

# 13th Australasian Society for Ecotoxicology Conference Toxicants in a changing environment

20-23 September 2009 | Adelaide | South Australia



Union House | The University of Adelaide



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# Monday 21st September 2009



7:30	9:00	Registration open (Equinox room)	
9:00	9:30	Opening ceremony (Eclipse Room)	
9:30	10:30	<b>Keynote - <a href="#">Dr Jenny Stauber - Contaminants in aquatic systems in a changing climate</a></b> (Eclipse Room) Chair: Dr Anu Kumar	
10:30	11:00	Morning tea (Equinox room)	
	<b>Location</b>	<b>Margaret Murray Room</b>	<b>Eclipse Room</b>
	<b>Session</b>	<b>Climate change and ecosystem impacts</b>	<b>New developments - I</b>
	<b>Session Chair</b>	Dr Jenny Stauber	Prof. Allen Burton
11:00	11:20	<a href="#">Johnston - Contaminants reduce the richness and evenness of marine communities: A review and meta-analysis</a>	<a href="#">Young - Development of a novel in vitro endocrine disrupting compound (EDC) screening assay</a>
11:20	11:40	<a href="#">Melville - Ecological effects of warmer water temperatures in a Central Queensland river - Potential implications for climate change</a>	<a href="#">Myers - Uptake and depuration of Nodularin in seafood species: A human health risk assessment</a>
11:40	12:00	<a href="#">Johnston - Contemporary ecological threats from historical pollution sources: experimental and real world resuspension of contaminated sediments</a>	<a href="#">Taylor - Cadmium Exposure – Dose – Response Relationships and Toxicity in <i>Tellina deltoidalis</i></a>
	<b>Session</b>	<b>Hydrocarbon ecotoxicology and remediation</b>	
12:00	12:20	<a href="#">Mooney - Soil invertebrate community response to petroleum hydrocarbon contaminants in sub-Antarctic soils over an organic carbon gradient</a>	<a href="#">Casten - Relevance of milkfish (<i>Chanos Chanos</i>) as a tropical marine species for acute and chronic effect studies in eco-toxicology</a>
12:20	12:40	<a href="#">Wasley - Phytoremediation of hydrocarbon contaminants in sub-Antarctic soils</a>	<a href="#">Sfiligoj - Evaluation of pollutant induced stress in Australian grapsid crab, <i>Cyclograpsus granulatus</i>, by neutral red dye retention assay</a>
12:40	13:00	<a href="#">Colville - Use of Lemna toxicity tests to evaluate Fenton oxidation cleanup of the herbicide metsulfuron methyl from water</a>	<a href="#">Smith - Fluorescence fingerprinting: fast, accurate and cost-effective herbicide identification</a>
13:00	14:00	Lunch (Equinox room)	

Location	Margaret Murray Room	Eclipse Room
Session	Soil and sediment ecotoxicology	New developments - II
Session Chair	Vin Pettigrove	Prof. Steve Klaine
14:00 14:20	<a href="#">McLaughlin - Recommendations of the SETAC Pellston Workshop on deriving ecological soil quality standards</a>	<a href="#">Doyle - Assessing the quality of sea urchin sperm using flow cytometry: an ecotoxicological perspective</a>
14:20 14:40	<a href="#">O'Brien - Spatial and temporal variability of sediment contaminants in freshwater streams and wetlands</a>	<a href="#">Sanchez-Bayo - Moving forward in toxicity testing – TTE bioassays and reproduction endpoints</a>
14:40 15:00	<a href="#">Williams - Assessment of ecotoxicology of carbamazepine in sediments using the freshwater midge, <i>Chironomus tepperi</i></a>	<a href="#">Vincent - Using the larvae of the freshwater mussel <i>V. ambiguus</i> for toxicity testing</a>
15:00 15:20	<a href="#">Mann - A rapid amphipod reproduction test for sediment quality assessment: In situ bioassays do not replicate laboratory bioassays</a>	<a href="#">Schafer - Using traits of aquatic invertebrates to identify impacts of pesticides and salinity</a>
15:20 15:40	Afternoon tea (Equinox room)	
15:40 16:30	5 minute poster snap shots (Margaret Murray Room)	
16:30 17:30	<a href="#">Keynote speaker - Dr Allen Burton - Linking sediment contamination with ecologically relevant impacts (Eclipse Room)</a> Chair: Dr Graeme Batley	
17:30 18:30	Poster session and Happy hour (Equinox Room)	
19:00 21:00	Student Mixer (Harry Medlin Rooms)	



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## Tuesday 22nd September 2009



8:00	9:00	Registration open (Equinox room)	
	<b>Location</b>	<b>Margaret Murray Room</b>	<b>Eclipse Room</b>
	<b>Session</b>	<b>Nanomaterials</b>	<b>Desalination ecotoxicology</b>
	<b>Session Chair</b>	Dr Jason Kirby	Dr Ross Smith
9:00	9:20	<a href="#">Milani - Zinc diffusion and speciation in an alkaline-calcareous soil treated with fertilisers coated with bulk and nanoparticulate zinc</a>	<a href="#">Hobbs - Ecotoxicity of discharge from seawater desalination plants– an Australian experience</a>
9:20	9:40	<a href="#">Shareef - Quantitative determination of fullerene (nC60) in soils by high performance liquid chromatography and accelerated solvent extraction techniques</a>	<a href="#">Warne - Determining a 'safe' dilution factor for the hypersaline brine discharge from the proposed desalination plant associated with the Olympic Dam mine expansion</a>
	<b>Session</b>	<b>Modelling</b>	<b>Environmental chemistry of chemicals - I</b>
9:40	10:00	<a href="#">Iero - The exposure-dose-response framework in ecological risk assessment of contaminated sediments</a>	<a href="#">de Livera - Cadmium solubility in paddy soils: effects of variable redox conditions and competitive ions</a>
10:00	10:20	<a href="#">Marshall - Field microcosm bioassays as a diagnostic tool for urban stream management</a>	<a href="#">Langdon - Degradation of selected organic compounds following land application of biosolids in South Australia</a>
10:20	11:00	Morning tea (Equinox room)	
	<b>Session</b>	<b>Integrating molecular to ecosystem level effects - I</b>	<b>Environmental chemistry of chemicals - II</b>
	<b>Session Chair</b>	Prof. Dayanthi Nugegoda	Dr Rick Krassoi
11:00	11:20	<a href="#">Kumar – Approaches to assess endocrine disruption in the Australian riverine environment</a>	<a href="#">Oliver - Mode of off-site transport of pesticides from three land uses in the Mt. Lofty Ranges, South Australia</a>
			<b>Chemical speciation and bioavailability - I</b>
11:20	11:40	<a href="#">MacFarlane - Molluscan biomonitor for quantification and impact assessment of estrogenically active compounds in Australian marine ecosystems</a>	<a href="#">Adams - Using synchrotron x-ray fluorescence mapping and x-ray absorption spectroscopy to study copper uptake in microalgal cells</a>
11:40	12:00	<a href="#">Wilson - R.I.P TBT: Tales from the dead</a>	<a href="#">Houston - Amelioration of uranium toxicity by dissolved organic carbon from a tropical Australian billabong</a>
12:00	13:00	<b>Keynote - <a href="#">Prof. Beate Escher - Do we need to assess the environmental risk of transformation products?</a> (Eclipse Room)</b> Chair: Dr Michael Warne	
13:00	14:00	Lunch (Equinox Room)	

Location	Margaret Murray Room	Eclipse Room
Session	Integrating molecular to ecosystem level effects - II	Chemical speciation and bioavailability - II
Session Chair	Prof. Beate Escher	Prof. Bill Maher
14:00 - 14:20	<a href="#">Hassell</a> - Variation in histological appearance of black bream gonads sampled from five Victorian estuaries	<a href="#">Nugegoda</a> - Biomonitoring ecosystem recovery after decontamination of a contaminated site using earthworms
14:20 - 14:40	<a href="#">Toogood</a> - The effect of p,p-DDE on plasma thyroid hormone levels in juvenile <i>Acanthopagrus butcheri</i>	<a href="#">Van Dam</a> - Uranium speciation and toxicity following chronic exposure to the tropical freshwater fish, <i>Mogurnda mogurnda</i>
14:40 - 15:00	<a href="#">Inglis</a> - Passage effect on MCF-7 and T47-D cells for use in the E-screen	<a href="#">Wen</a> - Investigating the use of rhamnolipid for cadmium phytoextraction in soils
15:00 - 15:20	<a href="#">Lang</a> - Developing an assay to assess the effects of contaminants (CYN & EE2) on mammalian development	<a href="#">Anderson</a> - Transplanted oysters, DGT and water grab samples: An application in monitoring industrial receiving waters
15:20 - 15:40	<a href="#">Hickey</a> - Catchment studies in Georges Bay, Tasmania: base-flow water and foam toxicity to cladocerans and blue-mussels	<a href="#">Mortimer</a> - The use of passive samplers in a regulatory context – to what extent is this methodology being adopted?
15:40 - 16:00	Afternoon tea (Equinox room)	
16:00 - 18:00	ASE Annual General Meeting (Eclipse Room)	
19:00 - 23:00	Conference dinner (National Wine Centre)	

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## Wednesday 23rd September 2009



8:00	9:00	Registration open (Equinox room)	
	<b>Location</b>	<b>Margaret Murray Room</b>	<b>Eclipse Room</b>
	<b>Session</b>	<b>Multiple stressors &amp; General Ecotoxicology</b>	<b>Environmental Quality Guidelines - I</b>
	<b>Session Chair</b>	Dr Munro Mortimer	Dr Rick Van Dam
9:00	9:20	<a href="#">Jeppe</a> - Isolating the effects of sediment pollution from physical factors in an urban stream	<a href="#">Chapman</a> - International experience in incorporating bioaccumulation into water quality guidelines.
9:20	9:40	<a href="#">Long</a> - Chemical exposure and drought stress interactions on <i>Lumbricus rubellus</i> survival and reproduction	<a href="#">Hogan</a> - Effects of Mg pulse exposures on tropical freshwater Australian species
9:40	10:00	<a href="#">Townsend</a> - Sediment quality in the River Murray and its effects on benthic macroinvertebrates	<a href="#">Harford</a> - The development of water quality guidelines for suspended sediments in Magela Creek
10:00	10:20	<a href="#">Reichelt-Brushett</a> - Ecotoxicity testing of a slightly soluble natural product	<a href="#">Strom</a> - Development of a sediment quality guideline for copper
10:20	10:40	Morning tea (Equinox room)	
10:40	11:40	<b>Keynote - <a href="#">Prof. Steve Klaine</a> - Nanomaterials in aquatic ecosystems: Relating particle characteristics to biological effects (Eclipse Room)</b> Chair: Dr Mike McLaughlin	
	<b>Location</b>	<b>Eclipse Room</b>	
	<b>Session</b>	<b>Environmental Quality Guidelines - II</b>	
	<b>Session Chair</b>	Dr John Chapman	
11:40	12:00	<a href="#">Kookana</a> - Triclosan: Its occurrence, fate and effects in the Australian environment	
12:00	12:20	<a href="#">Batley</a> - Errors in the application of species sensitivity distributions	
12:20	12:40	<a href="#">Fox</a> - Bayesian methods for determining hazardous concentrations in ecotoxicology	
12:40	13:00	<a href="#">Warne &amp; Van Dam</a> - 101 reasons to stop generating and using hypothesis based toxicity estimates – NOECs and LOECs should be banned	
13:00	13:15	Closing Ceremony (Eclipse Room)	
	13:15	Lunch (Equinox room)	
13:30	14:30	EDC SIG Meeting (Eclipse Room)	



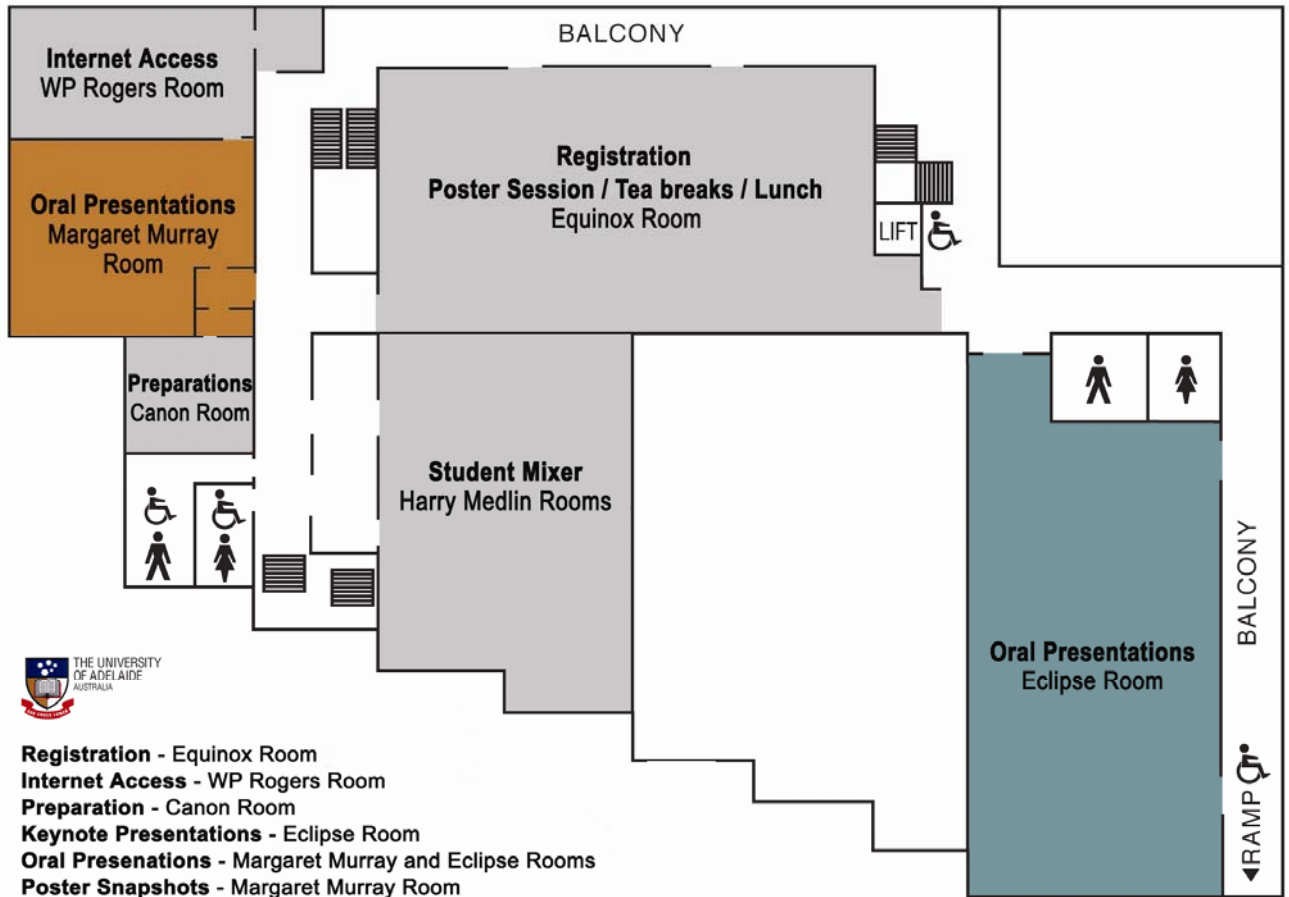
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## Poster Session



No.	Author	Poster Title
1	Amie Anastasi	<a href="#">Manganese oxidation in a subtropical estuarine system</a>
2	Atcharaporn Somparn	<a href="#">Ecotoxicology of pesticide use in the Thai paddy field on the zooplankton, <i>Moina micrura</i> Kuze.</a>
3	Brooke Ryan	<a href="#">The Fate and Behaviour of Cerium Oxide Nanoparticles in the Terrestrial Environment</a>
4	Christopher Rawson	<a href="#">Fish health in Claisebrook Cove, an urban embayment of the Swan River, WA</a>
5	Chuleemas Boonthai Iwai	<a href="#">Ecotoxicological Monitoring of the Impact of Salinity on Soil Biota Activities in the Salt-Affected Area in Northeast Thailand.</a>
6	Diane Webb	<a href="#">The potential of freshwater shrimp (<i>Palaeomonetes australis</i>) as a model bioindicator of crustacean health</a>
7	Diane Webb	<a href="#">Depurated fish as alternative to reference sites</a>
8	Diane Webb	<a href="#">Serum SDH activity as a biologically significant biomarker of liver integrity in fish</a>
9	Diane Webb	<a href="#">HSP70 expression as a biologically significant biomarker of fish health under field conditions</a>
10	Fleur Pablo	<a href="#">Investigations into the phytotoxicity of water-accommodated fraction (WAF) of common petroleum fuels to typical garden plants</a>
11	Gabriela Aguirre-Martínez	<a href="#">Sublethal effect responses to assess toxicity of oil spill contaminated sediments: application of a battery of biomarkers under laboratory conditions.</a>
12	Gemma Kirwan	<a href="#"><sup>1</sup>H-NMR Metabonomic studies of black bream exposed to 17β-estradiol.</a>
13	Geoff MacFarlane	<a href="#">Phylogenetic analyses in ecotoxicology: new approaches to incorporating evolutionary relationships into comparative toxicological studies</a>
14	Golam Kibria	<a href="#">Artificial mussel' a new environmental risk assessment tool for heavy metals monitoring in surface waters-pilot study</a>
15	Hai Doan	<a href="#">Preliminary ecotoxicological assessment of water in a reed-bed and aquifer at Salisbury stormwater ASTR project</a>
16	Ing Chia Phang	<a href="#">Response of <i>Arabidopsis thaliana</i> seedlings to lead exposure: effect of pre-treatment with sodium nitroprusside</a>
17	Jackie Myers	<a href="#">Effects of salinity and light intensity on photosynthetic capacity of the cyanobacterium <i>Nodularia spumigena</i></a>
18	John Chapman	<a href="#">Toxicity of Phoslock™ A lanthanum-based clay product to fish and cladoceran</a>
19	Madeleine Thomas	<a href="#">Dissolution and Partitioning of Manufactured Silver Nanoparticles in the Soil Environment</a>
20	Anu Kumar	Approaches to assess endocrine disruption in the Australian riverine environment
21	Nikita M. Engels	<a href="#">DNA Damage in the marine macro-algae <i>Ulva</i> exposed to the polycyclic aromatic hydrocarbon benzo[a]pyrene</a>
22	Patryk Oleszczuk	<a href="#">Bioavailability of polycyclic aromatic hydrocarbons in sewage sludges and composts and their effects on plants and crustaceans</a>
23	Prakash Srinivasan	<a href="#">Sorption of veterinary antibiotics onto New Zealand dairy farm soils</a>
24	Rajani Jagtap	<a href="#">Measurement of mercury species by HPLC-HG-AAS</a>
25	Ray Correll	<a href="#">Use of time series acute toxicity data to predict chronic lethality</a>
26	Richard Yu	<a href="#">Leptin: a molecular link between hypoxia and endocrine disruption in fish?</a>
27	Rosangela A. Devilla	<a href="#">Impact of antifouling biocide on marine phytoplankton composition: influence of nutrient additions and Irgarol 1051® toxicity</a>
28	Sonia Grocke	<a href="#">Evaluation of the organic load measurements in the winery processes</a>
29	Shannon McCrindle	<a href="#">Fate and detection of carbon nanotubes in soil environments</a>
30	Wan Abdul Rahim Wan Ahmad	<a href="#">The use of the Three-spined Stickleback (<i>Gasterosteus aculeatus</i>) as a model species to identify androgenic and estrogenic properties of Produced water</a>
31	Yin L.Phyu	<a href="#">Assessment of the risk of atrazine, permethrin and chlorothalonil in the Hawkesbury Nepean River NSW, Australia</a>

**Conference Location – University of Adelaide, North Tce, Adelaide**



- Registration** - Equinox Room
- Internet Access** - WP Rogers Room
- Preparation** - Canon Room
- Keynote Presentations** - Eclipse Room
- Oral Presentations** - Margaret Murray and Eclipse Rooms
- Poster Snapshots** - Margaret Murray Room
- Poster Session** - Equinox Room
- Lunch/tea breaks** - Equinox Room
- Student Mixer** - Harry Medlin Rooms
- Conference Dinner** - National Wine Centre (Cnr Hackney Rd & North Tce)

**Union House**  
Level 4 Conference Centre



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