



CRC for  
Water Sensitive Cities

26—28  
March

2019  
Brisbane  
Australia

# Conference Program



4th water sensitive cities conference



Australian Government  
Department of Industry and Science

**Business**  
Cooperative Research  
Centres Programme



# Day 1

Tuesday  
26 March

Time	Program	
9:00 am	Welcome address, <i>Professor Bronwyn Harch, Deputy Vice Chancellor Research, The University of Queensland</i>	
9:10 am	Welcome to Country, <i>Speaker to be confirmed</i>	
9:15 am	Opening remarks, <i>Professor Tony Wong, CEO, CRCWSC</i>	
9:30 am	Designing the 21st century city in nature: prospects for a high(er) density urbanism, <i>Caroline Stalker, Design Director (Urban), Principal, Arup Australasia</i>	
10:00 am	Resilience thinking in unlocking the complexities of cities—the complementary roles of the public and private sectors, <i>Adam Fennessy, Partner – Advisory, Government and Public Sector, Oceania Leader – Future Cities, EY</i>	
10:30 am	Morning tea	
11:00 am	Chair: <i>Fiona Chandler</i> Session 2A – Planning for a changing climate, <i>City cooling</i>	Chair: <i>Dr Sandra Hall</i> Session 2B – Valuing a water sensitive city, <i>Resources, innovation and efficiency</i>
	Why the need for urban cooling is as important as ever, <i>Speaker to be confirmed</i>	Technologies to face water challenges of the future, <i>Professor Zhiguo Yuan, Director, Advanced Water Management Centre, The University of Queensland</i>
	Informing urban planning decisions: Amaravati, <i>Dr Stephanie Jacobs, Mosaic Insights/Alluvium</i>	Energy recovery, <i>Title and speaker to be confirmed</i>
	Informing urban planning decisions in New South Wales, <i>Speaker to be confirmed</i>	Purple Phototrophic Bacteria: A silver bullet for effective resource recovery from wastewater? <i>Professor Damien Batstone and Dr Tim Hülsen, The University of Queensland</i>
	Informing urban planning decisions in Victoria, <i>Title and speaker to be confirmed</i>	Innovation Centre in Subiaco WA, <i>Speaker to be confirmed</i>
	Panel discussion	Panel discussion
12:30 pm	Lunch	


1:30 pm	Session sponsored by  <b>WATER TECHNOLOGY</b> <small>WATER, COASTAL &amp; ENVIRONMENTAL CONSULTANTS</small>	
	Chair: <i>Tony McAlister</i> <b>Session 3A – Planning for a changing climate, Flood resilience</b>	Chair: <i>Madeleine Greenlee</i> <b>Session 3B – Valuing a water sensitive city, Communities</b>
	Flood resilient urban design, <i>Piet Filet, Engagement and Collaboration Specialist, International WaterCentre</i>	Engaging communities, <i>Dr Jo Lindsay, CRCWSC and Monash University</i>
	Housing design to respond to seasonal groundwater inundation, <i>Daniel Martin, PhD student, CRCWSC, UWA</i>	Accessing the research: Bendigo, <i>Liam Sibly, Senior Water Strategy Officer, City of Greater Bendigo</i>
	Flood resilient housing, <i>Dr James Davidson, James Davidson Architect</i>	Townsville schools and water conservation, <i>Chris Manning, Coordinator Creek to Coral Townsville Water and Waste</i>
	Planning elements associated with the Brisbane River Catchment Management Plan, <i>Speaker to be confirmed</i>	Understanding the community's water needs and building their connection to water in Perth, <i>Antonietta Torres, Water Corporation</i>
	Panel discussion	Panel discussion
3:00 pm	Afternoon tea	
3:30 pm	Session sponsored by  <b>CITY OF GOLD COAST™</b>	
	Chair: <i>Jamie Ewert</i> <b>Session 4 – Plenary panel, Transitions journey</b>	
	The story of Kunshan, <i>Ms Xiaoling Fan, Deputy Director, Kunshan Bureau of Housing and Urban Rural Development</i>	
	Mainstreaming the sponge city initiative in Jiangsu (China): from demonstration to enabling policies and practice, <i>Ms Lingjun He, Deputy Head, Division of Urban Development, Jiangsu Department of Housing and Urban-Rural Development (China)</i>	
	New CRCWSC activities in Kunshan, <i>Jianbin Wang, International Engagement Manager – China, CRCWSC</i>	
	Gold Coast: the transition journey, <i>Kathy Baker, Manager, Service Sustainability, City of Gold Coast</i>	
Panel discussion		
5:00 pm	Close	
6:00 pm	Kick off the conference with our Cocktail networking event hear local acoustics duo, McDermott and North, in the Mercure Foyer	
7:00 - 10:00 pm	Conference dinner, in the Chelsea Ballroom	



# Day 2

Wednesday  
27 March

Time	Program	
7:00 – 8:45 am	<p><b>WSC Breakfast – Valuing inclusion, inspiring change</b></p> <p>Join us for a networking breakfast. Hear from inspiring speakers who embrace innovation and inclusion in their workplace, and who will share their achievements and the challenges that they've overcome. Embrace the opportunity to meet with and learn from others within the industry, and to engage with the panel via a Q&amp;A session.</p> <p>Facilitator: Dr Sandra Hall, Board Member, Australian Water Association</p> <p>Panellists: <i>Terri Benson, Managing Director and Executive Director, South East Water; Professor Vicki Chen, Executive Dean of Engineering, Architecture and Information Technology, The University of Queensland; Sally Boer, Director, E2Designlab, and Vice President, Stormwater Queensland</i></p> <p>Optional event: \$40 per head. Register <a href="#">here</a></p>	
9:00 am	<p><b>Session 5 – Integrated platforms for city transformation</b></p> <p>Experience an integrated showcase of the CRCWSC's flagship platforms: the Transitions Platform, the City-shaping Platform and the Design Platform. These platforms integrate data, knowledge, tools and processes, so you can readily apply them to connect people, share knowledge and access resources for guiding a water sensitive city transition.</p> <p>Case studies will show how industry is using the platforms to diagnose problems, identify priorities, set targets, analyse options, generate solutions, evaluate performance, monitor progress, and embed learning across organisations and cities.</p> <p>Session Chair: <i>Chris Manning</i></p> <p>CRCWSC Platforms: <i>Dr Briony Rogers, Katie Hammer, Chris Chesterfield, Dr Christian Ulrich</i></p> <p>Case studies: <i>Shelley Shepherd, Director, Urbaqua; Sergey Volotovskiy, Manager, External Policy, Water Corporation; Sally Boer, Director, E2Designlab</i></p> <p>Panel discussion</p>	
10:30 am	<p><b>Morning tea</b></p>	
11:00 am	<p><b>Session 6A – Living with a changing climate</b> <i>Urban metabolism</i></p> <p>Urban Metabolism – concepts, applications and use for water sensitive cities, <i>Associate Professor Steven Kenway, Research Leader, CRCWSC and The University of Queensland</i></p>	<p><b>Session 6B – Valuing a water sensitive city</b> <i>Ecological and human health</i></p> <p>Why protecting and enhancing ecology is so important and delivers multiple benefits, <i>Julie McLellan, CEO, Healthy Land and Water</i></p>

	<p>Brabham groundwater, <i>Susanne Martins, Manager Innovation and Sustainability, Commercial Operations and John Savell, Director Strategic Projects, Department of Housing</i></p>	<p>Applying the Transition Dynamics Framework: Melbourne Water's Living Rivers program, <i>Sara Lloyd, Director, E2DesignLab</i></p>
	<p>Aura Development, <i>Mark Stephens, Senior Environment and Community Development Manager, Stockland</i></p>	<p>Accessing the research: tools to support decision making, <i>Dr Leah Beesley, The University of Western Australia</i></p>
	<p>Aquarevo: a case study, <i>David Bergmann, Research and Development Manager, South East Water</i></p>	<p>Connections with water and health in Indigenous communities, <i>Dr Cara Beal, Griffith University</i></p>
	<p>Panel discussion</p>	<p>Panel discussion</p>
12:30 pm	Lunch	
1:30 pm	<p>Session 7A – Living with a changing climate <i>Urban intensification</i></p>	<p>Session sponsored by  THE UNIVERSITY OF WESTERN AUSTRALIA</p> <p>Session 7B – Valuing a water sensitive city <i>Economics</i></p>
	<p>How do we support urban intensification?, <i>Professor Nigel Bertram, Practice Professor of Architecture, Faculty of Art Design and Architecture, Monash University</i></p>	<p>Adoption of water sensitive urban designs: the role of economic analysis, <i>Professor Sayed Iftekhar, Research Leader, CRCWSC and The University of Western Australia</i></p>
	<p>Informing urban planning decisions: Fisherman's Bend, <i>Speaker to be confirmed</i></p>	<p>Estimation of demand for recycled wastewater and stormwater for planning and management of a wastewater treatment plant buffer zone: a Western Australian case study, <i>Dr Louise Blackmore, The University of Western Australia and Ian Kininmonth, Senior Urban Planner, WaterCorp</i></p>
	<p>Informing urban planning decisions: Sydenham to Bankstown, <i>Speaker to be confirmed</i></p>	<p>CRCWSC tools for assessing alternative financing models for stormwater management, <i>Nick Morgan, MPIA, Senior Program Officer, Natural Environment, Water and Sustainability Branch, Brisbane City Council</i></p>
	<p>Informing urban planning decisions: Innovation House Townsville, <i>Speaker to be confirmed</i></p>	<p>Integrating and valuing alternative water in Adelaide, South Australia, <i>Craig Flavel, Senior Groundwater Engineer, Water Technology SA</i></p>
	<p>Panel discussion</p>	<p>Panel discussion</p>



3:00 pm	Afternoon tea
3:30 pm	<p><b>The future of the CRCWSC</b></p> <p>This is a town hall Q&amp;A session with a six-member panel (to be confirmed), moderated by the CEO, CRCWSC</p> <p>Panel members will comprise senior representatives from the CRCWSC's Board, Executive Team and Key Partner Organisations. They will discuss and answer questions from the audience on the next tranche of CRCWSC research and adoption activities. These activities are aiming to facilitate and accelerate the mainstreaming of water sensitive cities practices in Australian and global cities and towns by harnessing the emerging opportunities presented by (i) global urbanisation and intensification; (ii) digital technologies; (iii) community activation and empowerment; (iv) collaborative and innovative governance; and (v) Aboriginal knowledge and values.</p> <p>Facilitator: Professor Tony Wong, CEO, CRCWSC</p>
5:00 pm	Close

# Day 3

Thursday  
28 March

Time	Program	
	Room 1	Room 2
9:00 am – 12:10 pm	<p><b>Workshop 1A – Quantifying water performance of infill urban developments at different scales developed by the Water sensitive outcomes for infill developments (IRP4) project*</b></p> <p>See how CRCWSC research can be used to show it's possible to quantify the water performance of urban developments, and how planning practices could integrate with this quantification. This is a collaborative workshop, contextualised within an existing precinct.</p> <p>Target audience: planners, local government, architects, engineers, developers</p>	<p><b>Workshop 2A – Using the Non-market and Benefit Transfer tool developed by the Comprehensive economic evaluation framework (IRP2) project</b></p> <p>Build familiarity with, and gain experience in using, the INFFEWS Value tool (non-market value/benefit transfer) developed by the CRCWSC.</p> <p>See how the value tool links to the Benefit-Cost Analysis Tool. The value tool can help to draw out current system flaws around market signals, such as who benefits and who pays.</p> <p>Target audience: local government, policy makers, developers, planners, decision makers</p>
12:30 pm	Lunch	
1:00 – 4:30 pm	<p><b>Workshop 1B – Using the CRCWSC Scenario Tool developed by the Tools and Products (TAP) project to consider urban heat impacts in urban development*</b></p>	<p><b>Workshop 2B – I'm a champion, how about you? Exploring the CRCWSC Transition Dynamics Framework and best practice approaches to research adoption</b></p>



	<p>In this workshop, you'll gain hands-on experience using the scenario tool to explore the impacts of development and planning decisions on heat and to ensure urban green spaces.</p> <p>Target audience: planners, local government, architects, engineers, developers</p>	<p>Learn how to influence the uptake of water sensitive practices in your organisation and your city. Champions of water sensitive cities come in all shapes and sizes, and range in their ability to influence practice.</p> <p>This workshop will explore the Transition Dynamics Framework as a tool for driving change, best practice approaches to research adoption, and strategies for helping your organisation become an institutional champion.</p> <p>Target audience: all change makers</p>
<p>*Workshops 1A and 1B are aligned, so please consider coming to both.</p>		
<p>9:00 am          –          3:00 pm</p>	<p>Site visits yet to be confirmed.</p> <p>Please note: participants may choose <b>either</b> site visits or workshops on this day.</p>	



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