SETAC Draft Program

Last Updated 18th June 2019

	Sunday, 7th July 2019		
1000-1600	Workshop - Prioritising Australasia's Chemicals of Concern		
1600 - 1900	Registrations Open		
1600 - 1900	Welcome Reception - Mindil Beach Markets		
	Monday, 8th July 2019		
0700 - 0800	Buddy System Breakfast		
0830 - 0920	Welcome		
0920 - 1020	**Plenary Speaker - Emma Johnston "Science for policy and places: how to ensure environmental research has an impact"**		
1020 - 1040	Morning Tea		
Session Theme	Waterfront 2 & 3	Waterfront 1	Meeting Room 4
	Frontiers in metals risk assessment – sponsored by MERA	**New developments in ecotoxicology**	**Indigenous Knowledge and Values: Collaborating with Australasian Science - sponsored by GHD**
1040 - 1100	Life in a warmer more acidic World: Physiological implications of climate change on metal toxicity to aquatic organisms - *Kevin Brix*	Lessons learnt from the derivation of default guideline values for over 30 toxicants for Australia and New Zealand - *Rick van Dam*	Developing guidance for including Indigenous cultural and spiritual values in water quality management in Australia and New Zealand - *Bradley Moggridge*
1100 - 1120		Linking ecotoxicology and decision science: A case study using probabilistic concentration-response relationships and thresholds - *Rebecca Fisher*	Effective engagement with Bininj: The Djenj Project - *Lynley Wallis*
1120 - 1140	A research initiative to support ecological risk assessment of nickel in tropical Southeast Asia and Melanesia - *Chris Schlekat*	Mechanisms of Action scheme: A new classification of chemicals uniting toxicology and ecotoxicology - *Franklin Bauer*	Mine closure, Indigenous knowledge and values: Can the legacy of inadequate planning and regulation in the NT be overcome? - *Chris Brady*
1140 - 1200	Identifying gaps and priorities for further research on effects assessment for nickel in the tropical Southeast Asia and Melanesia (SEAM) region - *Mandy Reichelt-Brushett*	Assessing the efficacy of a sediment remediation programme using benthic and pelagic copepod bioassays - *Louis Tremblay*	CSIRO's Indigenous STEM Education Project: Lessons for incorporating Indigenous Knowledges and Values into teaching - *Amy Gulbinas*
1200 - 1220	Application of bioavailability-based approaches for the development of draft water quality guideline values for nickel in fresh and marine waters - *Jenny Stauber*	New developments in plant ecotoxicology and risk assessment - *Gertie Arts*	Discussion time
1220 - 1310	Lunch		
1310 - 1350	**Platinum Sponsor Keynote Speaker - Skefos Tsouklais "Challenges in the Northern Frontier – It's not just about Crocs"**		
Session Theme	Waterfront 2 & 3	Waterfront 1	Meeting Room 4
	Frontiers in metals risk assessment – sponsored by MERA	**New developments in ecotoxicology**	**Radiochemistry and Radioecology - sponsored by RACI and SPERA**
1350 - 1410	Case studies on the application of Biotic Ligand Models in environmental assessments - *Marie Bigot*	Sensitivity and mode of action effects of selected herbicides on *Lemna aequinoctialis* - *Shelley Templemen*	Developing international radiological risk assessment tools and approaches for Australian arid environments - *Rachel Popelka-Filcoff*
1410 - 1430	The ever changing nature of DOC: Possible implications for metals research - *Aleicia Holland*	The freshwater mussel, *Velesunio* spp., is a valuable test species for assessing the acute and chronic toxicity of contaminants in tropical environments - *Linda Klienhenz*	
1430 - 1450	Metals contamination of freshwater due to Ni opencast mines, New Caledonia - *Peggy Gunkel-Grillon*	Effects of pulse exposures on the tropical copepod *Acartia sinjiensis*: Investigating the toxicity of single contaminants - *Sarah Stone*	Increasing and streamlining the availability of environmentally relevant radioisotopes and radiotracers at ANSTO - *Leena Hogan*
1450 - 1510	Adult corals are uniquely more sensitive to manganese than coral early-life Stages - *Monique Binet*	Using ecotoxicology to assess environmental impacts of treated mine water - *Jill Woodworth*	Source of spatial variability of Polonium-210 in New Zealand shellfish and dose assessment - *Sarah Guy*
1510 - 1530	Afternoon Tea		
Session Theme	Waterfront 2 & 3	Waterfront 1	Meeting Room 4
	Managing environmental quality for on-shore oil and gas operations – sponsored by the Department of Environment and Natural Resources	**Mine Closure - sponsored by Coffey**	**Radiochemistry and Radioecology - sponsored by RACI and SPERA**
1530-1550	Code of Practice: Onshore Petroleum activities in the Northern Territory - An outcome focus on best practice - *Louis Gomatos*	How can frameworks inform water quality objectives for the closure of the Ranger mine? - *Michelle Iles*	Baseline radiation levels and trace metals in Queensland prawn species, uptake properties and radiological dose - *Peter Medley*
1550 - 1610	The Office of Water Science and onshore Gas – decorations for the Christmas tree - *Peter Baker*	McArthur River Mine closure plan - *Pyramo Marianelli*	Bioaccumulation monitoring of radionuclides and stable metals in freshwater mussels from downstream of Ranger uranium mine - *Scott McMaster*
1610 - 1630	Recommendations for ecotoxicity testing with stygobiotic species in the framework of groundwater environmental risk assessment - *Grant Hose*	A Vulnerability Assessment Framework to Evaluate the Potential Water Quality Impacts of Ranger Uranium Mine on Adjacent Receiving Environments - *Darren Richardson*	The effects of temperature and moulting on metal concentrations in decapod crustaceans - *Danielle Hill*
1630 - 1650	A screening risk assessment of drilling and hydraulic fracturing chemicals for effects on freshwater biota - *Lisa Golding*	Assessing the toxicity of aquatic contaminant mixtures and the protectiveness of water quality guideline values based on individual contaminant toxicity - *Melanie Trenfield*	Trophic Variations in Metal Accumulation by Commercially Important Clams, Prawns and Fish from a Variety of Sources - *Kaitlyn O'Mara*
1650 - 1710	Impact of hydraulic fracturing chemicals on soil quality: a laboratory study - *Mike Williams*	Social Provisioning for Mine Closure - *Tania Laurencont*	Metal pollution during pulse stormwater events: bioaccumulation kinetics of cadmium and zinc in a freshwater decapod crustacean - Sarah McDonald
1710-1730	Site selection and ground water monitoring for exploration petroleum wells in an emerging shale play in the Northern Territory - *Damian Ogburn*	TBC	Back to first principles: The importance of understanding software algorithms and examples of critically assessing applications - *John Pfitzner*
1730 - 1830	Poster session and afternoon drinks		
1930 - 2100	Student Function (The Precinct)		
	Tuesday, 9th July 2019		
0830 - 0920	**Plenary Speaker - Liesa - Maree Toms "Population trends of per- and poly-fluoroalkyl substances (PFAS) in Australia"**		
Session Theme	Waterfront 2 & 3	Waterfront 1	Meeting Room 4
	ANZG Water Quality Guidelines workshop	**Anthropogenic debris - exposure and effects**	**PFAS: environmental monitoring, effects and risks - sponsored by Eurofins**
0930 - 0950	See ANZG Water Quality Guidelines Workshop Agenda	Marine debris: sources, distribution and management implications for an urbanised estuary, Sydney Harbour - *Jessica Merrett*	Ecological risk assessment of PFAS in Australia: Considerations for Tier 1 and Tier 2 approaches - *Carolyn Brumley*
0950 - 1010		Microplastics pollution in the surface water of the Pearl River Estuaries, China - *Lei Mai*	Ecological risk assessment of PFAS at two RAAF Bases in the Northern Territory - *Adam Wightwick*
1010 - 1030		Polystyrene debris as a source of brominated flame retardant for marine organisms - *Chantal Lanctot*	Exploring the data – can we explain the variability in PFOS bioaccumulation in aquatic biota? - *Janina Beyer-Robson*
1030 - 1050	Morning Tea		
Session Theme	Waterfront 2 & 3	Waterfront 1	Meeting Room 4
	ANZG Water Quality Guidelines workshop	**Genomics for Environmental Monitoring and Protection - sponsored by Iluminia**	**PFAS: environmental monitoring, effects and risks - sponsored by Eurofins**
1050 - 1110	See ANZG Water Quality Guidelines Workshop Agenda	Next Generation Tools for Environmental Research and Monitoring - *Will Grant*	A weight of evidence approach to the evaluation of PFAS biomagnification in aquatic food chains - Kylie Dodd
1110 - 1130		Application and uptake of genomic techniques by the water industry; a WaterNSW perspective - *Lisa Hamilton*	Bioaccumulation of PFAS in surface water ecologies impacted by contamination from legacy use of AFFF firefighting foams - *Andrew Mitchell*
1130 - 1150		Responses in freshwater microbial communities to particulate copper: a mesocosm study - *Anthony Chariton*	Evaluation of PFAS accumulation in terrestrial systems - *Heather Lanza*
1150 - 1210		Metabarcoding reveals changes in benthic eukaryote and prokaryote community compositions along an estuarine sediment nickel gradient - *Megan Gillmore*	Predicting and Restricting the Mobility of Poly- and Perfluorinated Alkyl Substances in Soils - *Mike McLaughlin*
1210 - 1230		Transcriptomic, Lipid, and histological Profiles suggest Changes in Health in Fish from a Pesticide Hot Spot - *Sharon Hook*	Bioaccumulation of PFAS in Terrestrial Biota in Areas impacted by Contamination from Legacy use of AFFF Firefighting Foams - *Karl Bowles*
1230 - 1300	Lunch		
1300 - 1330	Formal Poster Session		
1330 - 1410	**Keynote Speaker - Jing You "Diagnosis of complex mixture toxicity in sediment using an integrated method of TIE and EDA: a case study in Guangzhou, China"**		

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	ANZG Water Quality Guidelines workshop	**Environmental Concentrations and Impacts of UV Filters - sponsored by ACCORD and PCPC**	**PFAS: environmental monitoring, effects and risks - sponsored by Eurofins**
1410 - 1430	See ANZG Water Quality Guidelines Workshop Agenda	Estimating input into and release of UV filters from Australian WWTPs into the aquatic environment - *Elissa O'Malley*	Perfluorooctane sulfonate effects on the colony dynamics of the European honey bee - *Carolyn Sonter*
1430 - 1450		Environmental Monitoring of UV filters around coral reefs in Hawaii - *Carys Mitchelmore*	Assessment of PFAS distribution and elimination in sheep and cattle - *Clare Death*
1450 - 1510		Assessing the Environmental Risk Posed by UV Filters to Coral within a Holistic Assessment of Anthropogenic Coral Stressors - *Iain Davies*	Analysing PFAS in Fish and Crustacean using QuEChERS and LC-MS/MS - *Robert Symons*
1510-1530		Discussion on the risk of UV filters to marine environments	Investigation into the mass-fluxes and discharge of wastewater treatment plant derived PFAS in the marine environment - *Tim Coggan*
1530-1545	Afternoon Tea		
Session Theme	Waterfront 2 & 3	Waterfront 1	Meeting Room 4
	ANZG Water Quality Guidelines workshop	**Impacts of contaminants on terrestrial fauna**	**Multiple Lines Of Evidence and using Weight of Evidence approaches**
1545 - 1605	See ANZG Water Quality Guidelines Workshop Agenda	Manganese toxicity: physiological and performance deficits in an endangered mammal - *Skye Cameron*	Development of multiple lines of evidence monitoring tools for ecological assessment - *Claudette Kellar*
1605 - 1625		How Safe are Your Backyard Chickens and Eggs from Legacy Pollution? - *Suzie Reichman*	Site specific risk assessment of seepages from fuel spill sites on land into the nearshore marine environment at subantarctic Macquarie Island - Catherine King
1625 - 1645		Impact of pollution in the Arctic on avian influenza prevalence and miRNA-155 expression in breeding seabirds - *Courtney Waugh*	Understanding toxicant risks in the Western Port environment using multiple lines of evidence - *Jackie Myers*
1645 - 1705		Effects of weathering on toxicity of fuel contaminated soil: Implications for derivation of Remediation Targets for Antarctic soils - *Kathryn Brown*	Anatomy of a region wide sampling program - *Amie Anastasi*
1705 - 1800	**SETAC-AU - Biennial General Meeting**		
1830 - 2230	Conference Dinner (PeeWees Restaurant)		
	Wednesday, 10th July 2019		
0900 - 1000	**Plenary speaker - Will Clements "Integrating mesocosm experiments and field data to validate water quality criteria for contaminants in aquatic ecosystems"**		
Session Theme	Waterfront 2 & 3	Waterfront 1	Meeting Room 4
	New developments in environmental chemistry	**Novel and rapid biomonitoring techniques and field sampling**	**Speciation and bioavailability of contaminants**
1000-1020	Chemical characterisation and leachability of contaminants from mixed waste organic outputs from alternative waste treatment facilities in NSW - *Andrew Symons*	Use of emerging technologies to optimise biomonitoring programs: A case study - *Andrew Jansen*	Application of macrofauna bioturbation for contaminant bioremediation in sediments: a review and meta-analysis - *Sebastian Vadillo Gonzalez*
1020-1040	Towards Improved Modeling of Pesticide Volatilization: Using Measured Soil-Air Partition Coefficients of Commercial Formulation in a Pesticide Volatilization Model - *Supta Das*	Exposure durations, hyporheic effects and 'boom-bust' communities: WQOs for highly ephemeral, tropical streams - *Chris Williams*	Bioturbation in metal contaminated sediments results in contrasting toxic effects and misleading interpretation of the AVS-SEM paradigm - *Timothy Remaili*
1040-1100	How are synthetic pyrethroids used in termite control transported to local waterbodies? - *Vincent Pettigrove*	Assessing the response of the groundwater communities to minewater impacts in a seasonal sandy stream in the wet-dry tropics - *Lisa Chandler*	Ecotoxicity and Biogeochemical assessment of deep-sea mine site sediments - *Chris Hickey*
1100 -1120	Morning Tea		
Session Theme	Waterfront 2 & 3	Waterfront 1	Meeting Room 4
	Passive samplers: From R&D to a common environmental quality management tool - Sponsored by CDM Smith	**Novel and rapid biomonitoring techniques and field sampling**	**Speciation and bioavailability of contaminants**
1120-1140	Use of Passive Sampling in Ecological Risk Assessment and Restoration Projects - *Dan Cooke*	Using wild marsupials to identify the source of manganese contamination on Groote Eylandt, NT - Kaylah Del Simone	Antimony and arsenic bioaccumulation and biotransfer in food webs of an Australian river catchment - *Susan Wilson*
1140-1200		Metabolite profiles in midges are associated with sediment contamination in urban wetlands - *Sara Long*	Influence of phosphate containing fertilizers on the growth of choy sum and uptake of As and Sb in contaminated soils - *Lakmini Egodawatta*
1200-1240	The case for valuing representativeness more highly when monitoring waterways: DGT measurements as an example - *Peter Teasdale*	Differential inhibition of nitrifying bacteria emphasises the importance of community-wide monitoring during biostimulation - Sally Crane	Crystal-chemistry of Fe, Ni, Cr and Mn in lagoon sediments under anthropogenic forcing: A comparative study in New Caledonia - *Farid Juillot*
1240-1300	From laboratory to field-based application of DGTs for assessment of risk posed by metals in sediments - *Stuart Simpson*	Detecting effects of herbicide runoff: the use of Cassiopea maramatens as a biomonitor to hexazinone - *Madeline McKenzie*	Legacy effects of historical gold mining on floodplains of Victorian rivers - *Francesco Colombi*
1300-1320	Lunch		
1320-1400	**Keynote Speaker - Teri Myers "Pesticide risk assessment: Shared challenges require shared solutions"**		
Session Theme	Waterfront 2 & 3	Waterfront 1	Meeting Room 4
	Passive samplers: From R&D to a common environmental quality management tool - Sponsored by CDM Smith	**Emerging contaminants, micropollutants and endocrine disrupting chemicals**	**Managing environmental quality for marine oil and gas operations - sponsored by the Department of Environment and Natural Resources**
1400-1420	Diffusive Gradients in Thin-Films (DGTs) – monitoring tools for ecological risk assessment - *Kirsten Broadgate*	Key findings from the 2018 Black Mountain Workshop on Environmental Contaminants in Australasia - *Anu Kumar & Glen Walker*	The pros and cons of modelling toxicity thresholds for petroleum hydrocarbon pollution in the marine environment - *Andrew Negri*
1420-1440	The use of automatic samplers combined with DGT for regulatory monitoring in the New Caledonian Lagoon - *Benjamin Moreton*	A preliminary ecological and human health risk assessment for contaminants in mixed waste organic outputs from alternative waste treatment facilities in New South Wales - *Kate Langdon*	Toxicity of produced waters, condensate and crude oil to marine invertebrates and fish following short exposures - *Francesca Gissi*
1440-1500	Integrating DGT and ecotoxicology for metal-contaminant risk assessment in the Antarctic marine environment - *Darren Koppel*	Sex on steroids: Widespread endocrine disruptor impairs mechanisms of sexual selection in fish - *Bob Wong*	The effects of crude oil and dispersant on the larval sponge holobiont - *Heidi Luter*
1500-1520	Monitoring metal contaminants in tropical Australian coastal seawater using diffusive gradients in thin films - *Jeffrey Tsang*	Pharmaceutical alters mate choice and gene expression of a fish - *Minna Saaristo*	Proposed approach to assess the likely risk of impact to marine biota from scale-contaminated offshore pipelines - *Tom Cresswell*
1520-1540	Passive sampler for ammonia pollution monitoring in seawater - *Lenka O'Connor*	Has exposure to Endocrine Disrupting Chemicals affected thyroid function in flesh-footed shearwaters on Lord Howe Island? - *Dayanthi Nugegdoa*	Cumulative effects of heavy fuel oil and UV radiation across multiple life stages of coral - *Mikaela Nordborg*
1540-1600	Afternoon Tea		
1600-1700	Conference close & Student Awards Presentations		
	Thursday, 11th July 2019		
900-1500	Workshop - PFAS risk assessment and remediation		