

2024 Stormwater Victoria Conference

SILVERWATER RESORT, SAN REMO, VIC

3-6 JUNE 2024

Program

ADVOCACY, ADAPTATION AND ACTION

PRE-CONFERENCE PROGRAM – MONDAY, 3 JUNE 2024

8.30am	Pre-Conference Workshop Registration, Lobby		
	Pre-Conference Workshop 1		Pre-Conference Workshop 2
Room	Waratah		Coronet
	<p>VIC Guidelines for the Maintenance of Stormwater Treatment Measures</p> <p>Murray Powell, Vice President of Stormwater NSW, and General Manager of Optimal Stormwater</p> <p>This full-day workshop covers all aspects of Operations and Maintenance for all types of stormwater treatment measures. These Guidelines, adopted by Stormwater VIC, have become the Australian industry standard and reference document for the maintenance of stormwater assets across the country. The Workshop is aimed at Maintenance Managers and Cleaning Contractors, as well as Council staff involved in the sizing, siting, and approval of stormwater treatment measures.</p>		<p>Water Sensitive Urban Design Concept Design</p> <p>Michael and Valerie Mag, Stormy Water Solutions</p> <p>This course is designed for practitioners who are involved in the planning, design and/or approval of drainage and Water Sensitive Urban Design (WSUD) projects and covers the basic principles of WSUD.</p> <p>This course is a condensed version of the 2-day Stormy Water Solutions WSUD Course held regularly in Glen Waverley.</p>
9.00am	Workshop Commences	9.00am	WSUD Overview and Sediment Pond Design
10.30am	Morning Tea		
11.00am	Workshop Continues	10.45am	Wetland Design
12.30	Lunch		
1.00pm	Workshop Continues	1.15pm	Swale Design
3.00pm	Afternoon Tea		
3.30pm	Workshop Continues	3.15pm	Bioretention System/Raingarden Design
5.00pm	Workshop concludes		
5.30 pm	Conference Registration and Welcome Reception Watermark Restaurant Deck, Silverwater Resort		
7.30 pm	Welcome Reception concludes		

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CONFERENCE PROGRAM – TUESDAY, 4 JUNE 2024

Room	Bay View Room
6.30am	Early Morning Yoga Session (1 hour) <i>Phillip Island Yoga</i>
8.00am	Conference Registration, Lobby Tea and Coffee on Arrival, Bay View Room
Room	Churchill and Flinders
9.00am	Welcome to the 2024 Stormwater Victoria Conference <i>Alison Rickard, Conference Chair</i>
9.10am	Welcome to Country <i>Given by a representative of the Bunurong People</i>
9.15am	President's Welcome <i>Alice Lisitsa, President, Stormwater Victoria</i>
9.20am	Opening Address <i>Councillor Clare Le Serve, Mayor, Bass Coast Shire</i>
9.30am	Sponsor Address
9.35am	<p>Keynote Presentation - What Does a Circular Economy Mean for Stormwater and Water Sensitive Cities? <i>Peter Gillam, Waterways Lead, Aurecon, NSW</i></p> <p>'Circular economy' has become a buzz phrase in recent years as communities and countries set carbon neutral targets, adopt less linear approaches resource use and regenerate natural systems.</p> <p>Circular economy goals seem ambitious and challenging in the context of existing urban areas, but they are a necessary path towards new resilient, thriving cities and suburbs. The stormwater industry is well placed to drive change towards a circular economy as we grapple with carbon neutral targets and material shortages which pose challenges to the business-as-usual approach.</p> <p>This presentation will re-introduce the three main principles of circular economies as they relate to stormwater management and outline opportunities for stormwater practitioners to establish circular economies in our new communities. Examples from the Western Sydney Aerotropolis illustrate how stormwater planning can lock in the principles and foundations of regenerative development through new approaches to water sensitive urban design (WSUD). This new WSUD approach is making the 'step-change' required to achieve a circular future. What can we learn from this region to build water sensitive cities and circular cities elsewhere?</p>
10.25am	Morning Tea, Bay View Room
10.50am	Move to Breakout Rooms

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Stream	Ain't No Stopping Us Now – Taking Action <i>Chair: tbc</i>	Full Circle – Designing to Maintaining and Operating <i>Chair: Emily Plymin</i>	Imagine – Advocating for a Sustainable Future <i>Chair: Sai Aung</i>	The Times They Are A Changin'- Adapting to Uncertain Times <i>Chair: tbc</i>
Room	Churchill	Bay View Room	Waratah & Coronet	Flinders
10.55am	A little litter goes a long way: Innovation in litter assessments Paulina Elizalde , Waterway Specialist, Streamology and Maximillian Monk , Project Manager, Parks Australia	Towards effective WSUD assets on private land: Lessons from a case study review Dr. Belinda Hatt , Waterways & Wetlands Research Specialist, Melbourne Water	Turning the light on flood information and turning it into intelligence Celine Marchenay , Senior Principal Engineer and Group Manager, Water Technology	Understanding risks of drought in urban Melbourne, to unlock integrated water management solutions Celeste Morgan , Australasia Integrated Water Management Lead, Arup and Ayisha Paw , Senior Engineer, Arup
11.25am	5 Minute Room Change			
11.30am	How much stormwater is too much: setting flow limits for the protection of waterway values Dr. Simon Treadwell , Global Principal Ecosystem Restoration, Jacobs	Diving deep into WSUD maintenance compliance Daniel Rider , Water Sensitive Urban Design Specialist, Ocean Protect	Smart stormwater surcharging for passive irrigation and biodiversity boosting in Australia's public spaces Dr. Jerry Liang , Water Resources Engineer, Kellogg Brown & Root (KBR)	From wind turbines to hydropower, sustainable stormwater supports renewable energy battery storage Julia Baumann , Senior Engineering Manager, Dalton Consulting Engineers (DCE)
12.00pm	5 Minute Room Change			
12.05pm	Using trash traps for data collection and education to inform local solutions to stormwater pollution Hannah De Frond , Project Specialist, International Trash Trap Network, Ocean Conservancy & University of Toronto Trash Team	Performance based sediment pond maintenance Alison Rickard , Senior Asset Manager, Melbourne Water	What is flood impact Alice Lisitsa , Water Lead, BG&E and Caterina Paganelli , Senior Water Engineer BG&E	When drainage schemes, strategies and plans are forgotten..... Jamie Tainton , Principal Engineer, Water Studio

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12.35pm	5 Minute Room Change			
12.40pm	Stormwater Harvesting Audit helps to justify Business Case for further investment Dr. Edmond Lascaris , Stormwater Management Specialist, City of Whittlesea and Christopher Schroen , Water Management Officer, City of Whittlesea	Is my stormwater harvesting scheme operating as expected? Bjorn Bryant , Project Engineer, Water Technology, and Gayani Chandrasena , Senior Engineer, Water Technology	Reimagining flood capacity building Rianda Mills , Director, Rain Consulting, Luke Cunningham , Director, Rain Consulting, Nicole Sutherland , Area Lead Flood and Stormwater Partnerships, Waterways and Catchment Services, Melbourne Water and Lucy McLaren , Flood Strategy Project Officer, Flood Strategy and Stormwater Policy, Melbourne Water	An ecologist, an engineer and a drone walk into a wetland Jarrold Gaut , Civil Engineer and Principal, Water Insites and David Carew , Director, Carew Environmental
1.10pm	Lunch			
2.00pm	Move to Breakouts			
Stream	Ain't No Stopping Us Now – Taking Action Chair: Maria Matamala	The Times They Are A Changin'- Adapting to Uncertain Times Chair: Karl Velasco	Imagine – Advocating for a Sustainable Future Chair: tbc	The Times They Are A Changin'- Adapting to Uncertain Times Chair: Alison Rickard
Room	Churchill	Bay View Room	Waratah & Coronet	Flinders
2.05pm	Stormwater offsets: the ultimate polluter handball.... or are they? Maggie Xipolitos , Senior Policy Officer, Department of Energy, Environment and Climate Action DEECA	Innovative flood mitigation solutions: Modelling permeable pavement conversion to quantify potential benefits Mardi Medwell-Squier , Technical Director – Flood hydrology and hydraulics, GHD	For permeabilities sake, let's all retire Tess Fuhrmann , Engineer, Afflux Consulting and Andy Wilkins , Design Drafter, Afflux Consulting	Restoring Victoria's lost oyster reefs – A pearlfect alternative for offsetting stormwater quality objectives? Tony Barrett , Principal Integrated Water Management, AECOM
2.35pm	5 Minute Room Change			
2.40pm	A stormwater offsets scheme for industrial development Angela Ganley , Senior Sustainable Environment Officer, Hume City Council	New approach to rainfall application into urban flood models Hugh Nguyen-Mallen , Senior Engineer - Water Resources, SMEC	Increasing permeability in the private realm: Dream or reality? Dr. Vassiliki Boulomytis , Senior Water Officer, City of Port Phillip	The robots are taking over: MUSICX automation and optimisation to test harvesting targets across Melbourne Neha Shetty , IWM Consultant, Arup, James Newton , Senior Manager Reform Projects, DEECA and Tom Wardley , Senior Data Scientist, Arup

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3.10pm	5 Minute Room Change			
3.15pm	Strategic WSUD prioritisation map for the City of Melbourne Celeste Morgan , Australasia Integrated Water Management Lead, Arup, Dr. Cintia Dotto , Water Sensitive Cities Lead, City of Melbourne and Penny Ball , Water Sensitive Cities Lead, City of Melbourne	Stormwater flow targets are here: What does this mean for our growing regions? Birgit Jordan , Senior Waterway Engineer and Stormwater Specialist, Streamology Pty Ltd and Dr. Geoff Vietz , Director Streamology Pty Ltd	Navigating the confluence- a collaborative approach to flood modelling across diverse authorities Dr. Muhammadn Khalid , Technical Lead, Afflux Consulting and Andrew Allan , Principal Engineer, Afflux Consulting	Redesigning streetscapes to irrigate the urban forest with stormwater Dr. Chris Szota , Lecturer, The University of Melbourne
3.45pm	Afternoon Tea			
4.10pm	Move to Plenary Room			
Room	Churchill and Flinders			
4.15pm	Stormwater Victoria's VUDM Update Alice Lisitsa , President, Stormwater Victoria			
4.40pm	Best Presenter Award			
4.45pm	2024 Stormwater Victoria Awards Session Presented by Alice Lisitsa , President, Stormwater Victoria			
5.15pm	Day 1 Close			
6.15pm	Buses depart Silverwater Resort for Philip Island Winery			
6.45pm	2024 Stormwater Victoria Conference Dinner and Casino Night Phillip Island Winery, 414 Berrys Beach Rd, Ventnor VIC 3922 Return transfers to Silverwater Resort between 10 and 11pm.			

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CONFERENCE PROGRAM – WEDNESDAY, 5 JUNE 2024

Room	Bay View Room
6.30am	Early Morning Yoga Session (1 hour) <i>Phillip Island Yoga</i>
8.00am	Conference Registration – Tea and Coffee on Arrival
Room	Churchill and Flinders
9.00am	Welcome to Day 2
9.05am	Stormwater Victoria Update <i>Alice Lisitsa, President, Stormwater Victoria</i>
9.20am	Gold Sponsor Address <i>Melbourne Water</i>
9.25am	<p>Keynote Presentation – Lessons learned from innovative data-driven storm water management solutions around the world <i>Leanne Reichard, COO, Hydrologic, The Netherlands</i></p> <p>In the dynamic field of stormwater management, cutting-edge technologies offer new opportunities for tackling today's challenges and preparing for an uncertain future. Aligned with the theme of Advocacy, Adaptation, and Action at the 2024 Stormwater Victoria Conference, this presentation explores and showcases the transformative power of digital data-driven storm water management solutions like operational online decision support dashboards or extreme weather predictions and alerts. These innovations advocate for sustainability and enable real-time monitoring, predicting extreme rainfall patterns, and efficient risk mitigation. Collaborative efforts, driven by technology, empower us to take actionable steps for a resilient urban environment. This session delves into the synergy between data-driven technologies and our collective pursuit of advocacy, adaptation, and proactive action in stormwater management. Examples from different countries including Australia, the Netherlands and South Africa will be shared, providing valuable lessons learned through collaborative efforts and showcasing the transformative potential of technology in advancing stormwater management.</p>
10.15am	Morning Tea
10.40am	Move to breakout rooms

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Stream	Ain't No Stopping Us Now – Taking Action <i>Chair: tbc</i>	Full Circle – Designing to Maintaining and Operating <i>Chair: tbc</i>	Imagine – Advocating for a Sustainable Future <i>Chair: Alice Lisitsa</i>	The Times They Are A Changin'- Adapting to Uncertain Times <i>Chair: Julia Baumann</i>
Room	Churchill	Bay View Room	Waratah & Coronet	Flinders
Session Sponsor				
10.45am	Reimagining Moonee Ponds Creek Alexandra Lee , Principal Landscape Architect Spiire, Thomas Cousland , Principal (Integrated Water Engineer), Spiire and Neil Featonby , Program Manager, Melbourne Water	Good WSUD maintenance can actually cost less over time! Hallelujah! A real life example Rob Catchlove , Director, Wave Consulting Australia	Smart design and control of stormwater storages: Quantified benefits of machine learning Dr. Jerry Liang , Water Resources Engineer, Kellogg Brown & Root (KBR)	Stormwater to potable: A blended US/International perspective on stormwater recycling Andrew Salveson , Vice President, Carollo, John Rehring , Vice President, Carollo and Birgit Jordan , Senior Waterway Engineer and Stormwater Specialist, Streamology Pty Ltd
11.15am	5 Minute Room Change			
11.20am	Sizing a Solution: A rainwater tank ready reckoner for residential runoff reduction Mahimadharani Sivaji , Engineer, Engeny Australia, Vanessa Wong , Principal Engineer, Engeny Australia, and Glenn Ottrey , Principal Engineer, Engeny	Myth busting bioretention!! Brad Dalrymple , Principal Environmental Engineer, Ocean Protect	Beaufort Linear Park – sparking new life into an old waterway Stephen Read , Senior Landscape Architect, Emerge Associates and Ray Davies , Manager Economic Development and Tourism, Pyreness Shire Council	Protecting and enhancing the headwater streams of Aitken Creek in Craigieburn West PSP Wira Yan , Water Resources Engineer, Jacobs and Katy Marriott , Environmental Specialist, Melbourne Water
11.50am	Lunch			
12.40pm	Move to breakout rooms			

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	Ain't no stopping us now – taking action <i>Chair: Celine Marchenay</i>	Full circle – designing to maintaining and operating <i>Chair: tbc</i>	Imagine – Advocating for a sustainable future <i>Chair: tbc</i>	Ain't no stopping us now – taking action <i>Chair: tbc</i>
Room	Churchill	Bay View Room	Waratah & Coronet	Flinders
12.45pm	Melbourne Water's stormwater incentives program: a problem shared is an outcome achieved Dr. Briony Norton , Stormwater Partnerships Coordinator, Melbourne Water and Micah Pendergast , Stormwater Incentives Coordinator, Melbourne Water	Cherry Creek stormwater harvesting - optimising wetland design within a challenging site Jacob Meehan , Senior Engineer, Spiire and Stephanie Amy , Senior Engineer, Spiire	Integrated water management at Aquarevo Ninad Dharmadhikari , Product Development Manager (systems), South East Water	Catchment scale IWM plans: From planning to implementation Dr. Sara Lloyd , Director, E2Designlab
1.15pm	5 Minute Room Change			
1.20pm	Transforming urban design for resilience & sustainability - Whittlesea's IWM guidelines Patrick Jeschke , Integrated Water Management Specialist, City Of Whittlesea	Casey Council gross pollutant trap rectifications - lessons for ALL councils Murray Powell , General Manager, Optimal Stormwater	Dhumbali W'urneet Gadhaba: a cross-cultural approach to integrated water management, Ross Allen , Creative Director, Three Seeds Agency and Ezekiel Dobelsky , Integrated Water Management Officer, Glen Eira City Council	Protecting people and property in an uncertain and changing environment Priyanka Wickramasuriya , Water Resource Engineer, Stantec and Sasha Jelcic , Practice Lead - Water Resource Design, Stantec
1.50pm	Afternoon Tea			
2.15pm	Move to Plenary			
2.20pm	Keynote Presentation – Resilient to what? How Futurism can help us make better long-term decisions and improve infrastructure resilience Simon Waller , Futurist The Stormwater sector is forever focused on the future. Infrastructure built today needs to remain relevant for decades to come, even though that future feels more uncertain than ever. Fortunately, futurism provides a set of mindsets, tools, and techniques to help us find better answers to complex and challenging questions. At our upcoming conference, we are joined by futurist Simon Waller, who will share how futurists view the future differently from most people. Simon will show us how, with a fresh set of eyes, we can start to see the signals and drivers that will shape our collective future and use them to create thought-provoking future forecasts. With these forecasts, we can then start to identify opportunities, uncover risks, and highlight new strategic options across the Stormwater sector.			

3.10pm	<p>Panel Session - “The future of stormwater management: How do we create action in the absence of a crisis?”</p> <p>Moderator: Simon Waller</p> <p><i>Panellists include:</i></p> <p>Kirsten Tanner, Coordinator Emergency Management, Maribyrnong City Council</p> <p>Duncan Sheppard, Senior Advisor, Resilience, Insurance Council of Australia</p> <p>Leanne Reichard, COO, Hydrologic, The Netherlands</p> <p>Prof. Briony Rogers, Professor/CEO Fire to Flourish/Director MSDI Water, Monash Sustainable Development Institute</p> <p>Why does it sometimes feel like we need a crisis to drive action? How can we break this cycle and build resilient communities before the crises occur? This panel session will explore the future of handling storms and floods, including how we bring communities on board for the journey.</p>
4.20pm	<p>Best Presenter Award</p> <p>Exhibitor Prize Draws</p>
4.30pm	Conference Wrap Up
4.45pm	Conference Concludes

POST-CONFERENCE PROGRAM – THURSDAY, 6 JUNE 2024

8.30am	Technical Tour Registration
8.30am	<p>Technical Tour departs.</p> <p>The Stormwater Victoria Technical Tour will capitalise on the 2024 Conference’s location in San Remo. The technical tour will look at stormwater assets that specifically relate to the challenges of managing stormwater in a coastal environment. Participants will visit an experimental mangrove planting site run by the Westernport Seagrass Partnership with the goal of improving coastal management. Then, Bass Coast Shire Council will welcome participants to the Pioneer Bay Wetlands and Tenby Point Raingardens. These two assets utilise different methodology with the same goal—managing stormwater to provide community safety and water quality benefits. From Tenby Point, the tour will head south and east to Cape Patterson where the Cape development provides an example of how stormwater management can be integrated into a coastal development not as an after-thought, but as a fundamental component of the development.</p>
5.00 pm	Technical Tour returns to venue and guests depart