

6th Australia and New Zealand Cyanobacteria Workshop

Oral Presentations List – Day 1: 25th September 2018, Tuesday

8:00 - 8:45	Registration opens at Scientia Hall	
8:45 - 9:00	Seating opens	
9:00 - 9:15	Rita Henderson	Official Welcome by Organising Committee
9:15 - 9:45	Prof. Sandra M. F. O. Azevedo	Toxic cyanobacteria: an example of interrelation between environment and health
9:45 – 10:00	Morning Tea and Coffee	
10:00 – 11:20	Session 1	Molecular biology and toxicology of cyanobacteria Chair: Nick Crosbie
10:00 – 10:20	Jake Violi	Prevalence of β -methylamino-L-alanine (BMAA) and its isomers in freshwater cyanobacteria isolated from eastern Australia
10:20 – 10:40	Nicholas Osborne	Cyanobacterial detection and quantification in a range of water supplies in dry and wet zones of Sri Lanka
10:40 – 11:00	Alescia Cullen	Understanding differential paralytic shellfish toxin profiles between two <i>Scytonema crispum</i> strains
11:00 – 11:20	Nijoy John	Population genetics and toxigenicity of Victorian sites of a recent (2016), extensive cyanobacterial bloom in the Murray River
11:20 – 11:40	Break	
11:40 – 13:00	Session 2	Environmental impacts and controls of cyanobacterial growth and toxin production – 1 Chair: Lisa Hamilton
11:40 – 12:00	Manabu Fujii	Increased toxin production by metal induced oxidative stress for freshwater cyanobacterium <i>Microcystis aeruginosa</i>
12:00 – 12:20	Azadeh Golshan	Patterns of cyanobacterial abundance in a major drinking water reservoir: What three years of monitoring data reveals?
12:20 – 12:40	Philip Orr	What drives changes in bloom toxicity?
12:40 – 13:00	Laura Kelly	Environmental factors influencing strain dominance in <i>Phormidium</i> – Phosphorus availability and alkaline phosphatase activity
13:00 – 14:00	Lunch	
14:00 – 15:20	Session 3	Environmental impacts and controls of cyanobacterial growth and toxin production – 2 Chair: Bojan Tamburic
14:00 – 14:20	Olivia Daniels	Response of the toxic cyanobacterium <i>Limnothrix</i> (strain AC0243) to various light intensities, salinities and temperatures
14:20 – 14:40	Qing-Long Fu	Iron uptake kinetics of bloom-forming cyanobacteria
14:40 – 15:00	Simon Tannock	Bio-manipulating diatom growth for the management of cyanobacteria and nitrogen levels in raw water and wastewater lagoons
14:00 – 15:20	Cameron Veal	The little lake that could. In water treatment options for cyanobacteria and associated taste and odour metabolites
15:20 – 15:30	Afternoon Tea and Coffee	
15:30 – 16:30	Session 4	Ecophysiology of cyanobacteria Chair: Philip Orr
15:30 - 15:50	Susie Wood	Historical cyanobacterial communities and cyanotoxins in six shallow temperate lakes
15:50 – 16:10	Jonathan Puddick	Blooming buddies: Understanding microcystin sequestration in non-toxic cyanobacteria and its ecological function
16:10 – 16:30	Anusuya Willis	Cyanobacterial strain variation – implications for research
16:30	Wrap up of Day 1	
16:30	Poster session and networking	
19:00	Dinner – Tyree Room at the Scientia Building Cyanobacteria Workshop Dinner speaker: Nick Crosbie	

*Presentations are 15 minutes long with 5 minutes for questions

6th Australia and New Zealand Cyanobacteria Workshop

Oral Presentations List – Day 2: 26th September 2018, Wednesday

8:00	Morning networking and coffee	
8:45 - 9:00	Seating opens	
9:00 - 9:30	Dr. Mark Matthews	The CyanoLakes online monitoring and mapping service for cyanobacteria blooms and water pollution
9:30 - 9:50	Morning Tea and Coffee	
9:50 - 10:50	Session 5	Cyanobacterial detection and quantification - 1 Chair: Michele Burford
9:50 - 10:10	Tim Malthus	Optical near-surface sensor observations for cyanobacterial assessment
10:10 - 10:30	Philip Ford	Detection and quantification of cyanobacterial blooms in wastewater treatment ponds by hyperspectral imaging
10:30 - 10:50	Mark Van Asten	Data interpretation from the use of the PhytoXigene QPCR assays in screening and monitoring for harmful algal blooms
10:50 - 11:00	Break	
11:00 - 12:20	Session 6	Cyanobacterial detection and quantification - 2 Chair: Michele Burford
11:00 - 11:20	Florence Choo	Using in situ fluorometers as a real-time cyanobacterial removal validation tool for water treatment plants
11:20 - 11:40	Sara Imran Khan	Monitoring of algal growth metabolites under varying nutrient load using fluorescence spectroscopy
11:40 - 12:00	Benny Zuse Rousso	Application of fluorescence probes to distinguish species composition of cyanobacteria blooms
12:00 - 12:20	Markus Vehniäinen	User-friendly two-site immunoassay technology for broad-range detection of microcystins and nodularin
12:20 - 13:20	Lunch	
13:20 - 15:00	Session 7	Application of science to the regulatory environment and application of the regulatory environment to water management Chair: Rita Henderson
13:20 - 13:40	Nicholas Williamson	Survival of cyanobacteria in rivers following their release in water from large headwater reservoirs.
13:40 - 14:00	Michele Burford	Is monitoring nutrients helping us manage cyanobacterial blooms?
14:00 - 14:20	Stuart Khan, Elaine Stone	NHMRC Guidelines for managing risks in recreational water: Cyanobacteria in fresh, coastal and estuarine water
14:20 - 14:40	Shane Faulkner	When linear regressions don't work: data-driven cyanobacterial risk assessment for the real world
14:40 - 15:00	Suzanne Froschio	Risk Assessment for Use of Recycled Water containing Microcystins
15:00 - 15:20	Afternoon Tea and Coffee	
15:20 - 17:00	Session 8	Other Chair: Naras Rao
15:20 - 15:40	David Cook	Evolution of drinking water treatment processes for the removal of cyanobacteria and their metabolites in South Australia
15:40 - 16:00	Andrea Gonzalez	Impact of cyanobacterial cell morphology and AOM on separation process
16:00 - 16:20	Shikha Garg	Impact of organic exudate from the cyanobacterium <i>Microcystis aeruginosa</i> on Fe redox transformation
16:20 - 16:40	Yunlong Luo	Culture of cyanobacteria and algal consortia for wastewater treatment and biomass production
16:40	Nick Crosbie	Wrap up of Day 2 and concluding remarks
17:00	Departure	

*Presentations are 15 minutes long with 5 minutes for questions

6th Australia and New Zealand Cyanobacteria Workshop

Poster Presentations List – Day 1: 25th September 2018, Tuesday

Poster number	Title	Presenter	Topic
1	Investigation of an orphan type I/III PKS gene cluster in <i>Microcystis aeruginosa</i> PCC7806	Larsen Joachim	Toxicology and molecular biology of cyanobacteria
2	Annual variation in bloom-forming <i>Microcystis</i> genotypes from an Australian wastewater lagoon	Caitlin Romanis	Taxonomy
3	Metabolomics applications to advance Cyanobacterial toxin detection and viability assessment in water.	Vijay Dhamale	Cyanobacterial detection and quantification
4	Distinguishing cyanobacteria from algae using remote sensing: what makes them unique?	Mark Matthews	Cyanobacterial detection and quantification
5	The CyanoLakes online monitoring and mapping service for cyanobacteria blooms and water pollution	Mark Matthews	Cyanobacterial detection and quantification
6	Cyanobacteria and toxin gene detection in Darwin Harbour, Northern Territory, Australia	Zarah Hockey	National and regional priorities for cyanobacteria research
7	The impact of biopolymer dosing on algae and cyanobacteria flotation using the novel PosiDAF process	Narasinga Rao Hanumanth Rao	Other
8	Secretion of organic exudate by <i>Microcystis Aeruginosa</i> : Implications to iron oxide formation and reactivity	Shikha Garg	Other