

8th ANZ Cyanobacteria Workshop

26 - 27 SEPTEMBER 2023
MONASH UNIVERSITY | VICTORIA

PROGRAM



TIME (AEST)	SESSIONS
8:30	Delegate Registration
9:00	Welcome Arash Zamyadi, Senior Lecturer, Monash University & Co-Chair, 8th ANZ Cyanobacteria Workshop
9:10	Opening Remarks Karen Rouse, CEO, Water Research Australia & Dr Nicholas Crosbie, Recycled Water & IWM Research Manager, Melbourne Water (Workshop Co-Chair)
9:30	KEYNOTE PRESENTATIONS TBA
10:30	MORNING TEA BREAK
CHARACTERISATION & RISK	
11:00	Mistaken identity: critical needs for improved taxonomic resolution to inform management responses to potentially harmful blooms Glenn McGregor, Principal Scientist QUEENSLAND DEPARTMENT OF ENVIRONMENT AND SCIENCE
11:15	Genome evolution and long-term stress exposure increases toxin production in <i>Raphidiopsis raciborskii</i> Anusuya Willis, Senior Research Scientist AUSTRALIAN NATIONAL ALGAE CULTURE COLLECTION, CSIRO
11:30	Metagenomic insights into Cyanobacterial blooms triggered by climate warming in NZ's freshwater lakes Prof. Naresh Singhal, Ph.D. UNIVERSITY OF AUCKLAND
11:45	Cyanotoxin uptake by food crops – what's the risk? Peter Hobson, Senior Scientist SA WATER
12:00	TBA
12:15	Q&A
12:45	LUNCH BREAK
DETECTION, IDENTIFICATION & REMOTE SENSING	
13:45	The history and progress of integrating molecular cyanobacterial assays into water monitoring programs Mark Van Asten, Managing Director DIAGNOSTIC TECHNOLOGY PTY LTD / UNIVERSITY OF NSW
14:00	Bloom dynamics under the effect of periodic driving forces Tonghua Zhang, A/Prof in Applied Mathematics SWINBURNE UNIVERSITY OF TECHNOLOGY
14:15	Developing a Sentinel Script and Framework to Manage Algae Risk Tracy Fulford, Regional Water Quality Advisor WATERNSW
14:30	Early warning and surveillance of a Dolichospermum bloom in Woods Lake, Tasmania, using satellite remote sensing Mark Matthews, Founder & CEO CYANOLAKES
14:45	Q&A
15:15	AFTERNOON TEA BREAK
SOURCE MANAGEMENT	
15:45	Impacts of inter-basin water transfers on cyanobacteria dynamics in reservoirs Azadeh Golshan, Water Quality Scientist WATERNSW
16:00	Journey to the source of odour; dealing with extreme algal challenges Florence Choo, Scientist SA WATER
16:15	Micronutrient addition reduces macronutrients and cyanobacteria in raw water storage Dr Simon Tannock, Director ALGAENVIRO PTY LTD
16:30	Validation of Mt Bold Aerator and downstream cyanobacterial benefits Robert Daly, Senior Scientist SA WATER
16:45	Q&A
17:15	DAY 1 CLOSE
18:00	Conference Social Event (TBC)

PROGRAM SUBJECT TO CHANGE

Please note that the content and/or the delivery of the event can change beyond the control of Water Research Australia. Water Research Australia will not take any responsibility for any errors, omissions and changes to the program or content of the event, and it reserves the right to make changes as it deems necessary.

TIME (AEST)	SESSIONS
8:30	Delegate registration and arrival
8:50	Welcome and Recap
TREATMENT	
9:00	SPECIAL PRESENTATION SolarCyanoSlayer – An eco-friendly preventor of cyanobacteria blooms AWA Stockholm Junior Water Prize winner 2023 Mikayla Rodger MERIDEN SCHOOL NSW
9:15	Biological activated carbon for removal of taste and odour compounds Rafael de Medeiros Paulino, Phd Candidate UNSW SYDNEY
9:30	Application of algaecide to a BGA bloom in a drinking water storage Phil Choi, Senior Environmental Health Scientist - Water QUEENSLAND HEALTH
9:45	Visible light enhances the toxicity of hydrogen peroxide towards <i>M. aeruginosa</i> Xiaoran Chu, PhD Candidate UNSW SYDNEY
10:00	Q&A
10:30	MORNING TEA BREAK
11:00	WORKSHOP Harmful and nuisance algae - workshop to discuss knowledge sharing and consideration of a One Health approach Hosted by Department of Health Victoria
12:30	LUNCH BREAK
MANAGEMENT STRATEGIES	
13:30	Unexpected effects of nutrient starvation on <i>Chrysosporum ovalisporum</i> toxins Michele Burford, Professor - Australian Rivers Institute GRIFFITH UNIVERSITY
13:45	How can we more effectively predict and monitor algal toxins in the environment and in seafood? Isabella Gore, Health Protection Officer DEPARTMENT OF HEALTH VICTORIA
14:00	Cyanobacterial bloom management: Technology performance & optimisation assessments Dr Arash Zamyadi, Senior Lecturer MONASH UNIVERSITY
14:15	Adaptive planning - Algal management at Happy Valley Reservoir Charndee Chahal, R&D Knowledge and Support Manager SUEZ
14:30	Monitoring and Treatment of Cyanobacteria & Algae by Hunter Water Vikas Shah, Treatment Engineer HUNTER WATER
14:45	Q&A
15:15	AFTERNOON TEA BREAK
EARLY CAREER RESEARCHERS 3-MINUTE PITCHES	
15:45	Remote sensing of temperature and cyanobacteria in the natural water column Carolyn Taylor, Postdoctoral Research Fellow MACQUARIE UNIVERSITY
	A multi-'omics approach to cyanobloom profiling Daniel Nebauer, PhD Candidate UNIVERSITY OF NEWCASTLE
	Management of algae-derived odour in drinking water systems Jin Zhu, PhD Candidate UNSW
	Cold-plasma activated bubbles for the elimination of cyanobacteria in water treatment Angelina, PhD Candidate UNSW
	Utilizing Australian Native Plants in Constructed Floating Wetlands to Remove Nutrients to reduce Cyanobacteria formation in Urban Stormwater Thanusshan Packiyarajah, Higher Degree by Research Student UNIVERSITY OF SOUTH AUSTRALIA
	Characterisation of <i>Nodularia spumigena</i> isolated from a recent bloom in Peterborough Coastal Reserve, Victoria Isis Londono, Masters Student AUSTRALIAN NATIONAL ALGAE CULTURE COLLECTION, CSIRO
	High-level global assessment of integrated cyanobacterial management strategies John Verhoeven, PhD Candidate UNSW
16:10	Q&A
16:20	CLOSING REMARKS
16:30	DAY 2 CLOSE



CSIRO AquaWatch Mission

End User Consultation Workshop: HABs Early Warning and Forecasting

End Users views and expectations
Moving from Thresholds to impact based forecasting

Thursday 28 September
10.00am - 4.30pm

Proudly supported by WaterRA

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