SETAC AUSTRALASIA

ACTRA

2025 CONFERENCE

BUILDING A LASTING LEGACY: OUR CHOICE, THEIR FUTURE

25-28 August 2025
Te Whanganui-a-tara Wellington

Monday, 25 August

9.00am – 6.00pm	**Pre-Conference Workshops -** Range of half day & full day offerings **CLICK HERE TO VIEW TIMINGS OF EACH ONE**	James Cook Hotel, Level 16
6.00 -7.30pm	**Welcome Reception with Exhibitors** For all conference delegates with RSVP through registration. Drinks & nibbled provided.	

Tuesday, 26 August

7.00 – 8.30am	Buddy Breakfast *For invited mentors & mentees*		TBC, James Cook Hotel
7.30 – 5.35pm	Registration Desk Open		James Cook Hotel, Level 16
8.45 - 9.25am	**Mihi Whakatau & Conference Opening**		Chancellor 1, James Cook Hotel
9.25 – 9.55am	**Plenary: Simon Upton** (Parliamentary Commissioner for the Environment)		
9.55 - 10.25am	**Plenary: Erica Gregory** (NZ EPA) "Whiria te muka, whiria te mātauranga, whiria te taura tangata – Weave the rope, thread the knowledge, strengthen the bond"		
10.25 – 10.30am	**NiPera Presentation**		
10.35 – 11.00am	**Morning Tea in Exhibition area**		Chancellor 2 & 3
11.00 – 12.30pm	**Concurrent Session 1**		
	1A: Bridging the gap: Collaborative pathways to transformative outcomes in pollution monitoring, mitigation and management **Chair:** Jackie Myers, AQUEST RMIT University	**1B:** Risk Assessment & Regulation of Metals in the Asia-Pacific Region 1 **Chairs:** Jenny Stauber, La Trobe University & Ross Smith, Hydrobiology & Ellie Middleton, NiPERA	**1C:** Predator free islands and conservation - human health risk aspects **Chair:** Robert DeMott, Ramboll
Room			
11.00 – 11.15	Collaborative Action Against Waterway Contamination **Claudette Kellar, AQUEST, RMIT University**	Developing acute copper and zinc guideline values for freshwaters in Aotearoa New Zealand **Jenni Gadd, Hydrotoxy Research**	Saving Species - One Island at a Time **Keith Springer & John Quigley, BirdLife South Africa**
11.15 - 11.30	He kākano ahau: Learnings of an Indigenous emerging scientist on delivering impact for Māori **Grace Feltham, Institute of Environmental Science and Research**	A new framework for the implementation of bioavailability-based metal guideline values in Australia and New Zealand **Jenny Stauber, La Trobe University**	Predator-free islands: assessment and mitigation of human exposure to rodenticides during invasive rodent eradication **Paula Castaño, Island Conservation**
11.30 – 11.45	Lessons from the coalface: risk assessment techniques from heavy industry	An improved method for deriving default guideline values for metals	Advancing the registration of norbormide as an alternative to broad-spectrum rodenticides

	Victor Kabay, University of Melbourne	in freshwaters in Australia and New Zealand **Aleicia Holland, La Trobe University**	**Charles Eason, Lincoln University**
11.45 – 12.00	How to Poison the Credibility of Regulators: Responding to Hollywood's Advocacy on PFAS **Craig Dalton, University of Newcastle**	A Methodological Framework for the Assessment of Bioavailable Iron in Fresh Water Samples **Emiliano Balsamo Crespo, Southern Cross University**	Lord Howe Island Rodent Eradication Program – Community Health Concerns **Belinda Goldsworthy, Environmental Risk Sciences (enrisks)**
12.00 – 12.15	Tackling Pollution through Transdisciplinary and Indigenous Partnership Approaches **Virginia (Jinny) Baker, Institute of Environmental Science and Research (ESR)**	Optimisation of the USEPA (1991) pH 2 extraction method for measuring potentially bioavailable iron (iron III) **Melanie Trenfield, The Environment and Water**	Addressing Agent Toxicity in Community Risk Assessment for Lord Howe Island Rodent Eradication **Bob DeMott, Ramboll**
12.15 – 12.30	A collaborative pathway to improved vegetation management **Jackie Myers, Aquest RMIT University**	Environmental risk assessment of chromium in waters near nickel laterite deposits in South-east Asia and Melanesia **Ross Smith, Hydrobiology**	
12.30 – 1.30pm	**Lunch in Exhibition area**		Chancellor 2 & 3
1.30 – 3.00pm	**Concurrent Session 2**		
	2A: Bridging the gap 2 **+** Toxicants & environmental impacts on wildlife **Chair:** Jackie Myers, AQUEST RMIT University	**2B:** Risk Assessment & Regulation of Metals 2 **+** Contaminants in soil 1 **Chair:** Jenny Stauber, La Trobe University & Ross Smith, Hydrobiology & Ellie Middleton, NiPERA ***Supported by NIWA***	**2C:** Toxicology of the Visual System **Chair:** Effi Liden, APVMA / ACTRA Membership Officer
Room			
1.30 – 1.45	Cultural Considerations of Trace Elemental Seafood Safety Following Volcanic Eruption at Whakaari White Island **Danielle Blackwell, The University of Waikato**	Barium toxicity to stygobionts and groundwater guideline values **Merrin Adams, Aquatic Ecotox**	Visual and ocular discomfort/disorder/impairment/ disease at work: a new issue or an old one? **Bruno Piccoli, University of Rome Tor Vergata**
1.45 – 2.00	The Mystery of the Tainted Aquifer: Using Emerging Contaminants and Environmental Isotopes to Unmask the Sources of Groundwater Pollution **Oliver Jones, RMIT University**	Assessment of *Amphibola crenata* as a bioindicator of estuarine trace element pollution using biochemical and physiological endpoints **Nuwan De Silva, Environment Canterbury Regional Council**	
2.00 – 2.15	Transforming chemical and waste management using multiple worldviews **Louis Tremblay, Manaaki Whenua - Landcare Research**	Metal Management: Characterising Native DOM Super-Producers to Feed a DOM-Metal-Mixture-Bioavailability Model **Aleicia Holland, La Trobe University**	
2.15 – 2.30	Toxicants & environmental impacts on wildlife **Chairs:** Olivier Champeau, EPA & Dayanthi Nugegoda, RMIT	Metal Mitigation: Nature based solutions for freshwater management **Karen Thompson, NIWA**	

	University & Anne Vignier, Cawthron Institute		
	Can exposure to pharmaceuticals impact animal interactions and survival in the wild? **Marcus Michelangeli, Griffith University**		
2.30 – 2.45	Herbicides detected in soils surrounding solitary ground-nesting bee nesting aggregations **Felicia Kueh Tai, Plant and Food Research**	Contaminants in soil: Filling knowledge gaps & enhancing decision making **Chairs:** Jo Cavanagh, Manaaki Whenua Landcare Research & Albert Juhasz, University of South Australia	Development of Proposed New Perchloroethylene Toxic Optic Neuropathy Toxicity Reference Value and Action Levels **Rhian Cope, SLR Consulting**
		New Insights into Pesticide Residues in New Zealand Soil **Melanie Kah, The University of Auckland**	
2.45 – 3.00	PFAS and pesticides in Australian raptor species: terrestrial biomonitor for a changing climate **Phoebe Lewis, Environment Protection Authority Victoria**	Springtail safari: a field-based assessment of agrichemical use **Jo Cavanagh, Manaaki Whenua Landcare Research**	
3.00 – 3.30pm	**Afternoon Tea in Exhibition area**		Chancellor 2 & 3
3.30 – 4.00pm	**Plenary: Lidia Morawska** (Queensland University of Technology)		Chancellor 1
4.00 – 4.05pm	*Move between sessions*		
4.05 – 5.35pm	**Concurrent Session 3**		
	3A: Toxicants & environmental impacts on wildlife 2 **Chairs:** Olivier Champeau, NZ EPA & Dayanthi Nugegoda, RMIT University & Anne Vignier, Cawthron Institute	**3B:** Contaminants in soil 2 **Chairs:** Jo Cavanagh, Manaaki Whenua Landcare Research & Albert Juhasz, University of South Australia	**3C:** Contaminants in consumer products and cosmetics **+** Alternative approaches to animal testing **Chairs:** Sarit Kaserzon & Sara Ghorbani Gorji, The University of Queensland & Melanie Kah, University of Auckland ***Supported by University of Auckland***
Room			
4.05 – 4.20	Application of the Fish Embryo Toxicity (FET) Test to Assess Bifenthrin Toxicity in Early Life Stages of two native fishes: *Mogurnda adspersa* and *Melanotaenia fluviatilis* **Tehmina Yaqoob, RMIT University**	The Contaminated Sites We've Shut Down **Ruth Jarman, Environmental Risk Sciences (enRiskS)**	Triaging Chemical Analyses in Product Testing: The Role of Non-Destructive Analytical Methods **Ian Zammit, QAEHS, The University of Queensland**
4.20 – 4.35	Understanding the impacts from fluoride emissions to local wildlife at an aluminium smelter **Kate Langdon, Environmental Risk Sciences**	Arsenic, cadmium, lead, antimony bioaccessibility and relative bioavailability in legacy gold mining waste **Farzana Kastury, Future Industries Institute/University of South Australia**	PFAS and Other Additives in 'Eco-Friendly'/Compostable Products: Analytical Insights from Aotearoa New Zealand **Nargiss Taleb, University of Auckland**

4.35 – 4.50	Green-lipped mussels as a New Zealand ecotoxicology model: Effects of land-derived stressors and temperature on early life stages **Julien Vignier, Cawthron Institute**	How effective are immobilisation strategies for reducing ecological and human exposure to PFAS in AFFF-impacted soil? **Albert Juhasz, University of South Australia**	From Lipstick to Lunch Plates: Unmasking PFAS in Everyday Essentials **David Springer, Envirolab**
4.50 – 5.05	Metal bio-accumulation patterns in Mollusca globally: the influence of life history traits **Rushna Alam, Australian Institute of Marine Science**	Intact soil monoliths sampling and experimental setup to assess the fate of a PFAS-fungicide in two soils of north-eastern Italy **Giovanna Piazzon, University of Padova**	Measuring PFAS in Cosmetics: Analytical Perspectives and Results **Jacob Jaine, Als Global**
5.05 – 5.20	Heavy metal concentrations in feathers and metabolomic profiles in Pacific black ducks (Anas superciliosa) from Southeastern Australia **Dayanthi, Nugegoda, RMIT University**	Assessing Contaminant Risks in Antarctic Soils: Development of Native Fungal Toxicity Tests **Jordan Amy Vink, University of New South Wales**	Alternative approaches to animal testing **Chairs:** Emma Garfield & Maria Charry, EPA Exploring in silico strategies for advancing early-stage development of pest-selective toxicants **Erica Hendrikse, Manaaki Whenua Landcare Research**
5.20 – 5.35	Altered avian sperm morphology around nickel extraction and processing industries in New Caledonia **Max Gillings, Macquarie University** (ACTRA Di Marco Student Travel Grant Recipient)	Microplastic Mass Inputs from Landfill Soil-like Fractions to Soil Systems: Quantification Approach and Implications for Waste Management Strategy **Fangfang Lou, Zhejiang University**	Identification of Critical Pathways in Developmental Toxicology through Developing an Adverse Outcome Pathway Network **Esmaeil Mousavi, Griffith University**
5.35 – 7.00pm	**Poster & Networking Reception in exhibition area**		Chancellor 2 & 3
7.00pm onwards	**Student Function**		Fork & Brewer

Wednesday 27 August

8.00 – 5.30pm	**Registration Open**	James Cook Hotel, Level 16
8.45 – 9.00am	**Welcome & Award Announcements**	Chancellor 1, James Cook Hotel
9.00 – 9.05am	**Vincent Arbuckle** (Deputy Director-General New Zealand Food Safety (DDG))	
9.05 – 9.35am	**Plenary: Peter Dawson** (New Zealand's Environmental Protection Authority)	
9.35 – 10.05am	**Plenary: Vittorio Fattori** (FAO) Food safety foresight and emerging issues	
10.05 – 10.35am	**Plenary: John Roche** (Ministry for Primary Industries) Food security, consumer preferences and the interaction with environmental inhibitors	
10.35 – 11.00am	**Morning Tea in Exhibition**	Chancellor 2 & 3
11.00 – 12.30pm	**Concurrent Session 4**	

	4A: Alternative approaches to animal testing 2 **+** Toxicants & environmental impacts on wildlife 3 **Chairs:** Emma Garfield & Maria Charry, EPA	**4B:** Contaminants of emerging concern **Chair:** Kate Bromfield, HazEL ***Supported by Hazard Evaluation Ltd***	**4C:** Whole-of-life approach to risk assessment **+** Micro- and nanoplastics **Chairs:** Adam Wightwick, Ramboll & Tarah Hagen, SLR Consulting / ACTRA President
Room			
11.00 – 11.15	Development and characterisation of marine wildlife cell cultures for ethical toxicity testing **Jason van de Merwe, Griffith University**	A structural basis for the activation of peroxisome proliferator-activated receptor gamma (PPARγ) by perfluorooctanoic acid (PFOA) **John Bruning, The University of Adelaide**	Regulatory challenges of waste reuse in a circular economy **Antti Mikkonen & Jen Martin, Environment Protection Authority Victoria**
11.15 - 11.30	Monitoring chemical exposure and effect in sea turtles using novel cell-based bioassays **Kimberly Finlayson, Griffith University**	Are PFAS yet another threat to bees? **Carolyn Sonter, University of New England**	Recovery of industrial residues: Toxicology needs to support risk assessments for resource recovery **Adam Wightwick, Ramboll**
11.30 – 11.45	Toxicants & environmental impacts on wildlife 3 **Chairs:** Olivier Champeau, NZ EPA & Dayanthi Nugegoda, RMIT University & Anne Vignier, Cawthron Institute Expanding the use of portable XRF to monitor lead exposure in an Australian duck species two decades after a ban on lead shot **Damien Nzabanita, RMIT University**	Small Creatures, Big Contaminants: PFAS uptake in macroinvertebrates **Adele Romagnano, RMIT University**	From Waste to Biomaterials: Towards Sustainable and Safer Nanocomposites for Biomedical Applications **Aksha Dhawan, TERI-Deakin Nanobiotechnology Center**
11.45 – 12.00	What can feathers tell us about the metal concentrations in internal bird tissues: an analysis of the global literature **Mattea Taylor, University of Newcastle**	PFAS in Tap and Bottled Water in Australia: Overcoming Detection Limits and Background Contamination **Sara Ghorbani Gorji, UQ**	Micro- and nanoplastics: Environmental emission and sources, human exposure, & potential health implications **Chairs**: Cassandra Rauert & Elvis Okoffo, University of Queensland Quantifying Small Antifouling Paint Particles in Sediments by Pyrolysis-Gas Chromatography-Mass Spectrometry **Gabriel De La Torre Picho, The University of Queensland**
12.00 – 12.15	Does ionising radiation impact the growth of a tropical marine microalgae? Informing potential risks from offshore oil and gas infrastructure **Alexandra Bastick, ANSTO & La Trobe University**	Untargeted Screening of Environmental Samples – Identifying Emerging Pollutants **Courtney Milner, Agilent Technologies**	Optimising pyrolysis GCMS techniques for halogenated plastics detection **Ruvini L. Weerasinghe, QAEHS, The University of Queensland**
12.15 – 12.30	Bioaccumulation and biodistribution of legacy nuclear contaminants in metamorphosing tadpoles at the Savannah River Site, South Carolina **Danielle Hill, Griffith University**	Combining Passive Sampling and HRMS for Scalable Micropollutant Monitoring Frameworks **Pulasthi Serasinghe, Rmit Aquest**	Comparative analysis of conventional and biodegradable microplastics in composts by pyrolysis-gas chromatography/mass

			spectrometry and micro-Fourier-transform infrared spectroscopy **Helena Ruffell, University of Canterbury**
12.30–1.30pm	**Lunch in Exhibition**		Chancellor 2 & 3
1.30 – 3.00pm	**Concurrent Session 5**		
	5A: Environmental omics applied to ecotoxicology & eco-surveillance **+** Enhancing evidence synthesis in ecotoxicology **Chairs:** Steve Melvin, Griffith University & David Beale, CSIRO	**5B:** Contaminants of emerging concern 2 **Chairs:** Anathea Albert & Michaela Busch, EPA	**5C:** Micro- and nanoplastics: Environmental emission and sources, human exposure, & potential health implications 2 **Chairs:** Cassandra Rauert & Elvis Okoffo, University of Queensland
Room			
1.30 – 1.45	Low salinity influences the dose-dependent transcriptomic responses of oysters to cadmium **Junfei Zhan & Chenglong Ji, Ludong University**	A national survey of the occurrence of antimicrobials in wastewater influent, effluent and biosolids **Jake O'brien, The University of Queensland**	Assessment of Microplastic Pollution in Snow: A Study from a High Mountain National Park in Türkiye **Fatma Nur, Eraslan Eskisehir Technical University**
1.45 – 2.00	Individual and interactive effects of particulate copper and common carp (*Cyprinus carpio L.*) on prokaryotic and eukaryotic benthic assemblages **Grant Hose, Macquarie University**	Assessment of Seasonal Variability, Treatment Performance, and Ecological Risks of Target Contaminants of Emerging Concerns (CECs) in four Victorian WWTPs **Madara Weerasooriyagedara, University of Melbourne**	Micro- and macroplastic distribution in Aotearoa New Zealand's Coastal Environment and their associated trace elements **Hayden Masterton, Institute of Environmental Science and Research**
2.00 – 2.15	Exploring the co-exposure effects of environmentally relevant microplastics and an estrogenic mixture on the metabolome of the Sydney rock oyster **Sazal Kumar, University of Newcastle**	Occurrence of synthetic musk fragrances in Australian urban streams in relation to land-use **Tanya Paige, RMIT University**	The Plastisphere as a Vector of Antibiotic and Transformation Product Residues: Implications for Resistance Spread in Wastewater Ecosystems **Maryam Zarean, York University**
2.15 – 2.30	Functional omics insights into per- and polyfluoroalkyl substances (PFAS) exposure in different marine turtle taxa **Sarah Green, CSIRO**	The application of effect-based methods (EBMs) for water quality assessment in South Africa (SA): Wakkerstroom, a case study **Natalie Aneck-hahn, University of Pretoria**	Do microplastics change the microbial risk profile of wastewater? **Olga Pantos, Institute of Environmental Science and Research**
2.30 – 2.45	Enhancing evidence synthesis in ecotoxicology: Current practices, what we are missing, & how we can improve **Chairs**: Marcus Michelangeli, Griffith University & Jake Martin, Deakin University	Advancements in Biotransformation Pathway Prediction: Enhancements, Datasets, and Novel Functionalities in enviPath **Jörg Wicker, University of Auckland**	Do microplastics increase the toxic effects of Cyanobacterial toxins on the floodplain mussel (*Velesunio ambiguus*)? **Sadia Sharmin, University of Technology Sydney (UTS)**
	A research synthesis of humans, animals, and environmental compartments exposed to PFAS: A systematic evidence map and bibliometric analysis of secondary literature **Lorenzo Ricolfi, UNSW Sydney**		

2.45 – 3.00	The effects of micro-plastics on the fitness of marine animals: a meta-analysis **Xinyi Liu, Australian National University**	Does benchmarking increase the accuracy of predicting biodegradation across aquatic ecosystems? **Run Tian, The University of Queensland**	
3.00 – 3.30pm	**Afternoon Tea**		Chancellor 2 & 3
3.30– 4.00pm	**Plenary: Kevin Thomas** (The University of Queensland) Plastic Particles and Human Health: Addressing Analytical Challenges in Exposure Assessment		Chancellor 1
4.00 – 4.30pm	**Plenary: Bryan Brooks** (Baylor University, Texas)		
4.30 – 4.35pm	**SLR Consulting Presentation**		
4.35 – 5.30pm	**Concurrent Session 6**		
	6A: SETAC AU AGM	**6B:** Contaminants of emerging concern 3 **Chairs:** Ailish Power, James Butcher, EPA	**6C: ACTRA Debate** **Chair/Moderator:** Paul Wright, RMIT University / ACTRA Immediate Past President
Room			
4.35 – 4.50	**SETAC AU AGM** (4.30pm – 6.00pm)	Drowning in Toxins: Exploring the Ecotoxicological Effects of *C. grandiflora* on Freshwater Species **Martine Tande, Tropwater**	**ACTRA Debate Session** (4.30pm – 5.30pm) **Debaters: Grant Northcott** (Northcott Research Consultants) **and Adam Wightwick** (Ramboll)
4.50 – 5.05		Evaluating herbicides as ALP enzyme inhibitors – towards rapid herbicide monitoring **Abner Tonu Lema, Monash University**	
5.05 – 5.20		Understanding the sources and fate of bifenthrin in new housing estates within Melbourne, Australia **Madara Ranatunga, RMIT University**	
5.20 – 5.35		Where Do Tyre Particles Go? Quantifying and Identifying Tyre Wear Particles in Balcony Road Dust **Simran Kaur, QAEHS (The University of Queensland)**	
5.35 – 6.00			
6.30 – 11.30pm	**Conference Dinner**		New Zealand Parliament

Thursday, 28 August

8.00 – 5.00pm	**Registration Desk Open**	
8.45– 9.15am	**Welcome & Plenary: Nicholas Ashbolt** (CRC SAAFE) Microbial Fallout: Pollution-Driven Evolution, Ecosystem Tipping Points, and the Case for New Risk Endpoints	Chancellor 1
9.15 – 9.20am	**Botanical Resources Australia Presentation**	

9.20 – 9.25am	*Move between sessions*		
9.25 – 10.55am	**Concurrent Session 7**		
	7A: Enhancing evidence synthesis in ecotoxicology 2 **+** Ecotoxicology & environmental monitoring in challenging environments **Chairs:** Marcus Michelangeli, Griffith University & Jake Martin, Deakin University	**7B:** Future-Proofing Wastewater Treatment: Tackling Emerging Contaminants with a Holistic Approach – it's more than just PFAS **Chairs:** Becky Macdonald, Jacobs NZ Ltd & Monique Binet, CSIRO ***Supported by Water NZ***	**7C:** Food Chemical Risk Assessment 1 **Chairs:** Stuart Creton, Food Standards Australia New Zealand & Jefferson Fowles, New Zealand Food Safety
Room			
9.25 – 9.40	MATES: A tool for evaluating the quality of reporting of meta-analyses **Kyle Morrison, University of New South Wales**	PFAS Contamination in the Ames Watershed: Seasonal, Hydrological, and Anthropogenic Influences **Abdullahi Adeola, Iowa State University**	Dietary exposure assessment – giving context to toxicology **Peter Cressey, ESR**
9.40 – 9.55	Embracing open and transparent research practices in behavioural ecotoxicology **Kate Fergusson, Monash University**	Oxidative stress biomarkers in wastewater influents as potential indicators of community health and wellbeing **Sally Gaw, University of Canterbury**	Thallium in Kale from the New Zealand Total Diet Study: Concentrations, Doses, and Comparison with an Overseas Case Study **Jefferson Fowles, Ministry for Primary Industries**
9.55 – 10.10	Ecotoxicology & environmental monitoring in challenging environments **Chair**: Sarah McDonald, TropWATER & Martine Tande, TropWATER/JCU Ice Station: A multidisciplinary approach to assessing environmental risk of a former Antarctic station buried below the ice **Gwilym Price, Australian Antarctic Division**	Synergistic Application of UV/Peracetic Acid and Biological Activated Carbon Filtration for Mitigating Organic Micropollutants and Toxicity in Wastewater **Sana Ajaz, Griffith University**	Chemical contaminants in New Zealand agricultural water – charting the food safety implications **Andrew Pearson, Tonkin + Taylor**
10.10 – 10.25	Biodiversity monitoring using e-DNA metabarcoding **Shreya Pandey, University of Oulu**	Comparative study of PFAS treatment by UV, UV/ozone, and fractionations with air and ozonated air **Jianhua Zhang, Victoria University**	Revisiting genotoxicity studies: case of Bromoform **Abhishek Gautam, Institute of Environmental Science and Research (ESR)**
10.25 – 10.40	Metal bioaccumulation in a tropical river food web in northern Australia **Isabel Ely, Charles Darwin University**	A bioanalytical and chemical approach for wastewater discharge: beyond detected chemicals for water quality assessment **Minna Saaristo, Environmental Protection Authority Victoria**	Toxicological Considerations of Low Doses of Bromoform as an Environmental Inhibitor **Pravesh Tyagi, Ministry for Primary Industries**
10.40 – 10.55	The Potential of Australian Trees as Groundwater Biomonitors **Sarah McDonald, TropWATER**	Managing wastewater for One Health using a holistic approach to maximise opportunities for future investment and innovation **Karl Bowles, Jacobs**	Dynamic PFAS exposure and body burden models provide insights for management of livestock on PFAS impacted

			farms to ensure food quality and market access **Antti Mikkonen, Environment Protection Authority Victoria**
10.55 – 11.20am	**Morning Tea in Exhibition**		Chancellor 2 & 3
11.20 – 12.50am	**Concurrent Session 8**		
	8A: Bridging the gap: Enhancing decision making in regulatory science **Chair:** Chris Lee-Steere, Australian Environment Agency Pty Ltd	**8B:** Identifying 'ecologically relevant endpoints' for microbial processes to inform Environmental Quality Guidelines and One Health approaches **Chair:** Monique Binet, CSIRO & Anthony Chariton, Macquarie University & Marie Thomas, AIMS ***Supported by Australian Institute of Marine Science***	**8C:** Food Chemical Risk Assessment **Chair:** Maryam Moslehi, SLR Consulting / ACTRA Committee Member
Room			
11.20 – 11.35	New Approach Methods as a solution to contaminants of concern in composts **Julia Jasonsmith, Murrang Earth Sciences**	Mining impacts on biogeochemical processes: Insights from the Ranger Uranium Mine **Anthony Chariton, Macquarie University**	The Green Fairy **Rosalind Dalefield, Food Standards Australia New Zealand**
11.35 – 11.50	Setting guidelines well – do we have a problem? **Therese Manning, Enrisks**	Inclusion of microbial endpoints in site-specific Risk Assessments, Environmental Guidelines and Remediation Targets for Antarctic soils. **Catherine King, Australian Antarctic Division**	Particulates, plastics and real-time risks and Food Chemical Risk Assessment 2 TBC Title **Lidia Morawska, Queensland University of Technology**
11.50 – 12.05	Machine Learning for Predicting Environmental Mobility Based on Retention Behaviour **Tobias Hulleman, The University of Queensland**	Identifying microbial indicators of pollution in freshwater urban constructed wetlands **Anna Flynn, Aquatic Environmental Stress Research Group, RMIT University**	
12.05 – 12.20	Applying a screening approach and mixture-based considerations to human and ecological risk assessment of pesticide contaminated groundwater **Sarah Guy, Tonkin + Taylor**	Beyond Microtox – a bacterial toxicity assay suitable for risk assessment in tropical environments **Heidi Luter, Australian Institute of Marine Science**	Particulates, plastics, and real-time risks **Len Turczynowicz, University of Adelaide**
12.20 – 12.35	The currency of ecosystem services: applications for ecotoxicology **Sarah McDonald, TropWATER**	Research to regulation: A quantitative framework for establishing microbial sensitivity thresholds to protect marine ecosystems **Marie Thomas, Australian Institute of Marine Science**	Understanding spatial and temporal trends of atmospheric microplastics in laboratories **Honglin Chen, QAEHS, University of Queensland**
12.35 – 12.50	Reasons for (not?) using passive sampling techniques for environmental monitoring **Jochen Mueller, QAEHS - The University of Queensland**	Predicting the combined effects of pollution and heat stress to adjust guideline values for tropical marine microbiomes **Andrew Negri, Australian Institute of Marine Science**	Everyday exposure to plastic particles: investigating microplastics and nanoplastics in Australian drinking water and release from plastic products

			Elvis Okoffo, QAEHS, University of Queensland
12.50 – 1.35pm	**Lunch in Exhibition**		Chancellor 2 & 3
1.35 – 3.05pm	**Concurrent Session 9**		
	9A: Regulatory science, policies, and evidence-based decisions **Chair:** Eugene Georgiades, EPA	**9B**: Identifying 'ecologically relevant endpoints' for microbial processes to inform Environmental Quality Guidelines and One Health approaches 2 **Chair**: Monique Binet, CSIRO & Erica Donner, CRC SAAFE & Claire Hayward, University of South Australia ***Supported by SAAFE-CRC***	**9C:** Expert Panel on Risk Assessment **Chair/Moderator:** Len Turczynowicz, University of Adelaide
Room			
1.35 – 1.50	Revisions to the ANZG method for deriving water quality guideline values for toxicants **Rick Van Dam, Wqadvice**	Antimicrobial resistance: A global health crisis with complex environmental dimensions **Erica Donner, CRC SAAFE**	**Expert Panel on Risk Assessment** **Panel Members: Lidia Morawska** (Queensland University of Technology)**, Belinda Goldsworthy** (enRisks)**, Stuart Creton** (Food Standards Australia New Zealand)**, Effi Liden** (Australian Pesticides and Veterinary Medicines Authority)
1.50 – 2.05	Addressing key questions in deriving species sensitivity distributions: Insights from recent studies **Yuichi Iwasaki, National Institute of Advanced Industrial Science and Technology (AIST)**	Defining Meaningful Environmental Endpoints for Antimicrobial Resistance: Moving Beyond MICs to Assess Minimal Selective Concentrations for Key Endpoints **Claire Hayward, University of South Australia**	
2.05 – 2.20	Addressing uncertainty in risk assessment and regulatory decisions for industrial chemicals **Alexander Shadie, Australian Industrial Chemicals Introduction Scheme**	Environmental drivers of AMR: investigations of associations of metal contaminants and AMR in agricultural, airstrip and microcosm soil **Barry Palmer, Massey University Wellington**	
2.20 – 2.35	Developing a more focused picture of NZ's chemical landscape **Oliver Ter Ellen, Environmental Protection Authority NZ**	Shaping an approach for deriving water quality guideline values for antimicrobials that integrate ecotoxicity and antimicrobial resistance endpoints **Monique Binet, CSIRO**	
2.35 – 2.50	Changing the rules to keep New Zealanders safe - the role of reassessments in chemical management **Joanna Dowle, Environmental Protection Authority**	Discussion Panel on ecologically relevant endpoints for microbial processes **Chair: Prof Nick Ashbolt, SAAFE-CRC**	
2.50 – 3.05	Strengthening the EPA's approaches to the assessment of wide dispersive chemicals **Eugene Georgiades, Environmental Protection Authority NZ**		

3.05 – 3.35pm	**Afternoon Tea in Exhibition**	Chancellor 2 & 3
3.35 – 4.05pm	**Conference Closing Ceremony** **Student Awards**	Chancellor 1