The Cooperative Research Centre for Water Sensitive Cities presents

# 2nd Water Sensitive Cities Conference

**Brisbane City Hall, Queensland** | September 8-9, 2015

## Conference Program

**Subject to change – Presenting authors shown**

| Time | *Tuesday 8 September 2015* | |
|---|---|---|
| 0900 | **Opening Plenary**<br>*Speakers and dignitaries to be confirmed*<br>**User-facing product development leading industry change: A Water Sensitive Cities Index**<br>Chris Chesterfield, CRCWSC | |
| 10:30 | ***Morning Break*** | |
| | **Stream 1 Enabling Structures** | **Stream 2 On-ground Practices** |
| 11:00 | **1a. Vision and Direction setting** | **2a. Integrating Solutions** |
| | **Developing shared visions and strategies: Participatory processes to guide water sensitive city transitions**<br>Briony C. Rogers, Monash University<br>*Mapping water sensitive city scenarios (Project 4.2)* | **The effect of irrigation on microclimate during heatwave conditions**<br>Ashley Broadbent, Monash University<br>*The design of public realm to enhance urban microclimates (Project B3.2)* |
| | **DAnCE4Water - A collaborative decision support tool to test urban water management strategies**<br>Christian Urich, Monash University<br>*Socio-technical modelling tools to examine urban water management scenarios (Project A4.3)* | **Melbourne's lowlands: Two swampy suburbs with broader implications for urban design**<br>Nigel Bertram, Monash University<br>*Urban intensification and green infrastructure: Towards a water sensitive city (Project D5.1)* |
| | **Case Study: New visions for Elwood's water future**<br>Speaker to be confirmed | **Case study: What is the optimal use of an open space? - A planning and management approach for delivering multiple benefits**<br>Sally Boer, E2 DesignLab |
| | | **Case study: Life-cycle assessment of Water Sensitive Urban Design**<br>Lara Dark, Brisbane City Council |
| | Panel Discussion | Panel Discussion |
| 12:30 | ***Lunch*** | |
| 13:30 | **1b. Planning and Governance** | **2b. Decision Making** |
| | **Towards a methodology for monitoring integrated water management through an urban metabolism approach**<br>Silvia Serrao-Neumann, Griffith University and<br>Marguerite Renouf, The University of Queensland<br>*Catchment-scale landscape planning for water sensitive city-regions in an age of climate change (Project B1.2)* | **An urban micro-climate model to assess temperature moderation from increased vegetation and water in urban canyons**<br>Kerry Nice, Monash University<br>*Green cities and microclimate (Project B3.1)* |
| | **Flood risk assessment as an integral part of urban planning**<br>Karsten Arnbjerg-Nielsen, Technical University of Denmark<br>*Social-technical flood resilience in water sensitive cities – Quantitative spatio-temporal flood risk modelling (Project B4.1)* | **Informing strategic planing through the application of water-sensitive modelling tools**<br>Peter Bach, Monash University<br>*Integration and demonstration through urban design (Project D1.4)* |
| | **Delivering public good through urban water management: A review of governance and practice in Australian cities**<br>Yvette Bettini, The University of Queensland<br>*Better governance for complex decision-making (Project A3.1)* | **Presentation to be confirmed**<br>*Urban rainfall in a changing climate (Project B1.1)* |
| | **Capacity-building for science-to-policy interaction**s<br>Matthew Laing, Monash University<br>*Strategies for influencing the political dynamics of decision-making (Project A3.3)* | **Case study: To be confirmed** |
| | Panel Discussion | Panel Discussion |
| 15:00 | ***Afternoon Break*** | |

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| 15:30 | **1c. Regulatory Frameworks** | **2c. Stream Protection** |
| | **How to create better regulatory frameworks for water sensitive cities**<br>Tara McCallum, Monash University<br>*Better regulatory frameworks for water sensitive cities (Project A3.2)* | **Presentation to be confirmed**<br>*Protection and restoration of urban freshwater ecosystems: Informing management and planning (Project B2.23)* |
| | **Statutory planning for water sensitive urban design**<br>Linda Choi & Barnaby McIlrath, Maddocks Lawyers<br>*Statutory planning for water sensitive urban design (Project B5.1)* | **Understanding and management of groundwater - surface water systems for improved protection of receiving waters**<br>Ana Singh, The University of Western Australia<br>*Hydrology and nutrient transport processes in groundwater/surface water systems (Project B2.4)* |
| | **Case study: Contested spaces in infill areas – The WSUD challenge**<br>Marcus Mullholland, Brisbane City Council | **Collaboration and learning to deliver multi-functional urban waterways at Wungong, Western Australia**<br>Ross Allen, CRCWSC<br>*Integration and Demonstration through Urban Design (Project D1.4)* |
| | **Case study: To be confirmed** | **Evidence-based raingarden design to promote community acceptance**<br>Megan Farrelly, Monash University<br>*Society and institutions (Project A4.1)* |
| | Panel Discussion | Panel Discussion |
| 17:00 | **Research Poster viewing and pre-dinner drinks** | |
| 18:30 | **Water Sensitive Cities Conference Dinner** | |

| ***Wednesday 9 September 2015*** | | |
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| | **Stream 1 Enabling Structures** | **Stream 2 On-ground Practices** |
| 09:00 | **1d. Valuation Frameworks** | **2d. Smart Technologies** |
| | **Hedging supply risks: An optimal water portfolio**<br>Anke Leroux, Monash University<br>*An economic evaluation (Project A1.1)* | **Wastewater treatment technologies for resource recovery: Economic and technological feasibility**<br>Damien Batstone, The University of Queensland<br>*Resource recovery from wastewater (Project C2.1)* |
| | **Quality and Security: Preferences for new sources of water supply**<br>Zack Dorner, Monash University<br>*Economic incentives and instruments (Project A1.3)* | **A biofilm model to predict the impacts of wastewater flow and composition on the in-sewer reaction kinetics**<br>Zhiguo Yuan, The University of Queensland<br>*Managing interaction between decentralised and centralised water systems (Project C3.1)* |
| | **Understanding social preferences to reduce land use conflicts in wastewater treatment plant buffer zone**<br>James Fogerty, The University of Western Australia<br>*Valuation of economic, social and ecological costs and benefits of strategies and systems for water sensitive cities (Project A1.2)* | **Demystifying high water use: Data analytics for personalised customer feedback about peak days**<br>Jin Wang, The University of Western Australia<br>*Intelligent urban water systems (Project C5.1)* |
| | **Science – policy case study: A whole-of-government approach to delivering Water Sensitive Cities**<br>Speaker to be confirmed | **Case study: Using big data for network optimisation**<br>Stephen Fernando, Mackay Regional Council |
| | Panel Discussion | Panel Discussion |
| 10:30 | ***Morning Break*** | |

| | Stream 3 Social Capital | |
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| 11:00 | **3a. Organisational Capacity** | **2e. Alternative Water Resources** |
| | **Developing organisational capacity for water sensitive cities**<br>Speaker to be confirmed<br>*Strengthening education programs to foster future water sensitive cities leaders (Project D4.1)* | **Green grey-water infrastructure**<br>Ana Deletic, Monash University<br>*Integrating multi-functional urban water systems (Project C4.1)* |
| | **Case study: Building organisational capacity towards a water sensitive city - Blacktown's story**<br>Natalie Payne, Blacktown City Council | **Pathogen removal by biofilter for greywater reuse – Its potential and future direction for fit-for-purpose water production**<br>Juri Jang, Monash University<br>*Fit-for-purpose water production (Project C1.3)* |
| | **Case study: Embedding water sensitive thinking in councils**<br>Celeste Morgan, E2 DesignLab | **Human health hazards in Australian urban stormwater runoff**<br>Jane-Louise Lampard, Sunshine Coast University<br>*Risk and health: Understanding stormwater quality hazards (Project C1.2)* |
| | **Generating research impact – Processes and pathways to success**<br>Fiona Chandler, CRCWSC and International WaterCentre<br>*Development of an evaluation and learning framework to inform CRCWSC impact assessment (Project D6.1)* | **Case study: WSUD on campus - Creating spaces for learning and liveability**<br>Dale Browne, E2 DesignLab |
| | Panel | Panel |
| 12:30 | ***Lunch*** | |

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| 13:30 | **3b. Community Capacity** | **2f. Managing Risk** |
| | **Prioritising water saving behaviours in households using measurements of impact and likelihood**<br>Paula Wright, Monash University<br>*Accelerating transitions to water sensitive cities by influencing behaviour (Project A2.2)* | **Science – policy case study: Making potable water reuse palatable to politicians - Learnings from a science-policy capacity building workshop**<br>Kelly Fielding, The University of Queensland |
| | **The new normal: Changing domestic water use habits after drought in Melbourne, Perth and Brisbane**<br>Jo Lindsay, Monash University<br>*Understanding social processes to achieve water sensitive futures (Project A2.1)* | **Science – policy case study: Service portfolios to maximise urban water value**<br>Steven Kenway, The University of Queensland |
| | **Engaging communities in stormwater management**<br>Angela Dean, The University of Queensland<br>*Engaging communities with water sensitive cities (Project A2.3)* | **Case study: Building a business case for an integrated water project**<br>Andrew Chapman, South East Water |
| | **Case study: To be confirmed** | **Case study: A Business Case for Water Sensitive South Ease Queensland**<br>Chris Tanner, Bligh Tanner |
| | Panel Discussion | Panel Discussion |
| 15:00 | ***Afternoon Break*** | |
| 15:30 – 16:30 | **Closing Plenary**<br>**Keynote:** Prof Nancy Grimm, Arizona State University<br>**Outlook for 2016 and beyond,** Tony Wong, CEO CRCWSC | |