

The Cooperative Research Centre for Water Sensitive Cities presents

# Novel decision-making tools for planners and designers

engaged with creating water sensitive cities

2:00 pm	Welcome
2:10 - 3:10 pm	Keynote presentations :  DAnCE4Water – a strategic planning tool that simulates to support decision making that considers urban form and water infrastructure along with other socio-economic considerations under a variety of climate change and population growth, and societal change scenarios  Urban Metabolism Framework – a framework that can be employed to evaluate regional water budgets across multiple landscape types aimed at ensuring regional water security incorporating climate science.  The Water Sensitive City Modelling Toolkit – a numerical model that quantifies the bio-physical performance of green infrastructure scenarios for stormwater management and urban greening. The Toolkit incorporates a suite of independent but connected modules (tools) which can assess the impact of green infrastructure type, scale, extent and arrangement on stream health, urban microclimate, water supply augmentation and minor flood mitigation.
3:10 - 4:00 pm	Panel discussion and Q & A session
4:00 - 5:00 pm	Networking and nibbles to celebrate the end of another great year

**Date/time** Monday, December 7 – 2pm to 5pm

**Location** [Rendezvous Hotel Sydney Central](#)  
[Corner of George and Quay Streets](#)  
[Sydney, NSW](#)

**Register attendance**  
Click here

## About the event

The Cooperative Research Centre for Water Sensitive Cities (CRCWSC) has been working with its partners from government and private industry to develop novel scenario assessment and decision support tools that help to address the complexity of managing water in a world faced with increasing population growth and changing land uses patterns; increasing climate variability; and a tightening economic environment.

This seminar and panel discussion has been designed to share and discuss three of these tools with practitioners involved in land use and growth planning, infrastructure planning and design, integrated water management planning.

## Speakers



**Dr Christian Urich** is a Research Fellow with Monash University's Department Civil Engineering, exploring the dynamics of integrated urban systems and their linkages between the city, its water infrastructure and socio-economic systems. His research focuses on how these dynamics and feedbacks can be modelled in an integrated way to explore scenarios for sustainable and robust adaptation strategies. Christian is part of the CRCWSC team developing an integrated platform and database for socio-technical modelling to support collaboration and decision-making.



**Dr Marguerite Renouf** is a Research Fellow at the University of Queensland's School of Chemical Engineering in Brisbane. She has worked in environmental research at UQ for the last 15 years, with a particular interest in evaluating the sustainability of production systems using life cycle assessment and urban systems using urban metabolism. Currently she is working with Dr Steven Kenway and researchers at Griffith University on a project within the Cooperative Research Centre for Water Sensitive Cities. The project aims to model water metabolism in cities to help plan more water efficient cities.



**Ross Allen** leads research synthesis, adaptation and implementation activities for the CRCWSC. Ross builds and enhances connections between research and practice to enhance research relevance and accessibility, and to improve industry capacity and on-ground outcomes. His work is focussed on water management and green-infrastructure initiatives that respond to local context, enhance urban places and support the wellbeing of urban communities.



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