatunji, Faith Kandie, Beatrice Opeolu, Memory Tekere

Committee Room 4	13:20–13:25	3.02.B - Introduction
	13:25–13:40	3.02.B–T01 - Assessment of Ecotoxicological Effects of Polycyclic Aromatic Hydrocarbons in Sediments and Water from Klip River, Johannesburg, South Africa Samuel Makobe
	13:40–13:55	3.02.B–T02 - Use of insecticide treated bed nets for fishing in sub-Saharan Africa may cause toxicity to fish and invertebrates in aquatic ecosystems Joseph Bisesi
	13:55–14:10	3.02.B–T03 - The Use of Yeast Bioassays to Determine the Potential Risk of Azithromycin, a COVID-19 Drug, on the Aquatic Ecosystem and Human Health in the Orange-Senqu River Basin Thuto Ramosoeu
	14:10–14:25	3.02.B–T04 - Photodynamic activity of novel porphyrin conjugates against bacteria in water Muthumuni Managa
	14:25–14:40	3.02.B - Discussion

Thursday Afternoon | Platforms

5.01.B - Innovative Approaches for Sustainable Management, Remediation and Restoration of Environmental Matrices | Chioma Bertha Ehis-Eriakha, Chidinma Okafor, Randal Albertus, Chioma Blaise Chikere

Committee Room 5	13:20–13:25	5.01.B - Introduction
	13:25–13:40	5.01.B–T01 - Biodegradation Studies from Lab to Field: Reality Bites Sabine Apitz
	13:40–13:55	5.01.B–T02 - Visible light photocatalytic degradation of pesticides and antibiotics by H3PO4-activated biochar combined with g-C3N4: Effects, mechanism, degradation pathway, and toxicity assessment Liangang Mao
	13:55–14:10	5.01.B–T03 - Grafting and Application of Maize Tassel Derived Adsorbent for the Removal of short chain chlorinated paraffin and polychlorinated naphthalene from Aqueous Solution Benjamin Shotholo
	14:10–14:25	5.01.B–T04 - Mycofilters and the Effectiveness of Mycofiltration in the Removal of Contaminants in Water – A Systematic Review Sanele Mnkandla
	14:25–14:40	5.01.B–T05 - Valorization of Tigernut Agro-Waste for Sustainable Bioethanol Production: A Green Remediation Approach Using Microbial Fermentation Irene Ohanusu

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Posters | Thursday and Friday

1.05.P - The Triple Planetary Crisis: Climate Change, Biodiversity Loss, Pollution | Lorraine Maltby, Refilwe Chilo

1.05.P–ThFr01 - Scoping Review of Multipollutant Data Analysis and Visualization Methods for Chemical Mixture Risk Assessment | **Elisabeth Galarneau**

1.05.P–ThFr02 - Awareness, Understanding and Practices of Household Waste Recycling: A Comparative Study of Low-and-High-Income Communities in the North of Pretoria, South Africa | **Senzeni Nyathi**

1.06.P - Wildlife Ecotoxicology: Integrating Bottom-Up and Top-Down Effects of Stressors in a Changing World | Victor Wepener, Yoshinori Ikenaka, Frances Orton, Lavanya Vythalingam, Michael Bertram

1.06.P–ThFr03 - Hidden Contaminants: Understanding the Impacts Lead (Pb) Contamination on Wildlife, the Environment, and Human Health in Namibia under the One Health Concept | **Ilana Rautenbach**

1.06.P–ThFr04 - The Utility of Freshwater Molluscs as Biomonitoring Organisms to Assess Pollution Pressure on Wetland Ecosystems | **Doyinsola Mustapha**

1.06.P–ThFr05 - Species-Specific Variation in δ -ALAD Activity as an Indicator of Lead Sensitivity in Birds | **Mizuki Maruyama**

1.06.P–ThFr06 - Investigating the Detoxification Capacity in Elephants with a Focus on Enzymes Involved in Alcohol and Organophosphate Metabolism | **Ayuko Morita**

1.06.P–ThFr07 - Organochlorine Pesticide Exposure in Carnivores from the Kruger National Park, South Africa | **Victor Wepener**

3.02.P - Emerging Contaminants in Water: Current Trends and Innovations in Developing Countries | Olatunde Olatunji, Faith Kandie, Beatrice Opeolu, Memory Tekere

3.02.P–ThFr09 - Relationship between Physicochemical Parameters and Heterotrophic Bacteria in Drinking Water Treatment Plant in Four Seasons Unveiled through Correlation Analysis | **Chimdi Mang Kalu**

3.02.P–ThFr10 - Development of a GC-MS Method for the Determination of Selected Polycyclic Aromatic Hydrocarbons in Environmental Samples | **Emihle Nompu**

3.02.P–ThFr11 - Quantification of textile dyes in KZN surface waters using HPLC, and their environmental toxicological effects [Review] | **Sandisiwe Bala**

3.02.P–ThFr12 - Assessing PFAS Contamination in River Water and its Diverted Use for Irrigation in Agricultural Farms of India | **Snigdha**

3.02.P–ThFr13 - Extraction and chromatographic determination of diazepam, alprazolam and clonazepam in wastewater samples | **Vernon Somerset**

3.02.P–ThFr14 - Occurrence and Health Implications of Potentially Toxic Elements in Drinking Water in Africa: A Scoping Review Protocol | **Nomfundo Mahlangeni**

3.02.P–ThFr15 - The detection and isolation of Klebsiella species in wastewater treatment plants and downstream monitoring borehole | **Kelebogile Phatlhaphatlha**

3.03.P - Fate and Effects of Metals in the Environment: Ecological and Human Health Implications | Hannes Erasmus, Victor Wepener

3.03.P–ThFr16 - Metal Pollution in Cape Town's Urban Rivers: Spotlight on the Salt River Catchment | **Zikhona Menze**

3.03.P–ThFr17 - Prolonged Effects of Flooding on Groundwater Quality in the Lower Volta River, Ghana | **Heiko Schoenfuss**

3.03.P–ThFr18 - Exposure and Effects of Mercury to the Freshwater Clam Corbicula | **Hannes Erasmus**

3.03.P–ThFr19 - Effects of Sludge Addition on the Partitioning and Mobility of Heavy Metals in Heat Affected Soil | **Veronica Ngole-Jeme**

3.03.P–ThFr20 - Tracking trace metal and nutrient pollution and their sources in surface water and sediments: A case study of selected rivers and streams in Johannesburg | **Alulutho Mampozo**

3.03.P–ThFr21 - The Application of Artificial, Transplanted and Resident Mussels in a Complimentary Approach to Monitor Metalloids and Elements in Marine Environments | **Victor Wepener**

3.06.P - Methods for Deriving Protective Guidelines for Environmental Exposure | Rebecca Fisher, Amanda Reichelt-Brushett, Kenneth Leung

3.06.P–ThFr22 - Deriving of Predicted No Effect Concentration for Pharmaceuticals in Global Estuaries Monitoring Programme | **Chong Chen**

3.06.P–ThFr23 - Ecological Risk Assessment of Emerging PFAS in the Marine Environment | **Qi Wang**

3.06.P–ThFr24 - Development and Validation of LC-MS/MS Analysis Method for Biomonitoring of Glyphosate and its Metabolites in Human Serum | **Luthando Tiya**

3.09.P - Nanomaterials and Advanced 2D Materials: Innovations, Transformations, and Ecotoxicological Implications | Mary Gulumian, Victor Wepener, Mona Connolly

3.09.P–ThFr25 - Insight into Factors Influencing the Purchase, Use and Disposal of Rapid Antigen Test Kits: Potential Environmental Impact of the Generated Nano-waste | **Fanelesibonge Vilakazi**

3.09.P–ThFr26 - A Comparative Toxicological Assessment of Gold Nanoparticles (nAu) from Rapid Diagnostic Test Kits in Aquatic Ecosystems | **Rorisang Malatsi**

3.09.P–ThFr27 - Immune and Stress Responses in Zebrafish Exposed to Pregnancy Rapid Test Kit Leachate | **Christene Goldman**

3.09.P–ThFr28 - Comparative Surface Characterization of Nano-Enabled Rapid Antigen Test Kits | **Mas'ood Alli**

3.09.P–ThFr29 - Automated Synthesis of Silica-Supported Metal Nanoparticles for Enhanced Catalytic Transfer Hydrogenation of Cinnamaldehyde | **Tafadzwa Precious Mabate**

3.09.P–ThFr30 - Hazard Assessment of Graphene Family Materials (GFMs) Using the Aquatic Invertebrate *Daphnia magna* As Indicator Organism | **Calista Cloete**

5.01.P - Innovative Technologies for Sustainable Remediation and Restoration of Polluted Environment | Chioma Bertha Ehis-Eriakha, Chidinma Peace Okafor, Randal Albertus, Chioma Blaise Chikere

5.01.P–ThFr33 - Metagenomic analysis of microbial communities and their functions in crude oil polluted soils | **Chidinma Peace Okafor**

5.01.P–ThFr34 - Bioremediation and metal tolerance potentials of organisms isolated from crude oil-polluted environment | **Chioma Blaise Chikere**

5.01.P–ThFr35 - Preferred Nitrogen Source for Bacterial Remediation of Crude Oil Impacted Soils | **Nsongurua Dan**

5.01.P–ThFr36 - Integrated Characterization and plastic Bioremediation Applications of Novel microorganisms from Different Ecological Niches | **Aubrey Dickson Chigwada**

5.01.P–ThFr37 - Soil Microbiome Response to Nature-Based Solutions and Amendments for Sustainable Agriculture | **Chioma Blaise Chikere**

5.01.P–ThFr38 - Evaluating the Impact of Crude Oil Pollution on Soil Health in the Niger Delta: A Baseline for Smart Sensor Development | **Elizabeth Briggs**

5.01.P–ThFr39 - Bioremediation Efficiency and Microbial Adaptation in Hydrocarbon-Polluted Soils in Ogoni, Niger Delta, Nigeria | **Laura Nwogu-Chigozie**

5.01.P–ThFr40 - Characterisation of Magnetic Biochar Nanocomposites and Their Application for Treatment of Water Contaminated with Potentially Toxic Elements | **Dipuo Thobakgale**

5.01.P–ThFr41 - Recovery Of Valuable Resources From Acid Mine Drainage Using A Selective Precipitation And Removal Of Residual Chemical Species By Phytoremediation | **Phethego Gad Komane**

5.01.P–ThFr42 - Fabrication of Maize Tassel Waste-Derived Novel Adsorbent for Efficient Per and Polyfluorinated alkyl Substances (PFAS) Removal from Water: Enhancing Circular Economy Solutions | **Innocentia Sibiya**

7.02.P - Late-Breaking Science Poster Session

7.02.P–ThFr45 - Chronicles of Clearwater – Where the Water Wonders Live: A Children's Book Series Bridging Science, Sustainability, and Storytelling | **Tarryn L Botha**

Posters | Thursday and Friday

7.02.P–ThFr47 - Temporal Shifts In Field Margin Structure And Lepidopteran Larval Use: Towards A Likelihood Of Exposure Framework | **Ivy Ng'iru**

7.02.P–ThFr48 - The Effects of Ethanolic Extract of *Boo-phone Disticha* on the Development of Zebrafish (*Danio Rerio*) Embryos | **Patria Hartman**

7.02.P–ThFr49 - Effects of Ethanolic Extracts of *Crinum Moorei* and *Crinum Macowanii* on Behaviour and Histo-morphometry of the Liver and Kidneys of Zebrafish Social Defeat Stress Model | **Pfarelo Mbelengwa**

7.02.P–ThFr52 - Evaluation of Cytotoxicity, Bioactivity Potentials of Phytochemicals Derived in Bioassay-guided Fractionation of *Cannabis sativa* Leaves | **Modupe Ogunrombi**

7.02.P–ThFr53 - Sentinel potential of *Klebsiella pneu-moniae* for environmental AMR: RT-PCR surveillance of wastewater over an annual cycle | **Onalenna Mabeo**

7.02.P–ThFr54 - Toxicological Effects of Environmentally Relevant Concentrations of Selected Endocrine Disrupting Chemicals on a Mouse Sertoli Cell Line (TM4): Implications for Male Reproductive Health | **Nthabiseng Matjo-mane**

7.02.P–ThFr55 - Wastewater-Based Surveillance of Viral Pathogens and Resistomes as Indicators of Public Health and Pollution in Sub-Saharan African Urban Environments | **Henry Ogola**

7.02.P–ThFr56 - Sustainable Management of E-Waste from Renewable Energy: An Institutional Framework and Policy Gap Analysis in Mozambique | **Kevin Nhampule**

7.02.P–ThFr57 - Fuel Fraud, Emissions, and Economic Loss: Combating Fuel Adulteration in South Africa through Biomarker Detection | **Keleish Pillay**

7.02.P–ThFr58 - C1q stimulates polarization and enhances mitochondrial respiration in M2 macrophages thereby promoting malignant progression of gastric cancer | **Saisai Gong**

7.02.P–ThFr59 - Metabolic Perturbations in Mice Following Acute Exposure to Naphthalene Using Untargeted Metabo-lite Profiling Technique | **Kelechi Lele**

7.02.P–ThFr60 - Sewage sludge time scale physical and chemical data for AI applications (Pilot Study) | **Innocen-tia Kgomoetso Jamda**

7.02.P–ThFr61 - Out of Sight – An Evaluation of the Current Phase I Action Limit for Assessing Environmental Impact of Veterinary Pharmaceuticals | **Louis-Marvin Sander**

7.02.P–ThFr62 - Effect of In Vitro Exposure of First-Line Antiretrovirals on Human Sperm Motility Parameters | **Nthabiseng Matjomane**

7.02.P–ThFr63 - Unravelling the Nexus: Gender, Poverty, and Pollution in the Triple Planetary Crisis | **Jason Weeks**

7.02.P–ThFr64 - About 1.55 trillion Microplastics Flowing Through Protected Areas: Evidence from Kruger National Park Rivers, South Africa | **Purvance Shikwambana**

7.02.P–ThFr65 - Environmental and Health Risks of Polybrominated Diphenyl Ethers (PBDEs) at Informal Electronic Waste Recycling Sites in Nigeria | **Chimere May Ohajinwa**

7.02.P–ThFr66 - Impacts of HHPs as key emitters of GHG's influencing climate change adaptation strategies globally | **Debbie Muir**

7.02.P–ThFr67 - Highly Hazardous Pesticides: Impacts on Aquatic Ecosystems and Human Health | **Debbie Muir**

7.02.P–ThFr68 - Multi-Criteria Ranking Tool for Antiretrovi-ral Drugs: A Guide to Water Quality Monitoring Priorities | **Suranie Horn**

7.02.P–ThFr69 - Does Environmental Noise Mask Microplastic Signals? An Assessment of the Microplastic Discharge Unit on Wastewater Treatment Plants in Alpine Rivers | **Heinrich Dahms**

7.02.P–ThFr70 - Environmental Sustainability and Alter-native Practices in the Western Highland of Cameroon | **Beltha Tanlaka**

7.02.P–ThFr71 - Agrochemical Use and Human Health Risks in the Western Highlands of Cameroon | **Wilson Berinyuy Tanlaka**

7.02.P–ThFr72 - Are There Micro-Sized Plastics Pollutants In South African Municipal Wastewater And Drinking Water Treatment Plants? | **Nomfundo Mhlambi**

7.02.P–ThFr73 - Control Fish Populations in the Era of Pharmaceutical Pollution in South African Aquatic Environ-ments | **Uwineza Marie Clementine Nibamureke**

Notes

Friday

Time (SAST)	Daily Schedule	Location
8:00–14:00	Registration and Badge Pick-Up	Pavilion Foyer
8:00–9:00	Poster Set-Up	Exhibition Hall
9:00–9:45	Publications Panel	Pavilion
9:45–10:30	Coffee, Exhibits and Posters	Exhibition Hall
10:30–11:50	Platform Sessions	Committee Rooms 2, 4, 5
11:50–13:20	Lunch, Exhibits and Posters	Exhibition Hall
13:20–14:40	Platform Sessions	Committee Rooms 2, 4, 5
14:40–14:50	Transition Break	
14:50–15:15	Closing Remarks	Committee Room 5

Friday Morning Platforms

1.06.A - Wildlife Ecotoxicology: Integrating Bottom-Up and Top-Down Effects of Stressors in a Changing World | Victor Wepener, Yoshinori Ikenaka, Frances Orton, Michael Bertram

Committee Room 2	10:30–10:35	1.06.A - Introduction
	10:35–10:50	1.06.A–T01 - Effects of Environmentally Relevant Pollutant Mixtures on Common Frog (<i>Rana Temporaria</i>) Tadpoles Lavanya Vythalingam
	10:50–11:05	1.06.A–T02 - Soil ingestion and toxic elements: A framework for future biodiversity conservation monitoring Andrea B. Webster
	11:05–11:20	1.06.A–T03 - Pharmaceuticals reduce resilience of European common frog (<i>Rana temporaria</i>) populations in UK ponds Dominique Anderson
	11:20–11:35	1.06.A–T04 - Indirect Effects Dominate Forest Ecosystem Responses to Herbicides Christopher Edge
	11:35–11:50	1.06.A–T05 - FISHRAC: real-time monitoring, evaluation and rapid response to multiple water quality, habitat and flow stressors in remote rivers Gordon O'Brien

3.02.C - Emerging Contaminants in Water: Current Trends and Innovations in Developing Countries | Olatunde Olatunji, Faith Kandie, Beatrice Opeolu, Memory Tekere

Committee Room 4	10:30–10:35	3.02.C - Introduction
	10:35–10:50	3.02.C–T01 - Optimisation and Validation of a High – Performance Liquid Chromatography – Photo Diode Array Method for the Quantification of Selected Pharmaceuticals in Biological and Environmental Matrices Nerissa Rajkumar
	10:50–11:05	3.02.C–T02 - Photodegradation Kinetics of Amoxicillin, Carbamazepine and Diclofenac Under Simulated Solar Light: Insights from Fluorescence EEMs Deconvolution Ntsieni Molaudzi
	11:05–11:20	3.02.C–T03 - Mitigating membrane fouling in abattoir wastewater treatment, integration of pre-treatment step with zwitterion modified graphene oxide-polyethersulfone composite membranes Meladi Motloutsi
	11:20–11:35	3.02.C–T04 - Prioritization of Pharmaceutical Compounds for Safe Agricultural Water Reuse: A Case Study Within the NEWater Project Lucas Leonel Alonso
	11:35–11:50	3.02.C–T05 - Discussion

5.01.C - Innovative Approaches for Sustainable Management, Remediation and Restoration of Environmental Matrices | Chioma Bertha Ehis-Eriakha, Chidinma Okafor, Randal Albertus, Chioma Blaise Chikere

Committee Room 5	10:30–10:35	5.01.C - Introduction
	10:35–10:50	5.01.C–T01 - Valorisation of Discarded Paper Waste for Bioethanol Production at Kwame Nkrumah University of Science and Technology, Ghana Frank Tandoh
	10:50–11:05	5.01.C–T02 - Briquetting: A Sustainable Innovative Technology for Gaseous Emission Reduction in Developing Countries Ogechukwu Mbanefo Ogechukwu Mbanefo
	11:05–11:20	5.01.C–T03 - The Effects of Different Bio-ozone Treated Effluents on the Structure and Functioning of Freshwater Ecosystems Dailing Wu
	11:20–11:35	5.01.C–T04 - Phytoremediation Potential of Phragmites australis and Zostera capensis for Removing Organophosphate Pesticides from Polluted Watersheds Chijioke Olisah
	11:35–11:50	5.01.C–T05 - Organobentonite-supported TiO ₂ Composite for the Simultaneous Adsorption and Photocatalytic Reduction of Cr(VI) from Water and Bacterial Disinfection Dipuo Kgabi

Platform Sessions | Friday Afternoon

1.06.B - Wildlife Ecotoxicology: Integrating Bottom-Up and Top-Down Effects of Stressors in a Changing World | Victor Wepener, Yoshinori Ikenaka, Frances Orton, Michael Bertram

Committee Room 2	13:20–13:30	1.06.B - Introduction
	13:30–13:45	1.06.B–T01 - Iron Stable Isotope Composition as an Indicator of Iron Metabolism in Vertebrates Nanako Hasegawa
	13:45–14:00	1.06.B–T02 - Heavy Metal and Pesticide Exposure in African Elephants: A Study from Lower Zambezi, Zambia Kanami Watanabe
	14:00–14:15	1.06.B–T03 - A Bug's Life: Pollution Impacts on Aquatic Communities Nick Rivers-Moore
	14:15–14:30	1.06.B–T04 - Behavioural Responses of common frog <i>Rana temporaria</i> Tadpoles to Varying Stress-or Intensities in a Field-Based Experiment Jude Wilson
	14:30–14:40	1.06.B–T05 - Discussion

3.03 - Fate and Effects of Metals in the Environment: Ecological and Human Health Implications | Hannes Erasmus, Victor Wepener

Committee Room 4	13:20–13:25	3.03 - Introduction
	13:25–13:40	3.03–T01 - Pollutant Source Identification in a Platinum Belt Headwater Catchment: A Comparative Geospatial Assessment of Dissolved and Sediment-bound Metals Jonathan Levin
	13:40–13:55	3.03–T02 - Phylogenetic and mechanistic underpinning of soil invertebrate sensitivities to metals David Spurgeon
	13:55–14:10	3.03–T03 - Poster Spotlight featuring 3.03.P–ThFr16, 3.03.P–ThFr17, 3.03.P–ThFr18
	14:10–14:20	3.03–T04 - Poster Spotlight featuring 3.03.P–ThFr19, 3.03.P–ThFr20
	14:20–14:35	3.03–T05 - Discussion

3.06 - Methods for Deriving Protective Guidelines for Environmental Exposure | Rebecca Fisher, Amanda Reichelt-Brushett, Kenneth Leung

Committee Room 5	13:20–13:25	3.06 - Introduction
	13:25–13:40	3.06–T01 - Deriving protective guidelines in ecotoxicology – recent developments in statistical ecotoxicology and their adoption within the Australian and New Zealand Water Quality Guidelines Rebecca Fisher
	13:40–13:55	3.06–T02 - South African Water Quality Guidelines for Aquatic Ecosystems (2024 Revised Version) Paul Kojo Mensah
	13:55–14:10	3.06–T03 - Marine Ecotoxicology and Climate Change: Deriving Water Quality Benchmarks with Consideration of Influence of Multiple Stressors on Chemical Toxicity Kenneth M. Y. Leung
	14:10–14:25	3.06–T04 - How to Consider Additive Mixture Toxicology within Veterinary Pharmaceutical Legislation Louis-Marvin Sander
	14:25–14:40	3.06–T05 - Poster Spotlight featuring 3.06.P–ThFr21, 3.06.P–ThFr22

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Notes



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