



14th International Riversymposium

Brisbane - Australia

26 - 29 September 2011



PROGRAM FOCUS AREAS

Extreme Events	Socio-economic	Ecology	Competing values	Science-policy	Science-community
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MONDAY 26 SEPTEMBER 2011

ROOM	Great Hall 4				
SESSION	A1				
09.00	OPENING CEREMONY CHAIR: Prof Stuart Bunn, Australian Rivers Institute KEYNOTE: Ingwer de Boer, General Director, Programme Directorate Room for River of Rijkswaterstaat - Room for the river, experiences from The Netherlands KEYNOTE: Prof Toine Smits, Head of Department of Sustainable Management of Resources, Radboud University, The Netherlands – Evolution of west European river basin management				
10.30	MORNING TEA EXHIBITION HALL 1				
ROOM	Great Hall 4	Great Hall 3	Brisbane	Bremer	Fitzroy
SESSION	A2C	A2D	A2A	A2B	A2E
11.00	FEATURE: 2011 Queensland Floods Chair: Graeme Milligan, QLD Reconstruction Authority Neil Collins, Australia - Description of the 2011 floods across Queensland Julia Playford, Australia – Water and aquatic ecosystem impacts of extreme weather in Queensland 2011 Craig Evans, Australia - Impacts from a local council perspective Vicki Pethybridge, Australia – The social impacts of the January 2011 floods in Brisbane	E-FLOWS Chair: Deb Nias, NSW Murray Wetlands Working Group Inc Angela Arthington, Australia - Impacts of dams on rivers in South-East Queensland Denis Flett, Australia - Challenges and opportunities for the first Victorian environmental water holder Andrew McDougall, Australia - Holistic approach to provide environmental flows to the Burnett River and Estuary Robert Speed, Australia – Holistic environment flows assessment of the lower Yellow Basin Judy Frankenburg, Australia - Social values of watering small wetlands	THE VALUE OF RESILIENT RIVERS Chair: Selina Ward, The University of Queensland Allan Raine and Carolyn Raine, Australia - Using resilience thinking to develop a framework for riverine prioritisation in regional planning Jim Binney, Australia - Understanding the value of resilience. Lessons from the dismal science Krey Price, Australia - Integrating environmental restoration with flood control upgrades in Hurricane Katrina's aftermath Kevin Graham, Australia - The Condamine River fights back - resilience and ROI Ross Hardie, Australia - Establishing resilience in East Gippsland stream	THE SOCIO-ECONOMIC VALUE OF RIVERS Chair: Nick Edgar, NZ Landcare Trust Kirsty Beckett, Australia – Rio Tinto and Water Johnny Sundstrom, USA - Economic impacts of restoration on communities Ian Varley, Australia - Potential savings from improved river operations in NSW La Vergne Lehmann, Australia - And then there was water! Why water is important to regional tourism Yoshiaki Tsuzuki, Japan - River water quality improvement and economics of "Soft Interventions" in The Yamato-Gawa River Basin Alastair Driver, UK – The diversity, complexity and complementarity of wetland values in Nepal, Laos and	FEATURE - Healthy freshwater ecosystems to guide adaptation of Australian water resources to climate change <i>Presented by: CSIRO, NCCARF</i> Chair: Carolina Casaril, CSIRO Land and Water Michael Spencer, Australia – Water stewardship case studies Hang Zheng, China – Impacts of Climate Change on the Comprehensive Restoration Plan of the Shiyang River Basin Sam Capon, Australia – Climate change adaptation for freshwater biodiversity

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			systems Gemma Cunningham, Australia - From drought to flooding rains – community resilience for the extremes	<i>Cambodia</i>	
13.00	LUNCH EXHIBITION HALL 1				
ROOM	Great Hall 4	Great Hall 3	Brisbane	Bremer	Fitzroy
SESSION	A3B	A3D	A3A	A3C	A3E
14.00	<p>FEATURE - Healthy Waterways – the flood and the future <i>Presented by: Healthy Waterways Ltd</i></p> <p>Chair: Peter Schneider, Healthy Waterways Ltd</p> <p>Peter Schneider, Australia Anna Costas, Australia James Udy, Australia Tony Costantini, Australia Pat Bourke, Australia David Kent, Australia Cr Victor Attwood, Australia Paul Herd, Australia</p>	<p>FEATURE – Engineering the restoration of rivers <i>Presented by: The Australian Society of Limnology, The Murray-Darling Basin Authority and Riversymposium</i></p> <p>Chair: Jason Alexandra, Murray-Darling Basin Authority</p> <p>Barry Hart, Australia – Towards a synthesis - an overview of Australia’s river sciences and their role in informing policy and management</p> <p>Ian Rutherford, Australia – Targets: ‘critical thresholds for action’ are the most important way that science affects government</p> <p>Jason Alexandra and Asitha Katupitiya – Salient truths – the science of salt in the River Murray and its floodplains</p> <p>Nadeem Samnakay and Jason Alexandra, Australia - Restoring Fish passage to 2225 kilometres of the Murray River</p> <p>Jason Alexandra, Australia – The Living Murray Story: Hard and soft engineering for environmental solutions</p>	<p>MODELLING FOR NATURAL DISASTER</p> <p>Chair: Selina Ward, The University of Queensland</p> <p>Dominic Blackham, Australia - Fire and flood: The future of river health under climate change</p> <p>Terry van Kalken, Australia - Application of Models to Extreme Events: Experience from Australia and Internationally</p> <p>Job Nijman, The Netherlands - Flood Risk Mapping in the European Union</p> <p>Sean Hoobin, Australia - Unnatural disasters: the consequences of landscape modification on flooding</p>	<p>FEATURE – Assessing Australian river and wetland health <i>Presented by: National Water Commission</i></p> <p>Chair: Prof Stuart Bunn, Australian Rivers Institute</p> <p>Matt Kendall, Australia – Towards a national assessment of river and wetland health</p> <p>Bill Senior, Australia – The Queensland FARWH trials - outcomes and recommendations</p> <p>Dr Simon Townsend, Australia – River health monitoring in the N.T. and W.A. wet/dry tropics: The FARWH trial</p> <p>Dr Tim Storer, Australia - River health assessment protocol for south-west Western Australia</p> <p>Dr Eren Turak, Australia - A trial of the Framework for the Assessment of River and Wetland Health (FARWH) in wetlands</p> <p>Mike Ronan, Australia - Jurisdictional wetland workshop outcomes and their refined framework for the assessment of river and wetland health model</p>	<p>FEATURE - Challenges and solutions to developing and applying riverine ecosystem services assessments - 1 <i>Presented by: SEQ Catchments, Australia 21, DAFF, IWC, ANU</i></p> <p>Chair: Bill Dennison, University of Maryland Centre of Environmental Science</p> <p>Clare Taylor, Australia – Recognising ecosystem services in water planning</p> <p>Facilitated discussion</p>
15.30	AFTERNOON TEA EXHIBITION HALL 1				
ROOM	Great Hall 4	Great Hall 3	Brisbane	Bremer	Fitzroy
SESSION	A4B	A4D	A4A	A4C	A4E
16.00	<p>FEATURE - Flood Mapping - The use of satellite imagery and other mapping tools during and after the 2011 floods in Queensland <i>Presented by: Department of Environment and Resource Management</i></p> <p>Chair: Greg Claydon, Department of Environment and Resource</p>	<p>FEATURE – River restoration case studies <i>Presented by: The Australian Society of Limnology and Riversymposium</i></p> <p>Chair: Rod Clifford, Melbourne Water</p> <p>Michael Harvey, USA - Multi-purpose channel relocation, Middle Rio Grande,</p>	<p>CLIMATE CHANGE IMPACTS ON RIVERS</p> <p>Chair: Jamie Pittock, Australian National University</p> <p>Shadananan Nair, India - Climate change impact on rivers in the dry zones of India</p> <p>Dolores Hipolito, Philippines - Climate risks and adaptation strategies: flood</p>	<p>FEATURE - Science and policy integration and its application to the development of the draft basin plan <i>Presented by: The Murray-Darling Basin Authority</i></p> <p>Chair: Barry Hart, Murray-Darling Basin Authority</p>	<p>FEATURE - Challenges and solutions to developing and applying riverine ecosystem services assessments - 2 <i>Presented by: SEQ Catchments, Australia 21, DAFF, IWC, ANU</i></p> <p>Chair: Bill Dennison, University of Maryland Centre of Environmental Science</p>

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<p>Management</p> <p>Steve Jacoby, Australia - 2011 Queensland floods and tropical cyclone Yasi - spatial mapping and imagery support</p> <p>Alan Hoban, Australia – Flood of Ideas</p>	<p>New Mexico, USA</p> <p>Stephen Lloyd Australia - Foreshore restoration - putting best management practices into action</p> <p>Dan Borg, Australia - River restoration, fish and Melbourne's iconic river</p> <p>Sirisena Meegasmullage, Sri Lanka - Integrated catchment management strategies for sustainable restoration project</p>	<p>management in tropical rivers</p> <p>Jane Chambers, Australia - Our understanding of climate change and Western Australian rivers and estuaries</p> <p>Jeongkon Kim, Korea - Climate change in Korea and the four major rivers restoration project</p>	<p>Jason Alexandra, Australia – A plotted history of water policy and what led to the Water Act</p> <p>Peter Bridgeman, Australia – MDBA’s modelling future flows to support river restoration and environmental water planning</p> <p>Barry Hart, Australia – facilitated discussion and wrap up</p>	<p>Dixon Landers, USA – A systematic approach for quantifying final ecosystems goods and services at multiple scales</p> <p>Simone Maynard, Australia – A methodology for identifying, measuring and valuing ecosystem services derived from riverine ecosystems</p> <p>Michelle Graymore, Australia – The value of rivers: social indicators for ecosystem services assessment</p>
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17.30 CLOSE

17.45 WELCOME FUNCTION | DECKS RESTAURANT, SOUTH BANK

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TUESDAY 27 SEPTEMBER 2011

ROOM	Great Hall 4				
SESSION	B1				
09.00	CHAIR: Greg Claydon, Department of Environment and Resource Management KEYNOTE: Mr Phil Duncan, Senior Policy Officer, Operational Policy Unit New South Wales, Aboriginal Land Council, Australia - <i>First peoples water engagement council: cultural and spiritual values in rivers</i> CASE STUDY: Yangtze River, China - Dr Guangchun Lei, Dean of School of Nature Conservation, Beijing Forestry University, China - <i>Ecosystem management practices in Poyang Lake Basin</i>				
10.00	MORNING TEA EXHIBITION HALL 1				
ROOM	Great Hall 3	Brisbane	Bremer	Fitzroy	Study Tours 10.30-5.00
SESSION	B2D	B2A	B2B	B2C	
10.30	FEATURE - Australia-China Environment Development Partnership <i>Presented by: The International WaterCentre</i> Chair: Greg Claydon, Department of Environment and Resource Management Lu Zeng, China – Introduction to Australia-China Environment Development Program Nigel Murphy, Australia - Lake Tai water pollution treatment Richard Price, - Wetlands management in China Ian White, Australia - Water ecology compensation policy and mechanisms in China Yongping Wei, Australia – China’s inland river basin – adjusting to change Robert Speed, Australia – River health and environmental flow in China	WATER QUALITY MANAGEMENT OF RIVER BASINS Chair: Julia Playford, Department of Environment and Resource Management James Kaluli, Kenya - Solid waste management and surface water quality in Nairobi, Kenya Christine Coughanowr, Australia - A water quality improvement plan for the Derwent Estuary, Tasmania Jean-Michel Benier, Australia - The impacts of wildfire on the structure and function of upland streams Arief Dhany Sutadian, Indonesia - Applying SWOT for analysis of urban water quality management: a case of metropolitan Bandung	THE CULTURAL VALUES OF RIVERS Chair: Brad Lewis, Arc Consulting Wapulumuka Mulwafu Malawi - Cultural values and beliefs of water in some rivers in southern Malawi Abha Swarup, India - Cultural and spiritual value of rivers in Indian context Sylvie Shaw, Australia - Brisbane River values from the catchment to the bay Jan Maddin, Australia - The Maroochy River mangrove project David Peter, Papua New Guinea - Cultural and spiritual bonding between crocodiles and Sepik River people Elizabeth Bragg, Australia - Reconnecting to country: restoring natural & cultural values with Aboriginal Custodians	FEATURE - 2011 Riverprize Finalists <i>Presented by: International RiverFoundation</i> Chair: Prof Paul Greenfield, The University of Queensland National Riverprize Finalists Will Higham, Project Catalyst, Queensland Mick Smith & Dr Stephen Skull, Sunshine Coast Rivers Initiative, Queensland International Riverprize Finalists Bob Zimmerman, Charles River, MA, USA Hezekiah Allen, Mattole River, CA, USA Chris Chesterfield, Yarra River, Vic, Australia	Healthy Country Study Tour <i>Presented by: SEQ Catchments</i> Water Sensitive Urban Design <i>Presented by: Healthy Waterways</i> Norman Creek 2026 Project Study Tour <i>Sponsored and Presented by: Brisbane City Council</i>
12.30	LUNCH EXHIBITION HALL 1				
ROOM	Great Hall 3	Brisbane	Bremer	Fitzroy	Study Tours Continued
SESSION	B3D	B3A	B3C	B3B	
13.30	FEATURE – River health and environmental flows assessment in Asia - 1 <i>Presented by: The International WaterCentre</i> Chair: Mark Pascoe, The International WaterCentre Panel Discussion Robert Speed, Australia	THE ROLE OF COMMUNITY IN RIVER MANAGEMENT 1 Chair: Alastair Driver, Environment Agency UK Raja Nor Mahani R.S.S., Malaysia - The Sungai Perak integrated river basin management project - connecting river and people Martin O’Dea, Australia - The Clarence	FEATURE – Cultural flows: expressing indigenous values in rivers <i>Presented by: Synexe</i> Chair: Phil Duncan, Aboriginal Land Council Bradley Moggridge, Australia – Cultural value of water Phil Duncan, Australia – Introduction to the First Peoples’ Water Engagement	FEATURE - International carbon markets and market based instruments: funding catchment priorities Anissa Lawrence, Australia Peter Stark, Australia Dave Hoey, Australia Will Fargher, Australia Nick Edgar, New Zealand – The impact of New Zealand’s government and market initiatives on land use	

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<p>Yangbo Sun, China – <i>China’s national river health monitoring and restoration program</i> Candra Samekto, Indonesia – <i>Case study from the Citarum River, Indonesia</i> Nitin Kaushal, India – <i>Assessing environmental flows in the Ganga Basin, India</i> Vinod Tare, India – <i>Preparing the first Ganga River Basin management plan</i> Worawan Sukraroeak, Australia – <i>Environmental flows in the Mekong River</i></p>	<p><i>River way - the making of one of the nation’s great river experiences</i> Catherine Drummond, Australia - <i>Managing waterways in fire affected areas</i> Erina Watene-Rawiri, New Zealand - <i>Engagement between Indigenous communities and industry - a fisheries habitat restoration project</i></p>	<p><i>Council</i> Lorraine Dixon, New Zealand – <i>Exploring Indigenous tools and indicators for Indigenous environmental outcomes</i> Melissa George, Australia Debbie Flower, Australia</p>			
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15.00 AFTERNOON TEA | EXHIBITION HALL 1

ROOM	Great Hall 3	Brisbane	Bremer	Fitzroy	Study Tours Continued
SESSION	B4D	B4A	B4C	B4B	

<p>15.30 FEATURE – River health and environmental flows assessment in Asia - 2 <i>Presented by: The International WaterCentre</i> Chair: Prof Stuart Bunn, Australian Rivers Institute Robert Speed, Australia – <i>Key lessons and pathways for implementing river health and environmental flow programs in Asia/ Pacific</i> Panel Discussion Fiona Chandler, Australia Vinod Tare, India Le Duc Trung, Vietnam Yangbo Sun, China Stuart Bunn, Australia – <i>The way forward</i></p>	<p>THE ROLE OF COMMUNITY IN RIVER MANAGEMENT 2 Chair: Dr Bruce Missingham, International WaterCentre Catherine Gross, Australia - <i>Justice in water management</i> Patrick Whitesell, New Zealand - <i>Te Karamu stream enhancement; methods, lessons and adaptive restoration</i> Lorraine Dixon, New Zealand - <i>An Indigenous community’s aspirations for the Waikato River in Aotearoa-New Zealand</i> Somporn Kuendee, Thailand - <i>“Villagers Research” on the Mun River, Thailand</i></p>	<p>FEATURE – Multiple values of tropical rivers <i>Presented by: Tropical Rivers and Coastal Knowledge</i> Chair: Murray Radcliffe, National Water Commission Michael Douglas, Australia - <i>New information on socio-economic values of Australia’s tropical rivers</i> Mark Kennard, Australia - <i>Ecological values of Australia’s tropical rivers</i> Mona Liddy and Lizzie Sullivan, Australia - <i>Combining Indigenous knowledge and western science for environmental water allocation planning</i> Peter Cook, Australia - <i>Comparing different values to an NRM plan for the Fitzroy River catchment, WA</i> Francis Pantus, Australia - <i>Using Management Strategy Evaluation to examine trade-offs between different values in water allocation planning for the Daly River, NT</i></p>	<p>FEATURE - Integrated basin management in practice; global case studies from International WaterCentre Water Leaders <i>Presented by: The International WaterCentre Alumni Network</i> Chair: Karen Delfau, Synexe Consulting Cameron Davidson, USA - <i>Water and gender in the Middle East: a case study in Bedouin communities of Israel, Jordan and the West Bank</i> Macpherson Nthara, Malawi - <i>Rainwater harvesting for a sustainable urban water supply in Malawi</i> Jan Janosch Förster, Germany - <i>Integrated policy - disintegrated practice: a livelihoods-policy-interplay analysis of IWRM implementation in South Africa</i> Matt Moore, USA - <i>Saving water and energy through consumer incentives in the United States north west</i> Penny Godwin, Australia - <i>Integrated catchment management and economic development in Sumba, Indonesia</i></p>	
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17.00 CLOSE

19.00 RIVERPRIZE GALA DINNER | GREAT HALL 4

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WEDNESDAY 28 SEPTEMBER 2011

ROOM	Great Hall 4				
SESSION	C1				
09.00	<p>CHAIR: Prof Paul Greenfield, AO, The University of Queensland International Riverprize winner – Charles River, USA CASE STUDY: Mississippi River, USA - Dr Denise Reed, Department of Earth and Environmental Sciences, University of New Orleans, USA - <i>The Mississippi flood of 2011: opportunity for a new approach to management?</i></p>				
10.00	MORNING TEA EXHIBITION HALL 1				
ROOM	Great Hall 4	Great Hall 3	Brisbane	Bremer	Fitzroy
SESSION	C2B	C2C	C2A	C2D	C2E
10.30	<p>FEATURE - Murray-Darling Basin: non-government perspectives on management <i>Presented by: Centre for Water Economics and Environmental Policy, ANU</i></p> <p>Chair: Greg Raisin, National Water Commission</p> <p>Michael Spencer, Australia - <i>How could voluntary water stewardship standards contribute to better management of the MDB</i> Robert Speed, Australia - <i>The alternative to the Murray Darling Basin Plan</i> Jamie Pittock, Australia - <i>A priority for river management in the Murray-Darling Basin – ecosystem services</i> Catherine Gross, Australia - <i>Adaptation to climate change and Coorong and Lower Lakes</i> Kim Jenkins, Australia - <i>Climate change adaptation limits in floodplain wetlands: the Macquarie Marshes</i> Jamie Pittock, Australia - <i>Murray-Darling Basin: freshwater ecosystem conservation options in an era of climate change</i> Mark Hamstead, Australia - <i>The Murray-Darling Basin Plan - ensuring the investment is worthwhile</i></p>	<p>FEATURE - Advancing integrated river basin management: status of integrated river basin management <i>Presented by: The Nature Conservancy, IRF, Global Environment Facility, International Commission for The Protection of The Danube River, Orange-Senqu River Commission</i></p> <p>Chair: Don Blackmore, eWater CRC</p> <p>Video presentations describing integrated river basin management followed by facilitated discussion.</p> <p>Waikato River, New Zealand – New Zealand Landcare Trust Piracicaba, Capivari and Jundiá River Basins - Consórcio PCJ Yangtze River, China – The Nature Conservancy Nile River Basin - Kabano Research and Development Centre Seine River, France (A Brazilian View) - Agence de l'eau Seine-Normandie Mississippi River, US – US Army Corps of Engineers, Mississippi Valley Division Nairobi River - Tweed Kenya Mentoring Program</p>	<p>RIVER MANAGEMENT PLANS AND STRATEGIES</p> <p>Chair: Alastair Driver, Environment Agency</p> <p>Aizhong Ding, China - <i>River's function classification plan in China</i> Nicole Ramilo, Australia - <i>Total water cycle management plan for Moreton Bay Regional Council</i> Roxanne Shadbolt, Australia - <i>River protection strategy - developing an integrated monitoring, evaluation and reporting framework</i> John Conallin, Australia - <i>The Edward-Wakool System- an emergent adaptive management approach</i> David Moore, Australia - <i>Waterway management on the Sunshine Coast, Queensland - a partnership approach</i> Asghar Nawab, India - <i>On the water front: integrating science with policy and practice</i></p>	<p>INTEGRATING SCIENCE FOR SUSTAINABLE RIVER MANAGEMENT</p> <p>Chair: Karen Delfau, Synexe Consulting</p> <p>Claire Andersen, Australia - <i>Healthy partnerships, healthy reef</i> Jennifer Bellamy, Australia - <i>Linking science, policy and community</i> Joanne Ling, Australia - <i>The uptake and use of science-based tools and knowledge in water and wetland management</i> William C Dennison, USA - <i>Innovations in environmental synthesis, communication, reporting and governance</i> James Patterson, Australia - <i>Understanding 'implementation capacity' in catchment management</i> David Lindley, South Africa - <i>Using expansive learning to strengthen wetland management in a South African forestry company</i></p>	<p>FEATURE – Maintaining or restoring wetland values – 1 <i>Presented by: Society of Wetland Scientists (Australasian Chapter)</i></p> <p>Chair: David Rissik, Griffith University</p> <p>Greg Barber, Australia - <i>The York Plains - protection of a hidden gem</i> Philip Haines, Australia - <i>Success emerging in rehabilitation of Hexham Swamp Estuarine Wetland</i> Jan-Olaf Meynecke, Australia - <i>Stay connected – following fish migration in tidal wetlands</i> Damian McCann, Australia - <i>Coastal wetland rehabilitation for multiple use</i> Mark Bayley, Australia - <i>Coastal rehabilitation and infrastructure projects creating a win win scenario</i> Greg Fisk, Australia - <i>Climate change adaptation in coastal wetlands</i></p>

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12.30 LUNCH EXHIBITION HALL 1					
ROOM	Great Hall 4	Great Hall 3	Brisbane	Bremer	Fitzroy
SESSION	C3B	C3C	C3A	C3D	C3E
13.30	<p>FEATURE – Advancing hydropower sustainability <i>Presented by: members of the Hydropower Sustainability Assessment Forum</i></p> <p>Chair: Dr Joerg Hartmann, WWF</p> <p>Bruce Missingham, Australia - <i>An illustration of hydropower sustainability issues from the Pak Mun Dam, Mekong River Basin</i></p> <p>Helen Locher, Australia - <i>Development of assessment tools and approaches for hydropower sustainability issues</i></p> <p>Tira Foran, Australia - <i>Hydropower sustainability issues in the Mekong River Basin</i></p> <p>Michael Simon, Australia - <i>Application of the hydropower sustainability assessment protocol to the Xayaburi Dam, Mekong River</i></p> <p>Joerg Hartmann, Germany - <i>The Hydropower Sustainability Assessment Council</i></p> <p>Cameron Ironside, UK - <i>International hydropower association and building sustainability partnerships</i></p>	<p>FEATURE - Advancing integrated river basin management: science and policy for healthy river basins <i>Presented by: The Nature Conservancy, IRF, Global Environment Facility, International Commission for The Protection of The Danube River, Orange-Senqu River Commission</i></p> <p>Chair: Bill Dennison, University of Maryland Centre of Environmental Science</p> <p>Peter Schneider, Australia</p> <p>David Galat, USA - <i>Adaptive Management: Linking Science to Policy for Integrated River Basin Management</i></p> <p>Le Duc Trung, Vietnam</p> <p>Mykola Melenevskiy, Austria</p> <p>Fiona Chandler, Australia</p>	<p>HOW DO WE MANAGE THE COMPETING VALUES OF OUR RIVERS</p> <p>Chair: Mark Pascoe, International WaterCentre</p> <p>Jim Sinner, New Zealand - <i>Reductionist vs pluralist concepts of value In freshwater governance</i></p> <p>Krey Price, Australia - <i>Balancing flood risks against environmental benefits in removing or maintaining vegetation on levees</i></p> <p>Leila Loder, Australia - <i>The power of collaboration in managing the rivers' competing values: public watershed councils in the Russian Far East</i></p> <p>Jan Janosch Förster, Germany - <i>A Livelihoods-Policy-Interplay Analysis (LPIA) of IWRM Implementation in the Crocodile (West-) Marico Water Management Area in South Africa</i></p>	<p>SOCIO-ECONOMIC VALUES: HOW DO WE ACCOUNT FOR RIVERS?</p> <p>Chair: Nancy Esler, Department of Environment and Resource Management</p> <p>David Hoey, Australia - <i>Real-time salinity management: the Hunter River Salinity Trading Scheme</i></p> <p>Helen Watts, Australia - <i>A framework for the setting of ecological objectives for water sharing plans in NSW</i></p> <p>Lisa Kitson, Australia - <i>Prioritising effort in managing urban waterways using the trajectories approach</i></p> <p>Sean Hanley, Australia - <i>Analysing general purpose water accounting reports</i></p>	<p>FEATURE – Maintaining and restoring wetland values – 2 <i>Presented by: Society of Wetland Scientists (Australasian Chapter)</i></p> <p>Chair: David Rissik, Griffith University</p> <p>Neil Saintilan, Australia - <i>Improving decision support for environmental flows in three large Ramsar Wetlands</i></p> <p>Mark Bayley, Australia - <i>Reduction of diffuse pollution from agricultural catchment via constructed wetlands in the Great Barrier Reef Catchment</i></p> <p>David Lindley, South Africa – <i>Making science real – using state of environment reporting to improve practice</i></p>
15.00 AFTERNOON TEA EXHIBITION HALL 1					
ROOM	Great Hall 4	Great Hall 3	Brisbane	Bremer	Fitzroy
SESSION	C4E	C4C	C4A	C4B	C4D
15.30	<p>FEATURE - Does science really matter in environmental water management? <i>Presented by: Environmental Water Managers Specialist Network of the Australian Water Association</i></p> <p>Chair: Greg Raisin, National Water Commission</p> <p>Panel Discussion</p> <p>Paula D'Santos, Australia</p> <p>Judy Frankenburg, Australia</p> <p>Paul Harding, Australia</p> <p>Elizabeth Heagney, Australia</p>	<p>FEATURE - Advancing integrated river basin management: capacity and knowledge management <i>Presented by: The Nature Conservancy, IRF, Global Environment Facility, International Commission for The Protection of The Danube River, Orange-Senqu River Commission</i></p> <p>Chair: Johnny Sundstrom, The Siuslaw Institute Inc</p> <p>Andrea Merla, USA</p> <p>Michael Reuter, USA - <i>A case study of</i></p>	<p>COMPETITION OR COOPERATION - HOW WE COMPETE FOR RIVERS</p> <p>Chair: Brad Lewis, ARC Consulting</p> <p>Ben McMullen, Australia - <i>Building productive partnerships with community based environment organisations</i></p> <p>Natalie Clark, Australia - <i>Managing the impacts of river damming - the competing values for freshwater turtles</i></p> <p>Penny Godwin, Australia - <i>Multi-stakeholder forum to tackle catchment</i></p>	<p>FEATURE – Coals seam gas and water: physical, regulatory and social dimensions of the issues, and their intersection</p> <p>Chair: Dr Lisa Brennan, CSIRO</p> <p>Catherine Moore, Australia - <i>Hydrology and related CSG impacts</i></p> <p>Sorada Tapsuwan, Australia - <i>Water value and values</i></p> <p>John Ward, Australia - <i>Water governance</i></p>	<p>FEATURE – Improved water quality using a basic erosion and sediment control training recipe <i>Presented by: Sunshine Coast Regional Council</i></p> <p>Chair: David Moore, Sunshine Coast Regional Council</p> <p>Peter Armstrong, Australia</p>

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		<i>sharing knowledge between Mississippi and Yangtze Rivers</i> Philip Weller , Austria - Knowledge sharing between the Danube and Orange-Senqu River Commissions Fiona Chandler , Australia - The Healthy Rivers Knowledge Hub	<i>management in the Kambiniru River, Sumba, Indonesia</i>		
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17.00 SESSIONS CLOSE

17.15 KEYNOTE INTERACTIVE | EXHIBITION HALL 1

ROOM	Brisbane	Bremer
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	KEYNOTE INTERACTIVE <ul style="list-style-type: none"> • Toine Smits • Barry Hart • Denise Reed • Phil Duncan • Guangchun Lei <p>Book in at the Registration Desk to secure your place on site.</p>	PRESENTED POSTERS <p><i>Chair: Craig Walton, Department of Environment and Resource Management</i></p> <p>Belinda Hodges, Australia - Getting connected - urban creek rehabilitation in Cocked Hat Creek Cherie Campbell, Australia - Vegetation response to environmental water allocations and natural flows Geoff Earl, Australia - Goulburn River flow planning and management 2010-11 – experiences and learnings Rosemarie Mannik, Australia - Case study of a basic model to forecast river flows and salinities</p>
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17.45 BREAK

18.00	KEYNOTE INTERACTIVE <ul style="list-style-type: none"> • Toine Smits • Barry Hart • Denise Reed • Phil Duncan • Guangchun Lei <p>Book in at the Registration Desk to secure your place on site.</p>	PRESENTED POSTERS <p><i>Chair: Craig Walton, Department of Environment and Resource Management</i></p> <p>Julie-Anne Harty, Australia - Creation of watering regimes to protect ecosystem condition in the Murray-Darling Basin Matthew Owens, Australia - Modelling engineering options for improved water quality in the Collie River Catchment Cassandra Davis, Australia - Recovery of macro invertebrates in river systems after a decade of drought Li Wen, Australia - From hydrodynamic to hydrological model: reconstructing long-term wetland hydrological regimes</p>
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18.30 INTERACTIVE CLOSE

PROGRAM FOCUS AREAS

Extreme Events	Socio-economic	Ecology	Competing values	Science-policy	Science-community
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THURSDAY 29 SEPTEMBER 2011	
ROOM	Great Hall 4
SESSION	D1
09.00	<p><i>Chair: Matthew Reddy, International RiverFoundation</i> KEYNOTE: Prof Barry T Hart, Member of the Murray Darling Basin Authority, Australia - <i>The Murray-Darling Basin Plan: a paradigm shift in river basin planning and management</i> National Riverprize winner – Sunshine Coast Rivers Initiative</p>
10.00	MORNING TEA EXHIBITION HALL 1
ROOM	Great Hall 4
SESSION	D2
10.30	<p>CLOSING CEREMONY <i>Chair: Prof Stuart Bunn, Australian Rivers Institute</i> Poster Plate Award The Great River Debate - The solution to flood management is better engineering. Closing Comments</p>
12.30	END

PROGRAM FOCUS AREAS

Extreme Events	Socio-economic	Ecology	Competing values	Science-policy	Science-community
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POSTER PRESENTATIONS

Name	Program Focus	Country	Paper Title
Carolina Casaril	Extreme Events	Australia	Freshwater biodiversity and water resources: climate change impacts and adaptation initiatives
Susanta Kumar Chakraborty	Ecology	India	Ecological changes of an ecorehabilitated Delta of Hooghly Estuary, India
Rhys Collins	Ecology	Australia	Managing for change – Thompson Creek, Victoria
Rhys Collins	Ecology	Australia	Communities engaged in estuary monitoring – Painkalac Creek, Victoria
Anna Cronin	Ecology	Australia	Restoring critical habitat of the endangered Booroolong Frog in the Namoi Catchment
Pathmalatha Dias	Ecology	Sri Lanka	Hydro meteorological network of Sri Lanka
Tom Espinoza	Ecology	Australia	Spawning of the threatened Australian Lungfish in a heavily-regulated river
Ekah Ekwele Faustin	Science-Community	Cameroon	When community take the lead to save their Abo River
Ann-Marie Jolley	Ecology	Australia	Managing acidification risk using GIS in the River Murray Lower Lakes
Stephen Lloyd	Ecology	Australia	Helena River environmental flows: the race to build a case
Andrew McDougall	Competing Values	Australia	Discovery of significant groundwater flow into the Burnett and Elliott Rivers
Sirisena Meegasmullage	Competing Values	Sri Lanka	Climate resilience to face the challenge of food production
Dennis O’Grady	Socio-Economic	Canada	Socio-Political conditions for successful water quality trading
Chengzhong Pan	Ecology	China	The methods of river function regionisation in China
Belinda Robson	Extreme Events	Australia	Is intermittent stream recolonisation driven by drought refuges or dispersal?
Russell Seaman	Ecology	Australia	Using vegetation to restore the ecological character of the Lower Lakes, SA
Phong Thai	Ecology	Australia	Trends in organic contaminants from SEQ water storages, the Brisbane River and Moreton Bay
Jane Thomas	Ecology	USA	Lessons learned from the natural resource condition assessment program