

MONDAY 9 FEBRUARY 2015

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| 9:00-10:30 | SESSION ONE. The changing role of the urban water & energy & transport sectors including defining productivity sustainability, resilience and liability |
| <p>Chairs: Rob Skinner and Paul Reiter, Co-Chairs of Symposium</p> <p>Welcome and Introduction by chairs</p> <ul style="list-style-type: none">  Context for Symposium - IWA Cities of the Future Program. Corinne Trommsdorff, IWA Secretariat  Emerging sectorial partnerships for co-development of urban water strategy and urban water planning. Tony Wong, Cooperative Research Centre (CRC) for Water Sensitive Cities. (Australia)  Defining of sustainable (liveable) resilient and regenerative cities. Josh Byrne, CRC for Low Carbon Living (Perth, Australia)  Enhancing the liveability of our cities. Sharon Davies, Sydney Water Corporation (Sydney, Australia) | |
| 10:30-11:00 Break | |
| 11:00-12:30 | SESSION TWO. Water sensitive Urbanism |
| <p>Chair: Richard Stuetz, University of New South Wales (Sydney, Australia)</p> <ul style="list-style-type: none">  Towards an evolving definition of “Water Sensitive Urbanism”. Darryl Low Choy, Griffith University and CRC for Water Sensitive Cities (Brisbane, Australia)  Disaster resilience and transportation infrastructure. Vinayak Dixit, CRC for Low Carbon Living (Sydney, Australia)  Research synthesis. Ideas for water sensitive urbanism. Jamie Ewert, CRC for Water Sensitive Cities. (Clayton, Australia)  Defining liveability and water sensitivity. Briony Rogers, Monash University. Water for Livability Centre (Australia) | |
| 12:30-13:30 Lunch | |
| 13:30-15:00 | SESSION THREE. Decarbonising cities |
| <p>Chair: Tommy Wiedmann, CRC for Low Carbon Living (Sydney, Australia)</p> <ul style="list-style-type: none">  City footprints as a pathway to decarbonisation. Tommy Wiedmann, CRC for Low Carbon Living (Sydney, Australia)  Low Carbon Urban Development. Vanessa Rauland, Curtin University (Perth, Australia)  Quantifying and managing water-energy interactions in cities. Steven Kenway, University of Queensland and CRC for Water Sensitive Cities. (Brisbane, Australia) | |
| 15:00-15:30 Break | |
| 15:30-17:00 | SESSION FOUR. International case studies |
| <p>Chair: Rob Skinner, Water for Liveability Centre, Monash University (Clayton, Australia) and Chair, IWA Cities of Future Program</p> <ul style="list-style-type: none">  Seattle – Three cases, three opportunities & three sustained success stories over 25 +years. Paul Reiter, Cities of the Future. International Water Association  New York City: Transforming from superstorm sandy to resilient security. John Batten, ARCADIS U.S (USA)  A tale of two cities Leeds and Bradford. Mark Fletcher, ARUP (Leeds, UK)  Experience from Australian cities. Adam Lovell, WSAA (Water Services Association of Australia) (Sydney, Australia) | |
| 17:00-18:00 | WRAP UP – Principles and directions from Day 1 |
| <p>Facilitated by Tony Wong, Cooperative Research Centre for Water Sensitive Cities (Australia)</p> | |
| 18:00-20:00 | RECEPTION |


TUESDAY 10 FEBRUARY 2015

9:00-10:30 SESSION ONE. Urban metabolism and the water-energy-waste nexus including footprint

Chair: Mark Pascoe, International WaterCentre Pty Ltd (Brisbane, Australia)

 **Mining resources from the urban wastewater system.** *Damien Batstone, University of Queensland and CRC for Water Sensitive Cities (Brisbane, Australia)*


 **Holistic benchmarking for sustainable water recycling.** *Michael Short, CRC for Low Carbon Living (Sydney, Australia)*

 **Urban metabolism for planning water sensitive cities.** *Steven Kenway, University of Queensland and CRC for Water Sensitive Cities. (Brisbane, Australia)*

10:30-11:00 Break

11:00-12:00 SESSION TWO. Urban regeneration at various levels

Chair: Deo Prasad, CRC for Low Carbon Living (Sydney, Australia)

 **Remodeling the infrastructure of Tokyo & Japanese cities.** *Shinichiro Ohgaki, Japan Water Research Center (Tokyo, Japan)*

 **Integrated demand forecasting for infrastructure and services-energy, transport, waste and water.** *Michael Taylor, CRC for Low Carbon Living (Sydney, Australia)*

12:00-13:30 Lunch

13:30-15:00 SESSION THREE. Fit - for- purpose production and multifunctional systems

Chair: Tony Wong, Cooperative Research Centre for Water Sensitive Cities (Australia)

 **Recent advances in technology and urban integration for fit-for purpose water production.** *David McCarthy, Monash University. Water for Liveability Centre and CRC for Water Sensitive Cities (Melbourne, Australia)*

 **Water cycle management for source augmentation and efficient reuse.** *Xiaochang Wang, University of Architecture & Technology (Xian City, China)*

 **Postcard from 2050: Regenerative, Restorative, Net-Positive Infrastructure.** *Cynthia Mitchell, Institute of Sustainable Futures (Sydney, Australia)*

15:00-15:30 Break

15:30-17:00 SESSION FOUR. Integrated hybrid centralised/decentralised urban water and energy system-including sensor and control systems

Chair: Rob Skinner, Water for Liveability Centre, Monash University (Melbourne, Australia)

 **To decentralise, or not?** *Paul Plowman, Sydney Water (Sydney, Australia)*

 **Technology options for optimal integration of decentralised urban water infrastructure with a centralised system.** *Jurg Keller, University of Queensland and CRC for Water Sensitive Cities*

 **Sweating the assets. The role of instrumentation, control and automation in urban water systems.** *Jurg Keller, University of Queensland and CRC for Water Sensitive Cities*


17:00-18:00 WRAP UP – principles and directions from Day 2

Facilitated by Richard Stuetz, University of New South Wales (Sydney, Australia)

WEDNESDAY 11 FEBRUARY 2015

9:00-10:30 SESSION ONE. Building the business case for smarter system design and retrofit

Chair: Richard Stuetz, University of New South Wales (Sydney, Australia)

 **Making the business case for a Water Sensitive City.** *Fan Zhang, University of Western Australia and CRC for Water Sensitive Cities (Perth, Australia)*

 **Empowering Broadway: Making Broadway low carbon.** *Lisa McLean, Flow Systems & CRC for Low Carbon Living (Sydney, Australia)*

 **Waste to energy: the critical interface.** *Philip Woods, Sydney Water (Sydney, Australia)*

 **Thinking beyond the balance sheet: Assessing net value creation in environmental infrastructure projects.** *Paul Reiter, Cities of the Future. International Water Association*

10:30-11:00 Break

11:00-12:30 SESSION TWO. Building literacy and influencing behaviours

Chair: Paul Reiter, Reiter International Water Solutions

 **Achieving low carbon urban living: transitioning built environments and human behaviours.** *Peter Newton, CRC for Low Carbon Living (Sydney, Australia)*


 **Water sensitive cities need water sensitive citizens: Perspectives on how to foster the transition.** *Kelly Fielding, University of Queensland and CRC for Water Sensitive Cities (Brisbane, Australia)*

 **Adoption pathways for a Water Sensitive Cities.** *Fiona Chandler, CRC for Water Sensitive Cities. (Brisbane, Australia)*

12:30-13:30 Lunch

13:30-14:30 SESSION THREE. Institutional reform for smart cities

Chair: Rob Skinner, Water for Liveability Centre, Monash University (Clayton, Australia)

 **Better governance approaches for water sensitive cities.** *Brian Head, University of Queensland and CRC for Water Sensitive Cities (Brisbane, Australia)*

 **Sustainability in the tropics - the water and energy challenge.** *Mark Wiltshire, Power and Water Corporation Northern Territory (Darwin, Australia)*

14.30-15:30 Wrap up – Principle and directions from Day 3

15.30 -16.00 Break

16.00-18:00 SESSION FOUR. Developing Symposium Communiqué

Jointly chaired by Rob Skinner and Paul Reiter

 **Facilitated by** Corinne Trommsdorff

Panel and delegate participation

Panel comprising:

- *Mark Pascoe*
- *Deo Prasad*
- *Richard Stuetz*
- *Tony Wong*