

Conference Program

Saturday 2nd September

0830-1700	NIPERA Meeting	Chevron Room
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Sunday 3rd September

0900-1600	WHAM Workshop	Paradise Room 1
1600-1900	Pre-Conference Registration Open	Poolside
1700-1900	Welcome Reception	Poolside

Monday 4th September

0700-0800	Buddy System Breakfast	Courtyard, Bistro On3, Level 3
0830-0920	Welcome Ms Emerald Brewer - Welcome to Country Prof Dianne Jolley & Dr Will Bennett - Conference Chairs Dr Anthony Chariton - President of SETAC Australasia Dr Ross Smith - Past President of SETAC Asia Pacific Dr Kuan-Chun Lee - President of SETAC Asia Pacific	Ballroom
0920-1020	Prof John Sumpter - Tony Roach Memorial Speaker - Improving ecotoxicology research in order to better protect the environment. <i>Plenary Chair: Dr Will Bennett</i>	Ballroom

Monday 4th September (continued)

1020-1040	Morning Tea		
	Ballroom	Paradise Room 1	Paradise Room 2
	Metal toxicity and environmental chemistry. <i>Chairs: Prof Peter Teasdale and Ms Divya Vinod</i>	Environmental analysis and monitoring. <i>Chairs: Dr Andrew Harford and Dr Kathryn Berry</i>	Per-and polyfluorinated alkyl substances (PFAS): fate and effects. <i>Chairs: Dr Kathryn Hassell and Mr Drew Szabo</i>
1040-1100	Dynamics of metallothionein induction in the freshwater shrimp <i>Paratya australiensis</i> exposed to continuous or pulsed metal mixtures - <i>Dr Peter Bain</i>	Analytical strategies for sensitive measurement of glyphosate and polar pesticides in water - <i>Dr Tarun Anumol</i>	Depuration of perfluoroalkyl substances from the edible tissues of wild-caught invertebrate and fish species - <i>Dr Janina Beyer-Robson</i>
1100-1120	Laterite associated waters: what the lack of major ions means to trace element bioavailability and toxicity - <i>Dr Marie Bigot</i>	Identification of emerging contaminants in a dynamic aquatic ecosystem using high resolution accurate mass LC/MS, chemometrics and statistical analysis - <i>Dr Tarun Anumol</i>	Validation of soil leaching protocols for determining PFAS mobility in soils - <i>Dr Janina Beyer-Robson</i>
1120-1140	Toxicity of terrestrial contaminants to the Antarctic soil nematode <i>Plectus murrayi</i> - <i>Ms Kathryn Brown</i>	An issue that wont degrade: microplastic contamination in coral reef environments - <i>Dr Kathryn Berry</i>	Assessment of PFAS effects on stock welfare and productivity - <i>Ms Tarah Hagen</i>
1140-1200	Updating the ANZECC water quality guidelines for copper and zinc - <i>Dr Jennifer Gadd</i>	Trace element contaminant uptake in phytocap vegetation and implications for koala habitat, Lismore, Northern NSW - <i>Ms Kate Bradshaw</i>	Dietary bioaccumulation of per-and polyfluorinated alkyl substances (PFAS) in a small estuarine fish, the blue spot goby (<i>Pseudogobius</i> sp.) - <i>Dr Kathryn Hassell</i>
1200-1220	Examination of transformation/dissolution characteristics of nickel lateritic ores for aquatic hazard classification and risk assessment - <i>Dr Emily Garman</i>	Accurate determination of titanium dioxide nanomaterials (nTiO ₂) in environmental matrices - <i>Ms Nazanin Nikoo Jamal</i>	
1220-1310	Lunch		
1310-1350	Prof Scott Smith - Importance of DOC for metals bioavailability: a geochemist's perspective <i>Plenary Chair: Dr Alecia Holland</i>		Ballroom
	Ballroom	Paradise Room 1	Paradise Room 2
	Metal toxicity and environmental chemistry. <i>Chairs: Prof Peter Teasdale and Ms Divya Vinod</i>	Environmental analysis and monitoring. <i>Chairs: Dr Andrew Harford and Ms Elissa O'Malley</i>	Per-and polyfluorinated alkyl substances (PFAS): fate and effects. <i>Chairs: Dr Kathryn Hassell and Mr Drew Szabo</i>
1350-1410	Toxicity of dissolved Barium to a freshwater alga (<i>Chlorella</i> sp. 12) and water Flea (<i>Ceriodaphnia dubia</i>) - <i>Dr Lisa Golding</i>	Characterising the molecular interactions between hydrophilic contaminants and a polymeric sorbent with the aid of computational chemistry - <i>Ms Christine Close</i>	Sorption and mobility of PFASs in Australian soils: how little do we know? - <i>Dr Rai Kookana</i>
1410-1430	Primer development for soil carbon anhydrase monitoring - <i>Dr Eun Hea Jho</i>	An in situ, time-integrated approach to measuring dissolved and particulate contaminants in aquatic environments - <i>Mr Nicholas Dorian</i>	Adsorption of PFOA using graphene-based materials - <i>Ms Supriya Lath</i>
1430-1450	Preliminary assessment of surface soil metal concentrations in Melbourne, Australia - <i>Dr Mark Laidlaw</i>	Chemical monitoring during flood in an ultramafic watershed (Koniambo Massif New Caledonia) - <i>Mrs Christine Laporte</i>	Uptake of poly-and perfluorinated substances by terrestrial plants - a review - <i>Dr Mike McLaughlin</i>
1450-1510	Lead bioaccumulation in a native freshwater fish, the flathead gudgeon (<i>Philypnodon grandiceps</i>) following dietary exposure to a contaminated food source - <i>Ms Sarah McDonald</i>	Cumulative ecological risk assessment for the rehabilitation of the Ranger uranium mine - <i>Dr Andrew Harford</i>	Transport and fate of per-and poly-fluoroalkyl substances (PFAS) in groundwater in Greater Melbourne - <i>Mr Drew Szabo</i>

Monday 4th September (continued)

1510-1530	Afternoon Tea		
	Ballroom	Paradise Room 1	Paradise Room 2
	Metal toxicity and environmental chemistry. <i>Chairs: Prof Peter Teasdale and Ms Megan Gillmore</i>	Environmental analysis and monitoring. <i>Chairs: Dr Andrew Harford and Ms Elissa O'Malley</i>	Per-and polyfluorinated alkyl substances (PFAS): fate and effects. <i>Chairs: Dr Kathryn Hassell and Mr Drew Szabo</i>
1530-1550	Developing predicted no effect concentrations for nickel in South East Asia and Melanesia - <i>Dr Graham Merrington</i>	The comparative effects of a biological (Metarhizium acridum) and a chemical (Fipronil) pesticide on arid-zone grassland ecosystems - <i>A/Prof Grant Hose</i>	Remediation of per-and poly-fluoroalkyl substances (PFAS) - An industry perspective - <i>Dr Danielle Toase</i>
1550-1610	How different can it be? Impact of region-specific methodology on the environmental quality standard of nickel - <i>Dr Chris Schlekot</i>	Particle size distribution and metal content of suspended particulate matter in river and coal mine-affected water from the Fitzroy River Basin, Central QLD, Australia - <i>Mrs Catherine Jones</i>	Identifying Sources of PFAS to the Yarra River (Melbourne, Australia) - <i>Dr Bradley Clarke</i>
1610-1630	Analysis of metal concentration and distribution in surface sediments within the Ramsar listed Gippsland lakes, Victoria, Australia - <i>Mr Adam Trewarn</i>	PSII-inhibiting herbicides vs. alternate pesticides in Great Barrier Reef catchments - <i>Ms Olivia King</i>	The sorption of PFOA in Australian soils - <i>Ms Emma Knight</i>
1630-1650	Effects of nickel and copper on tropical marine and freshwater microalgae: investigating different isolates and multispecies bioassays - <i>Ms Merrin Adams</i>	Has sediment remediation in Homebush Bay reduced the concentrations of dioxins in fish and prawns from Sydney Harbour, Australia? - <i>Dr Kate Langdon</i>	
1650-1710	Investigating the mobilisation of trace metals and oxyanions in contaminated marine sediment using a combined DEG-DGT technique - <i>Ms Nadeeka Suranganee Rathnayake Kankanamge</i>		
1710-1830	Poster session and afternoon drinks		
1745-1845	SETAC Australasia AGM (All welcome)		
1930-2100	Student Function		Hideaway Kitchen & Bar, 2657 Gold Coast Hwy, Broadbeach

Tuesday 5th September

0830-0910	Associate Prof Susan Bengtson Nash - When Noise Becomes a Signal; Using Persistent Organic Pollutants to Monitor Change in the Antarctic Sea-Ice Ecosystem Ballroom <i>Plenary Chair: Dr Steven Melvin</i>		
	Ballroom	Paradise Room 1	Paradise Room 2
	Emerging ecotoxicological techniques and test methods. <i>Chairs: Dr Jason van de Merwe and Mr Jarrad Baker</i>	Environmental management. <i>Chairs: Dr Louis Tremblay and Mr Tim Remaili</i>	Marine Ecotoxicology and Chemistry. <i>Chairs: A/Prof Susan Bengtson-Nash and Mr Nicholas Doriean</i>
0910-0930	Establishment of marine wildlife cell cultures for toxicity testing - <i>Dr Jason van de Merwe</i>	Further refinements to the methods for deriving Australian and New Zealand water quality guideline values for toxicants - <i>Dr Graeme Batley</i>	The impacts of suspended sediments on coral fertilisation - pathways, thresholds, and risk probabilities - <i>Mr Gerard Ricardo</i>
0930-0950	Combining in vitro techniques and non-targeted omics to discover new biomarkers and enhance non-destructive monitoring of adverse effects of contaminants on wildlife - <i>Ms Steph Chaousis</i>	Longitudinal effects of metal oxide engineered nanomaterials for the remediation of arsenic (As) and lead (Pb) contaminated soils - <i>Dr Elliott Duncan</i>	From sediment chemical status to risk evaluation in the context of the water framework directive using different lines of evidences: biology, chemistry and ecotoxicology - <i>Dr Iratxe Menchaca</i>
0950-1010	Validating bioanalytical approaches for screening chemical mixture exposure in whole blood of sea turtle populations from the Great Barrier Reef - <i>Ms Gulsah Dogruer</i>	Weight of evidence evaluations to inform water quality guideline values: Case studies using magnesium from Northern Australia - <i>Dr Chris Humphrey</i>	Impacts of nickel on different life stages of corals - <i>Ms Francesca Gissi</i>
1010-1030	Assessing differences in marine turtle organ sensitivity using cell-based toxicity assays - <i>Ms Kimberly Finlayson</i>		Calcareous electrochemical precipitation, a new method to trap dissolved metallic pollutants in seawater - <i>Dr Peggy Gunkel-Grillon</i>
1030-1050	Morning Tea		
	Ballroom	Paradise Room 1	Paradise Room 2
1050-1110	Determining the toxicity of nickel in whole-sediment to tropical marine biota: test development and sensitivity- <i>Ms Megan Gillmore</i>	The new Australian and New Zealand guidelines for fresh and marine water quality website - <i>Dr Angela Slade</i>	Risk assessment of harmful substances from petroleum activities into the marine environment - <i>Dr Richard Mohan</i>
1110-1130	Is virtual curtain technology superior to lime for treating acidic, metalliferous mine waste waters? - <i>Ms Monique Binet</i>	Ecologically relevant pesticide targets for the Reef Water Quality Protection Plan 2017 - <i>Dr Rachael Smith</i>	Characterisation of artisanal mine waste on Buru Island, Indonesia and toxicity to the brittle star <i>Amphipholis squamata</i> - <i>A/Prof Amanda Reichelt-Brushett</i>
1130-1150	Re-thinking ecotoxicology paradigms in the omics era - <i>Dr Steven Melvin</i>	Development of a national strategy to manage emerging organic contaminants in New Zealand - <i>Dr Louis Tremblay</i>	Effects of herbicide degradation products on growth and photosynthetic efficiency in a benthic jellyfish - <i>Dr Shelley Templeman</i>
1150-1210	The importance of selecting an appropriate pH buffering method during toxicity testing - <i>Dr Ceiwen Pease</i>	How specific is site-specific? Guidance for selecting and evaluating approaches for deriving site-specific water quality guideline values - <i>Dr Rick van Dam</i>	The phototoxic effects of hydrocarbon fuels on coral larval settlement - <i>Ms Mikaela Nordborg</i>
1210-1230	The effect of sterilisation methods to remove background organisms prior to performing a whole-sediment chronic algal bioassay - <i>Dr David Spadaro</i>	A growing field: Selenium uptake in plant proteins determines suitability for mine site remediation - <i>Ms Divya Vinod</i>	
1230-1300	Lunch		
1300-1330	Formal Poster session		

Tuesday 5th September (continued)

1330-1410	Dr Charlotte Nys - Metal mixture toxicity, towards an evidence-based environmental risk assessment <i>Plenary Chair: Dr Anthony Chariton</i>			Ballroom
	Ballroom	Paradise Room 1	Paradise Room 2	
	Emerging ecotoxicological techniques and test methods. <i>Chairs: Dr Jason van de Merwe and Mr Jarrad Baker</i>	The role of natural organic matter in environmental toxicology and chemistry. <i>Chairs: Dr Aleicia Holland and Ms Farzana Kastury</i>	Marine Ecotoxicology and Chemistry. <i>Chairs: A/Prof Susan Bengston-Nash and Mr Nicholas Doreian</i>	
1410-1430	Metabarcoding of benthic communities to determine the sediment toxicity of bifenthrin - <i>Ms Sarah Stephenson</i>	Australian tropical dissolved organic carbon ameliorates copper toxicity in tropical freshwater algae - <i>Ms Gabriella Macoustra</i>	PCDD/F levels in different tissues from dugongs (Dugong dugon) inhabiting the Queensland coastline - <i>Dr Soumini Vijayasarathy</i>	
1430-1450	Synchrotron-based imaging reveals the fate of selenium in striped marsh frog tadpoles - <i>Dr Chantal Lanctot</i>	Dissolved organic carbon composition differs between different Australian freshwaters and climatic regions - <i>Dr Aleicia Holland</i>	Turtle Time Machines; How Scutes can help us evaluate temporal trends for trans element exposure investigations - <i>Mr Cesar Alexander Villa</i>	
1450-1510	Chronic toxicity of ammonia to the tropical freshwater mussel <i>Velesunio</i> spp - <i>Ms Linda Kleinhenz</i>	Extreme water quality events: Changes in organic matter profiles and impacts on other water quality parameters - <i>Dr Julia Howitt</i>		
1510-1525	Afternoon Tea			
	Ballroom	Paradise Room 1	Paradise Room 2	
	Human health issues associated with environmental contaminants. <i>Chairs: Dr Peta Neale and Mr Brett Knowles</i>	Toxicity of mixtures and multiple stressors. <i>Chairs: Dr Charlotte Nys and Mr Darren Koppel</i>	Environmental analysis and monitoring. <i>Chairs: Dr Chris Humphrey and Mr Cesar Alexander Villa</i>	
1525-1545	Environmental exposure to asbestiform minerals: A multidisciplinary approach to the hazard evaluation - <i>Dr Elena Gazzano</i>	On the use of DGT to predict metal mixture toxicity to two Antarctic marine microalgae - <i>Mr Darren Koppel</i>	Design and use of environmental report cards - <i>Dr Jenny Stauber</i>	
1545-1605	Conservative inhalation metal(loid) bioaccessibility (CIMB) method using PM10 and simulated lung fluid (SLF) - <i>Mrs Farzana Kastury</i>	Cumulative impacts: thermally bleached corals have reduced capacity to clear deposited sediment - <i>Ms Pia Bessell-Browne</i>	Hypersaline sediments: Toxicity, multiple stressors and management - <i>Mr Timothy Remaili</i>	
1605-1625	Are those fish safe to eat? Accumulation of Nodularin in commercial and recreationally relevant fish species - <i>Dr Jackie Myers</i>	Coral reef ecotoxicology in a changing climate - <i>Dr Andrew Negri</i>	Using wastewater analysis to find population and demographic markers in wastewater - <i>Dr Jake O'Brien</i>	
1625-1645	In vitro assessment of soil arsenic metabolism by human gut microbiota - <i>Mr Naiyi Yin</i>	Toxicity of mining contaminant mixtures to tropical freshwater species - <i>Dr Andrew Harford</i>	Analysis of multiclass UV filters in wastewater by LC-MS/MS - <i>Ms Elissa O'Malley</i>	
1645-1705	Human Exposure to Legacy and Novel Brominated Flame Retardants via Contaminated Indoor Dust in Melbourne, Australia - <i>Mr Thomas McGrath</i>	Acute and chronic toxic effects of microplastic beads and fibres on crustacean <i>Ceriodaphnia dubia</i> : single and mixture exposure scenarios - <i>Mrs Shima Ziajahromi</i>	A new and simple dry separation of PM10 from mining soils for Ni, Co and Mn bioavailability study by kinetic extractions - <i>Dr Peggy Gunkel-Grillon</i>	
1705-1725		SETAC Honours Thesis Award Winner Toxicity of herbicides in Northern Queensland catchments to tropical microalgae? - <i>Ms Sarah Stone</i>		
1830-2230	Conference Awards Dinner			Coaches depart for SkyPoint from the Sofitel at 6.15pm

Wednesday 6th September

0850-0950	Dr Jakob Santner - Plant roots activities at the microscale: Assessing element cycling in 2D <i>Plenary Chair: Dr Will Bennett</i>			Ballroom
0950-1030	Dr Stephen Lofts - Metal speciation, fate, bioavailability and impacts in the environment: from scientific understanding to policy <i>Plenary Chair: Prof Dianne Jolley</i>			Ballroom
1030-1050	Morning Tea			
	Ballroom	Paradise Room 1	Paradise Room 2	
	Transport, fate and exposure modelling of chemicals in the environment. <i>Chairs: Dr Stephen Lofts and Ms Francesca Gissi</i>	Life Cycle Assessment. <i>Chair Delwyn Jones</i>	Environmental analysis and monitoring. <i>Chairs: Dr Andrew Harford and Ms Elissa O'Malley</i>	
1050-1110	The carbon mineralization characteristics of Victorian biosolids - <i>Mr Nihal Albuquerque</i>	Ecolabelled floorcovering and supply chain trends - <i>Mrs Shloka Ashar</i>	Comparison of sampling uncertainty between passive samplers and grab sampling in marine and estuarine waters <i>Mr Andrew Novic.</i>	
1110-1130	Prioritising the management of organic chemicals in raw sewage that could impact STP function and the quality of products re-entering the environment - <i>Dr Daryl Stevens</i>	Synthetic recycled Fibre LCA of supply chains - <i>Mr Omar Biaz</i>	Patterns of background concentrations of elements in Victorian soils and implications for environmental risk - <i>Dr Suzie Reichman</i>	
1130-1150	Including individual species' variation in SSD derivation - <i>Mrs Abigail Proctor</i>	Life cycle benefit assessment of recyclables, oil and carbon recovery - <i>Mrs Mathilde Vlieg</i>	Development of Raman spectroscopy based methods for the detection of environmental pollutants - <i>Mr Timothy Ong</i>	
1150-1210	Metal stable isotopes: a powerful tracer for biomedical research and environmental monitoring. - <i>Dr Faye Liu</i>		Spatial differences in illicit drug use in Australia's capital and regional areas; initial results from the National Wastewater Drug Monitoring Program - <i>Dr Ben Tscharke</i>	
1210-1230	Synchrotron-derived crystal-chemistry of nickel in the coastal landscape of New Caledonia - <i>Dr Farid Juillot</i>		Interlaboratory study on the analysis of short chain chlorinated paraffins - <i>Ms Louise van Mourik</i>	
1230-1300	Lunch			

Wednesday 6th September (continued)

	Ballroom		
	Bioavailability and toxicity of organic and emerging chemicals. <i>Chairs: Dr Stuart Simpson and Ms Supriya Lath</i>		
1300-1320	Bioaccumulation dynamics and gene regulation in a freshwater bivalve after aqueous and dietary exposures to silver and gold nanoparticles: a comparative study - <i>Dr Adeline Arini</i>		
1320-1340	Fingerprinting the effects of individual micropollutants in a bioanalytical test battery developed for water quality monitoring - <i>Dr Peta Neale</i>		
1340-1400	Impacts of arsenic and antimony co-contamination on leafy vegetables grown in contaminated soils - <i>Mrs Lakmini Egodawatta</i>		
1400-1420	Eco-friendly keratin extraction from waste chicken feathers - <i>Ms Firoozeh Pourjavaheri</i>		
1420-1440	Seasonal toxicity observed with amphipods (<i>Eohaustorius estuarius</i>) at Paleta Creek, San Diego Bay, USA - <i>Mr Gunther Rosen</i>		
1440-1500	Remediation criteria for sediments with impacts spanning 100 years: Apportioning effects between legacy hydrocarbons and more recent metal contamination - <i>Dr Stuart Simpson</i>		
1500-1520	Do microplastics pose a risk to soil ecology? Microplastics, sorbed pollutants and earthworms - <i>Dr Bradley Clarke</i>		
1520-1540	Afternoon Tea		
1540-1640	Conference Close & Student Awards Presentations		Ballroom