

■ **River ecology:** beneath the surface    
 ■ **River health:** healthy rivers, healthy economies, healthy people    
 ■ **A river runs through it:** designing river cities    
 ■ **River knowledge:** tools and techniques for action    
 ■ **River partnerships:** integrating people, governance and policy    
 ■ **River pressures:** pathways to sustainability

**0700 – 1800** REGISTRATION OPEN

**0900 – 1030** Room Plenary 1 Session A1  
**Opening Ceremony**

Chair: **Prof Stuart Bunn**, Australian Rivers Institute, Griffith University

Keynote: **Dr Klement Tockner**, Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Germany  
 Domesticated rivers: rethinking science and management

Keynote: **Dr Priyane Amerasinghe**, IWMI Hyderabad Office, India

**1030 – 1100** MORNING TEA

<p><b>1100 – 1230</b> Room Plenary 1 Session A2A  <b>River Ecology: Beneath the Surface</b></p> <p>Chair: <b>Stuart Bunn</b></p> <p><b>Dougal Currie</b>, Australia                  Mapping the groundwater dependence of riparian vegetation using SEBAL</p> <p><b>Matthew Currell</b>, Australia                  Conceptual models of ground-surface water interaction in the Connewarre Complex</p> <p><b>Geoff Savage</b>, Australia                  Ecological risk of groundwater extraction in the Upper Goulburn-Broken</p> <p><b>Penny Winbanks</b>, Australia                  South West Victoria Groundwater Atlas</p>	<p>Room 203 Session A2B  <b>Nature's Gifts: Enhancing Ecosystem Services</b></p> <p>Chair: <b>Jane Doolan</b></p> <p><b>Julie Dean</b>, Australia                  Urban waterway restoration: an intervention for improving mental health?</p> <p><b>Helen Smith</b>, Australia                  Enhancing river management by understanding landholders attitudes towards ecosystem services</p> <p><b>Bonny Dunlop-Heague</b>, Australia                  Bulls Brook Biodiversity Corridor – a case study in riparian restoration</p> <p><b>Michael Stewardson</b>, Australia                  Future perspectives on river health monitoring</p>	<p>Room 204 Session A2C  <b>Convening Partner Session African and Australian Collaboration for Sustainable River Management</b></p> <p>Presented by ANU, GIZ, SADC, UNESCO Chair in Water Economics and Transboundary Water Governance</p> <p>Chair: <b>Jamie Pittock</b></p>	<p>Room 210 Session A2D  <b>Convening Partner Session Transitioning Towards Water Sensitive Cities – Linking Global Initiatives for Cities of the Future 1</b></p> <p>Presented by the Cooperative Research Centre for Water Sensitive Cities</p> <p>Chair: <b>Rebekah Brown</b></p> <p><b>Jamie Ewert</b>, Australia                  The International Water Association Cities of the Future initiative</p> <p><b>Chris Chesterfield</b>, Australia                  The Victorian Government's Living Melbourne Living Victoria Initiative of urban water reforms</p> <p><b>Bhakti Devi</b>                  The City of Sydney's decentralised energy and water masterplans</p>	<p>Room 211 Session A2E  <b>Convening Partner Session Geomorphology in Analysis and Restoration of Fluvial Systems: Approaches and Tools</b></p> <p>Presented by Cardno ENTRIX</p> <p>Chair: <b>Andrew Simon</b></p> <p><b>Andrew Simon</b>, USA                  Channel disturbance and evolution: controls and implications for stream restoration</p> <p><b>Ian Rutherford</b>, Australia                  Sediment budget modelling: if we get the processes and rates wrong the inferred management actions will be wrong too</p> <p><b>Jon Olley</b>, Australia                  The effect of remnant woodland on sediment and nutrient loads delivered to waterways in subtropical Australia – guide to the extent of rehabilitation required</p> <p><b>Mike Rudd</b>, USA                  Engineering and geomorphic analysis for design of sustainable stream restoration projects</p>
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**1230 – 1330** LUNCH

<p><b>1330 – 1500</b> Room Plenary 1 Session A3A  <b>River Pressures: Pathways to Sustainability</b></p> <p><b>Greg Bain</b>, Australia                  Reflections on managing the Yarra River: context, achievements, challenges and future opportunities</p> <p><b>Mark Coffey</b>, Australia                  Road, rail and infrastructure (or linear networks) – case studies on impacts and opportunities on urban peri/urban waterways</p> <p><b>Rod Hughes</b>, Australia                  Sharing the Swan Canning Riverpark (nicely)</p>	<p>Room 203 Session A3B  <b>Assessing River Health</b></p> <p>Chair: <b>Malcolm Robb</b></p> <p><b>Michael Attard</b>, Australia                  Tamar Estuary and Esk Rivers Ecosystem Health Assessment Program</p> <p><b>Patty Chier</b>, Australia                  MST: new tools to differentiate contamination sources in urban rivers</p> <p><b>Naomi Soustal</b>, Australia                  An integrated monitoring and evaluation framework for SEQ waterways</p> <p><b>Astria Nugrahany</b>, Indonesia                  Water quality monitoring – upstream to downstream, Brantas River Basin</p>	<p>Room 204 Session A3C  <b>River Partnerships: Integrating People, Governance and Policy</b></p> <p>Chair: <b>Jamie Pittock</b></p> <p><b>Jamie Pittock</b>, Australia                  Inflow interception: lessons for Australia from South Africa</p> <p><b>Helen Gordon</b>, South Africa                  Healthy catchments the true water providers</p> <p><b>Hodson Makurira</b>, Zimbabwe                  Food security challenges in the Limpopo Basin</p> <p><b>Emmanuel Kasimbazi</b>, Uganda                  Options for the governance of the Nile River: the case for application of international law</p>	<p>Room 210 Session A3D  <b>Convening Partner Session Transitioning Towards Water Sensitive Cities – Linking Global Initiatives for Cities of the Future 2</b></p> <p>Presented by the Cooperative Research Centre for Water Sensitive Cities</p> <p>Chair: <b>Tony Wong</b></p> <p><b>Briony Ferguson</b>, Australia                  Industry engagement and envisioning of water sensitive cities</p> <p><b>Fjalar de Haan</b>                  Modelling social-technical dynamics in water sensitive cities</p> <p><b>Ana Deletic</b>                  Modelling the evolution of water infrastructure in water sensitive cities</p>	<p>Room 211 Session A3E  <b>River Knowledge: Tools and Techniques For Action</b></p> <p>Chair: <b>Ian Campbell</b></p> <p><b>Keirnan Fowler</b>, Australia                  Decision support for licensing and planning in self-supply irrigation areas</p> <p><b>Catherine Thomson</b>, Australia                  Estuary health: stuck between a drying catchment and a rising ocean</p> <p><b>Sue Campbell</b>, Australia                  Communicating river health: a holistic approach for report cards</p> <p><b>Angus Webb</b>, Australia                  Systematic literature reviews can support decision making for environmental flows</p>
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**1500 – 1530** AFTERNOON TEA

<p><b>1530 – 1700</b> Room Plenary 1 Session A4A  <b>River Management Young Achievers Award</b></p> <p>Sponsored by Thiess Services                  Managed by the International WaterCentre Alumni Network</p> <p>Guest Speaker: <b>Dr Ian Rutherford</b>                  University of Melbourne and DSE, Victoria</p> <p>Finalist Presentations:</p> <p><b>Mark Bachmann</b>, Australia                  Restoration of the Piccaninnie Ponds wetland system (South Australia, 2000-2011)</p> <p><b>Virgilio Hermoso Lopez</b>, Australia                  Systematic rehabilitation planning for freshwater ecosystems</p> <p><b>Celine Steinfeld</b>, Australia                  Hydrological and ecological effects of earthworks in dryland river systems</p>	<p>Room 203 Session A4B  <b>River Health: Healthy Rivers, Healthy Economies, Healthy People</b></p> <p>Chair: <b>Penny Rogers</b></p> <p><b>Anthony Paull</b>, Australia                  Restoring flows and fish passage to the Hawkesbury-Nepean River</p> <p><b>Penny Rogers</b>, Australia                  Determination of the cultural eflows at Kulcurna Conservation Reserve</p> <p><b>Luke Johnston</b>, Australia                  Monitoring aquatic ecosystems within altered flow regimes from hydro-electricity plant</p> <p><b>Mark Bayley</b>, Australia                  Assessing ecosystem health in the Nerang River Estuary</p>	<p>Room 204 Session A4C  <b>Stakeholder Collaboration, Effective Partnerships</b></p> <p>Chair: <b>Leon Metzeling</b></p> <p><b>Michael McCartney</b>, New Zealand                  Manawatu River Leaders' Accord</p> <p><b>Simon Warner</b>, Australia                  Healthy Country: a successful model to reduce sediment entering waterways</p> <p><b>Simon Gartenstein</b>, Australia                  Mersey-Forth Water Management Review – process, learnings and outcomes</p> <p><b>Akira Wada</b>, Japan                  Success factor analysis of river restoration projects in Japan</p>	<p>Room 210 Session A4D  <b>Convening Partner Session River Cities/Advancing IRBM within the Urban Concept</b></p> <p>Presented by the International RiverFoundation</p> <p>Chair: <b>Ania Grobicki</b></p> <p>River Cities, Global Perspectives from:</p> <p><b>Robert Oates</b>, UK</p> <p><b>Fritz Holzwarth</b>, Germany</p> <p><b>Bart Fokkens</b>, the Netherlands</p> <p><b>Odontuya Tsetsegdelger</b>, Mongolia</p> <p><b>Vicente Tuddao</b>, Philippines</p> <p><b>Ania Grobicki</b>, Sweden</p> <p><b>Robert Zimmerman</b>, USA</p>	<p>Room 211 Session A4E  <b>Using Technology and Modelling</b></p> <p><b>Abu Saleh Khan</b>, Bangladesh                  Augmentation of the Buriganda River dry season flows</p> <p><b>Nima Zorriasateyn</b>, Australia                  Modelling the impact of urbanisation on sediment transport and changes to depth of bedload</p> <p><b>Caleb Clarke</b>, New Zealand                  Urban stream characterisation and improvement opportunities in central Auckland (New Zealand)</p> <p><b>John Conallin</b>, Australia                  Using Strategic Adaptive Management to meet the needs of social-ecological thinking</p>
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**1715 – 1900** WELCOME FUNCTION & TRADE EXHIBITION, Melbourne Convention and Exhibition Centre

**River ecology:** beneath the surface

**River health:** healthy rivers, healthy economies, healthy people

**A river runs through it:** designing river cities

**River knowledge:** tools and techniques for action

**River partnerships:** integrating people, governance and policy

**River pressures:** pathways to sustainability

0800 – 1800	REGISTRATION OPEN	
0900 – 1000	Room Plenary 1	Session B1

Chair: **Jamie Pittock**

'Keynote: **Dr David Molden**, International Centre for Integrated Mountain Development (ICIMOD), Nepal  
The Himalayan Water Towers: finding water security in a time of change and uncertainty

Keynote: **Celeste Cantu**, Santa Ana Watershed Project Authority, USA  
Watershed based management: integrating people, resources and policy

1000 – 1030	MORNING TEA	
1030 – 1200	Room Plenary 1 <b>Riverprize Finalists</b>	Session B2A
	Room 203 <b>Convening Partner Session Challenges for River Health and Environmental Flow Management in Highly Modified Rivers</b>	Session B2B
	Room 204 <b>Convening Partner Session Enhancing Integrity For Better Governance In River Basins</b>	Session B2C
	Room 210 <b>Creating Water Sensitive Cities</b>	Session B2D
	Room 211 <b>A River Runs Through It: Designing River Cities</b>	Session B2E

Presented by the International RiverFoundation

Chair: **Matthew Reddy**

Australian Riverprize finalists:  
**Condamine River, QLD**, Carl Mitchell

**Georges River, NSW**, Alison Hanlon

**Swan and Canning Rivers, WA**, Rod Hughes

Thiess International Riverprize finalists:  
**Prespa Lakes, Greece**, Irene Koutseri

**Okavango River, Angola, Namibia and Botswana**,  
Ebenzario Chonguica

**Nushagak River, USA**, Tim Troll

**Willamette River, USA**, Pam Wiley

Presented by the International WaterCentre

Chair: **Angela Arthington**

**Stuart Bunn**, Australia  
Managing modified river basins

**Wang Zhongjing**, China  
The challenges of river basin governance in Chinese Rivers

**Nick Bond**, Australia  
River health assessment in China: recent findings and future opportunities

**Robert Speed**, Australia  
Water resources planning and governance in highly contested rivers

**Panel discussion**  
Elements of effective river health management programs in highly modified systems

Presented by the Water Integrity Network and Global Water Partnerships

Chair: **Ania Grobicki**

**Binayak Das**, Germany  
Enhancing Integrity in river basin management, some examples of success

**Ranjith Ratnayake**, Sri Lanka  
Impact of awareness campaign and legal recourse, sand mining in Sri Lanka

**Eben Chonguica**, Namibia  
Promoting Integrity through planning in Trans-boundary Basins

**Astria Nugrahany**, Indonesia  
Financial stability and accountability, Jasa Tirta Public Corporation, Indonesia

**Phillip Weller**, Australia  
Danube River Commission

Panelists:

**Ania Grobicki, Horst Vogel, Hodson Makurira, Astria Nugrahany, Portia Segomelo**

**Rachel Brown**, Australia  
A GIS based decision support tool for quantifying and managing stormwater runoff in Greater Melbourne linked to modelling in eWater Source Catchments

**Robert Zimmerman**, USA  
Strategy, tactics, and insights: restoring the Urban Charles River

**Schiemer Fritz**, Austria  
Loosening the strict corset: scope for remediation of urban wetlands

Chair: **Ian Rutherford**

**Ian Rutherford**, Australia  
Managing vegetation to protect small towns from floods

**David Lembcke**, Canada  
Towards Water Sensitive Urban Design in an Ontario (Canada) Catchment

**Phillip Johnstone**, Australia  
Waterways in the Liveable City (Double Presentation)

1200 – 1300	LUNCH	
1300 – 1430	Room Plenary 1 <b>A River Runs Through It: Designing River Cities</b>	Session B3A
	Room 203 <b>Convening Partner Session Twinning – Global Knowledge Sharing Partnerships for Improved River Basin Management</b>	Session B3B
	Room 204 <b>Convening Partner Session How to Inspire People to Work Collaboratively – A Practical Theory for Powerful Partnerships</b>	Session B3C
	Room 210 <b>Creating Water Sensitive Cities</b>	Session B3D
	Room 211 <b>Linking Research to Decisions and Policies</b>	Session B3E

Chair: **Phillip Johnstone**

**Ian Penrose**, Australia  
The Yarra's Story as told by its Riverkeeper

**Matthew Davis**, New Zealand  
Catchment management in the Auckland region (New Zealand): scale and programme intervention issues

**Kieron Beardmore**, Australia  
How do you create a 'Water Smart Liveable City'?

**Hannah Pexton**, Australia  
Water Sensitive Cities Study Tour – implementing an integrated water future

Presented by the International RiverFoundation

Chair: **Melanie Ryan**

**Robert Oates**, UK  
Thames – Ganges Twinning

**Gayle Wood**, USA  
Lake Simcoe – Ayuqulia Catchment Twinning

**Asghar Nawab**, India  
Thames – Ganges Twinning

**Richard Hopkins**, Australia  
Mekong – Murray Partnership

**Philip Weller**, Austria  
ICPDR and ORASECOM Twinning

**Nigel Dobson**, Australia  
Tweed Kenya Mentoring Program

Presented by the Australian River Restoration Centre

Chair: **Siwan Lovett**

Facilitated workshop by:

**Siwan Lovett**, Australia

**Peter Rennie**, Australia

Chair: **Phil Edwards**

**Scott Hardy**, Australia  
Urban ABCD Management Framework – new tools for urban water management

**Jamie Ewert**, Australia  
An integrated water management atlas for Melbourne

**Joshua Hale**, Australia  
Predicting the impact of urbanisation induced changes in hydrology on environmental values

**Jackie Myers**, Australia  
Water Sensitive Cities: implications for the reuse of urban stormwater

Chair: **Martin Reed**

**Krey Price**, USA  
Cutting to the core: conservation in the Panama Canal Watershed

**Dominic Blackham**, Australia  
Managing hydromodification to protect the geomorphic form of waterways

**Asitha Katupitiya**, Australia  
Recent floods and salinity of the Murray River

**John McGuckin**, Australia  
Urban sprawl and protection of a nationally threatened fish species

1430 – 1500	AFTERNOON TEA	
1500 – 1630	Room Plenary 1 <b>River Pressures: Pathways to Sustainability</b>	Session B4A
	Room 203 <b>Convening Partner Session Addressing Asymmetry In Transnational Boundary And Urban Water Relationships</b>	Session B4B
	Room 204 <b>Stakeholder Collaboration, Effective Partnerships</b>	Session B4C
	Room 210 <b>Creating Water Sensitive Cities</b>	Session B4D
	Room 211 <b>A River Runs Through It: Designing River Cities</b>	Session B4E

**Darren Bos**, Australia  
Balancing cost with community: are market-based incentives the best approach for stormwater retrofits?

**Sandra Walpole**, Australia  
Water market values in the Hawkesbury-Nepean catchment: an environmental perspective

**Shahriar Rahman**, Bangladesh  
Development of an eco-hydrological framework for the Brahmaputra River

Presented by the International RiverFoundation

Chair: **Don Blackmore**

**Ania Grobicki**, Sweden

**Philip Weller**, Austria

**Jed Mabilog**, Philippines

**Janet Lopez**, Philippines

**Rapule Pule**, South Africa

**Eben Chonguica**, Botswana

**Odontuya Tsetsegdelger**, Mongolia

Chair: **Rod Hughes**

**Chris McCulloch**, Australia  
NSW Central West Council's Salinity and Water Quality Alliance

**Ana Terrazas**, Australia  
Integrating community and government in a rapidly urbanizing Perth: SERCUL

**Louise Duff**, Australia  
Case studies in collaborative wetland monitoring, evaluation and reporting

**Mark Thornley**, Australia  
Dolphin Watch: government, scientists and the Perth community working together

Chair: **Phillip Johnstone**

**Wade Fitzgerald**, Australia  
Rejuvenating an entire inner-city catchment – Norman Creek, Brisbane

**Rob Catchlove**, Australia  
Politics and the media: are they holding our urban waterways back from taking the next big leap?

**Andrew O'Neill**, Australia  
Wave of discontent

**Phil Edwards**, Australia  
What do you get when you cross a city and a water cycle?

Chair: **Ashley Rogers**

**Sanjaykumar Yadav**, India  
Performance evaluation of water supply services of Indian city

**Edith Pat Mbano**, Nigeria  
Compromising environmental sustainability for urbanisation and riverbank activities in Nigeria

**Ashley Roberts**, Australia  
Implication of climate change on costs to waterway management actions

**Maria Endarwati**, Indonesia  
One river, one plan, one management: 'How difficult to adopt it!'

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0800 – 1800  
0900 – 1030 REGISTRATION OPEN  
Room Plenary 1 Session C1

Chair: **Matthew Reddy**  
Keynote: **Prof John Thwaites**, ClimateWorks, Australia  
Riverprize Winners – Australian and Thiess International

1030 – 1100 MORNING TEA  
1100 – 1230 Room Plenary 1 Session C2A Room 203 Session C2B Room 204 Session C2C Room 210 Session C2D Room 211 Session C2E

**River Ecology: Beneath the Surface**

**Yuk Kam Choi**, Hong Kong  
Wetland habitat change in the Shenzhen River cross-boundary catchment, China  
**Rick Stoffels**, Australia  
Restoring river-floodplain connectivity – better biodiversity outcomes from longer reconnection events  
**Anna Lucas**, Australia  
Challenges and success from delivering environmental flows to the Yarra

**Convening Partner Session Integrated Water Management – Current Approaches in Melbourne’s Rapidly Urbanising Environment**

Presented by Melbourne Water  
Chair: **David Ryan**

**River Partnerships: Integrating People, Governance and Policy**

Chair: **Clare Porter**  
**Jane Thomas**, USA  
Assessing the Great Barrier Reef now and into the future  
**Rebecca Nelson**, Australia  
Legal and policy mechanisms for linking groundwater and environmental flows  
**Joanna Linehan**, Australia  
Engaging our customers in a volatile environment  
**Lara O’Dell**, Australia  
Actions for Clean Water (ACWA) – Upper Murrumbidgee

**Convening Partner Session Designing Flood Resilient Cities and Communities**

Presented by Netherlands Water Partnership and the International WaterCentre  
Chair: **Frank Heemskerk**  
**Frank Heemskerk**, The Netherlands  
Designing flood resilient cities and communities: the value of adopting a partnership approach  
**Brendan Nelson**, Australia  
Building a flood resilient Queensland – lessons from the Queensland flood experience  
**Leanne Reichard**, The Netherlands  
Establishing strong knowledge and information bases with the HydroCity Portal: the key to climate adaptive and weather proof water systems  
**Panel discussion and workshop**

**Convening Partner Session Closing the Loop: Advances in Water Management**

Presented by National Water Commission  
Chair: **Stuart Bunn**  
**Stuart Bunn**, Australia  
How can we improve monitoring and evaluation to support adaptive water allocation planning and management?  
**Fran Sheldon**, Australia  
Improving M&E – a low flows perspective  
**Satish Choy**, Australia  
Improving M&E – a management perspective  
**Nick Marsh**, Australia  
Improving M&E – a modelling perspective

1230 – 1330 LUNCH  
1330 – 1500 Room Plenary 1 Session C3A Room 203 Session C3B Room 204 Session C3C Room 210 Session C3D Room 211 Session C3E

**Surface Water, Groundwater Relationships**

Chair: **Angela Arthington**  
**Susanta Chakraborty**, India  
Sustainable water management in water scarcity zones of southwest Bengal  
**Daryl Nielsen**, Australia  
Promoting connectivity fuels food-webs downstream of floodplain forests  
**Ting Fong May Chui**, Singapore  
Restoring baseflow in Singapore canals for natural habitats  
**Joanna Wand**, Australia  
Can environmental flows increase abundance of native vegetation on riverbanks?

**Convening Partner Session A Decade of Waterway Health Management in Victoria: Hard Lessons Learnt**

Presented by Victorian Department of Sustainability and Environment  
Chair: **John Riddiford**  
**Jane Doolan**, Australia  
Introduction  
**Amber Clarke**, Australia  
A decade of waterway health management in Victoria: hard lessons learnt  
**Paulo Lay**, Australia  
Making the best of a good situation – achieving the efficient use of environmental water  
**Beth Ashworth**, Australia  
Be prepared – annual environmental water planning and use of scenarios  
**Adam Bester**, Australia  
Glenelg River Restoration Project – the story so far  
**Trent Wallis**, Australia  
The Barwon through Geelong – managing for river health within an urban setting

**River Partnerships: Integrating People, Governance and Policy**

Chair: **Jamie Pittock**  
**Ian Penrose**, Australia  
Passion, persistence and people-power – the ‘Go Yarra Flow’ story  
**David Lindley**, South Africa  
Beyond compliance to self control: change orientated learning for wetland sustainability practices  
**Vjeko Matic**, Australia  
Developing a ‘best practice’ planning overlay to protect streams against infill development  
**Nathan Johnston**, Australia  
Establishing the Fitzroy Partnership for River Health

**Convening Partner Session Australia – Netherlands Water Challenge**

Presented by Netherlands Water Partnership and the International WaterCentre  
Chair: **Gregor van Essen**  
**Gregor van Essen**, The Netherlands  
Introduction to the Australia – Netherlands Water Challenge  
**Poster presentation** by selected Phase 1 Challenge entrants  
**Wang Zhongjing**, China  
An international perspective  
**Facilitated workshop**

**Linking Research to Decisions and Policies**

**Kath Lynch**, Australia  
Improving water quality through science in a National Coastal Hotspot  
**Cameron Wearing**, Australia  
Seqwater Optimising Multi-barrier treatment  
**Bill Dennison**, Australia  
Connecting management, monitoring and research to solve environmental problems

1500 – 1530 AFTERNOON TEA  
1530 – 1700 Room Plenary 1 Session C4  
**Closing Ceremony**

Chair: **Prof Paul Greenfield AO**, International WaterCentre  
**Australia – Netherlands Water Challenge Encouragement Award**  
**River Management Young Achiever Award Winner**  
**The Great River Debate:** river cities need to make room for their river