

12th International Riversymposium

Brisbane Australia 21 - 24 September 2009



MONDAY 21 September 2009

TIME	SESSION	ROOM	
09:00	A1	GH1 <i>Entry via Door 6</i>	WELCOME & PLENARY:- Phil Anthony, USA - Director, Orange County Water District, California Ken Matthews AO, Australia - Chair and Chief Executive Officer, National Water Commission
10:30	Morning Tea		
11:00	A2A	GH1 <i>Entry via Door 6</i>	FEATURE: THE POTENTIAL OF THE NORTH? FLOWS FOR RIVERS AND ESTUARIES: UNDERSTANDING THEIR VALUES Chair - Michael Douglas Richard Cresswell, Australia - How much water is there now and in the future? Stuart Bunn, Australia - Ecological watering requirements in northern Australia Ian Halliday, Australia - The significance of water flows for estuaries Mark Kennard, Australia - Environmental flows case study in the Daly River
	A2B	GH2 <i>Entry via Door 3</i>	FEATURE: THE WATER-ENERGY-CLIMATE NEXUS: GLOBAL AND AUSTRALIAN CHALLENGES (DHI, ANU, NWC, DEPARTMENT OF ENVIRONMENT AND RESOURCE MANAGEMENT, UQ ADVANCED WATER MANAGEMENT CENTRE & INTERNATIONAL WATERCENTRE) Chair - Bruce Hooper Torkil Jønch Clausen, Denmark - Water, energy and climate change – an international discourse update Jamie Pittcock, Australia - Preliminary recommendations and conclusions from the COST-ANU initiative Deborah Marsh, Australia - Water and energy implications of the Australian government's Carbon Reduction Policy Will Fargher, Australia - The capacity of the NWI to account for energy, water and climate trade-offs Randall Cox, Australia - Water, energy, climate change. Queensland perspectives
	A2C	M2	GOVERNANCE Chair - Gayle Wood Jacinta Ruru, New Zealand - Indigenous governance of rivers: an Aotearoa New Zealand co-management solution Jessica C Salas, Philippines - A community's way of managing conflicts in the watershed of Tigum and Aganan Rivers: a case study in the Philippines Denielle Warwick, Australia - Review of blue-green algae governance arrangements in Victoria Sam Brooke, Australia - Removal of microcystin toxins in drinking water using chlorine (Young Water Scientist Finalist)

	A2D	M9	<p>INDUSTRY AND RIVERS – KEEPING THE BALANCE RIGHT <i>Chair – Natalie Baker</i> Julie Sanderson, Australia - Partnership3 – an effective approach to engaging industry in addressing urban waterway health Andrew Gadd, Australia - Biorefinery wastewater remediation by electrocoagulation (Young Water Scientist Finalist) Mary Howard, Australia - Aquatic ecosystem productivity relies on water managers and sustainable cities</p>
	A2E	M1	<p>UPSTREAM EFFECTS ON DOWNSTREAM COMMUNITIES <i>Chair – Tony Church</i> Tanya Doody, Australia - Willow impacts on Australian water resources Brian Stockwell, Australia - Pumicestone FarmFLOW - implementing an enhanced model for integrated catchment management Aaron Hawdon, Australia - Will improved land management improve water quality delivered to the Great Barrier Reef? Ian Campbell, Australia - Environmental impact assessment and impacts of large dams on the Mekong River</p>
12:30	Lunch		
14:00	A3A	GH1 <i>Entry via Door 6</i>	<p>FEATURE: THE POTENTIAL OF THE NORTH? INDIGENOUS WATER ISSUES <i>Chair - Ken Matthews</i> Joe Ross, Australia - Indigenous access to water in northern Australia Poh-Ling Tan, Australia - Planning and legal considerations for water in northern Australia Lorrae McArthur, Australia - Economic opportunities for northern Australia Marcus Finn, Australia - Case study of indigenous values and water flows in the Fitzroy and the Daly</p>
	A3B	GH2 <i>Entry via Door 3</i>	<p>FEATURE: THE WATER-ENERGY-CLIMATE NEXUS: GLOBAL AND AUSTRALIAN CHALLENGES 2 (DHI, ANU, NWC, DEPARTMENT OF ENVIRONMENT AND RESOURCE MANAGEMENT, UQ ADVANCED WATER MANAGEMENT CENTRE & INTERNATIONAL WATERCENTRE) <i>Chair - Bruce Hooper</i> John Cole, Australia - The water, energy, climate change nexus- challenges and opportunities for the 21st century Nathan Cammerman, Australia - Integrated water resource management and the water energy climate change nexus Stephen Kenway, Australia - Indirect energy impacts of urban water choices Facilitated Dialogue and Conversation Mapping Discussion leaders - Brian Head & Jamie Pittock, Australia Rapporteur - Nathan Cammerman Brian Head, Australia - A national policy response Bruce Hooper, Australia - Where to from here ...</p>
	A3C	M1	<p>UPSTREAM EFFECTS ON DOWNSTREAM COMMUNITIES <i>Chair – John Marshall</i> Santosh Nepal, Germany - Linkages between watershed and irrigation: case studies of management practices Jeff Camkin, Australia - Supporting river basin planning in the Guadiana, Portugal, through the UNESCO-IHP HELP Program Shrikant Limaye, India - Watershed development and upstream-downstream conflicts in Basalt (Deccan Trap), India – Role of UNESCO-IUGS-IGCP Project GROWNET. Medhani Ayoma Jayakody, Sri Lanka - Critical analysis on issues in middle reach of Kalu Ganga</p>

	A3D	M9	WATER MARKETS <i>Chair – Ross Fryar</i> Tom Rooney, Australia - The Australian water market: challenges and opportunities Jeff Connor, Australia - Managing Murray water for social, economic and ecological resilience Greg White, Australia - Streambank rehabilitation for Tuggerah Lakes catchment - a strategic approach to estuarine health Sonia Leonard, Australia – Patterns of holocene floodplain deposition in Australia’s Wet Tropics: Implications for sediment delivery to GBR (Young Water Scientist Finalist)
	A3E	M2	THE PEOPLE ISSUES – COMMUNITY ENGAGEMENT <i>Chair – Brad Lewis</i> Leon Barmuta, Australia - Implementing systematic conservation plans: overcoming the impediments? Donovan Storey, Australia - Incompatible partners? Communities and river systems in urban Asia Imogen Fullagar, Australia - CORE Identity: for when managing water is about managing people. Nor Azlin Tajuddin, Australia - A big drain or a river?: Attachment and a community's engagement
15:30	Afternoon Tea		
16:00	A4	GH1 <i>Entry via Door 6</i>	PLENARY:- <i>Chair – Stuart Bunn</i> Mike Muller, South Africa - Integrated water resource management as an approach that from source to sea - is it working? Case study – Amur River, Russia, Dr Yury Darman - The Amur River: from Daurian steppe to the Sea of Okhotsk Seqwater Award
17:30	Close		
17.45	Welcome function		

TUESDAY 22 September 2009			
TIME	SESSION	ROOM	
08:30	B1	GH1 <i>Entry via Door 2</i>	PLENARY:- <i>Chair – James Horne</i> Jonathan Kaledin, USA - An international water stewardship organization: a critical tool for the future Charles Vorosmarty, USA - Water-linked threats to humans and biodiversity: Riversymposium themes on the world stage Case study - Rhine River, Germany, Dr Anne Schulte-Wuelwer-Leidig - From an open sewer to a living Rhine River
10:00	Morning Tea		
10:30	STUDY TOURS – 10.30-17.30 1. Moreton Bay Environment Management 2. Water Management for South East Queensland		

	B2A	M2	<p>WATER QUALITY – MAINTENANCE AND MONITORING Chair – Graeme Milligan Paul McAntee, Australia - Brisbane City Council's journey towards a WaterSmart City Amanda Posselt, Australia - Review of traditional water quality indicators (E. Coli & Enterococci) for assessing the Yarra River Yoshiaki Tsuzuki, Japan - Pollutant discharge reduction with community participation in the Yamato-gawa River Cate Simpson, Australia - Operational remote sensing for improved aquatic health assessments and reporting</p>
	B2B	M1	<p>FEATURE: SHAPING THE FIRST BASIN-WIDE PLAN TO SUSTAINABLY MANAGE RIVERS AND WATER RESOURCES (MURRAY-DARLING BASIN AUTHORITY) Chair – Michael Wilson Rob Freeman, Australia - Overview of the MDBA and the Basin Plan Barry Hart, Australia - Environmental planning and the Basin Plan Jody Swirepik, Australia - Environmental management and The Living Murray Bill Young, Australia - Climate change projections for water availability in the MDB</p>
	B2C	GH2 Entry via Door 3	<p>CLIMATE CHANGE AND RIVERS – DEALING WITH DROUGHTS, FLOODS AND UNCERTAINTIES Bruna Gumiero, Italy - River restoration: an European picture Pressy Polah Asio, Uganda - Ripple effects of climate change on the River Nile Basin Trevor Lumsden, South Africa - Seasonal hydrological forecasting in the Berg water management area of South Africa Emily Brewer, Australia - An innovative water quality monitoring field program: adaptive and efficient techniques for a changing climate</p>
12:00	Lunch		
13:30	STUDY TOURS continued		
	B3A	GH2 Entry via Door 3	<p>FEATURE: ADAPTATION TO CLIMATE CHANGE IN DEVELOPING COUNTRIES: A LAND AND WATER MANAGEMENT CHALLENGE (DHI, GLOBAL WATER PARTNERSHIP & AUSAID) Chair – Torkil Jønch Clausen Welcome and introduction to Session by co-chairs Torkil Jønch Clausen - Dialogue on adaptation to climate change for land and water management, and the Nairobi Guiding Principles Mike Muller, South Africa - Adaptation to climate change: a water resources management challenge Brian Dawson, Australia - Climate and water: the AusAID approach to adaptation in the water sector Reba Paul, Bangladesh - The South Asian country perspective on adaptation planning and actions Kien Tran Mai, Vietnam - A Mekong river basin trans-boundary perspective on adaption planning and actions through a collaborative regional framework <i>Facilitated discussion focused on the way forward: ‘how can the “Brisbane Group” coordinate their efforts and contribute to better climate change adaptation in the developing countries of Asia-Pacific and elsewhere?’</i></p>

	B3B	M1	<p>FEATURE: THE TASMANIAN RIVER CONDITION INDEX (NRM SOUTH & TASMANIAN GOVERNMENT) Chair – Leon Barmuta Aniela Grun, Australia - Tasmanian river condition index: An improved approach to assess river condition Alexandra Spink, Australia - Physical form: developing pre-European geomorphological benchmarks for Tasmanian rivers Johanna Slijkerman, Australia - Streamside zone: assessing the condition of Tasmania’s diverse riparian vegetation Bryce Graham, Australia - Hydrology: flow stress ranking with Tasmanian daily time step models Aniela Grun, Australia - Aquatic life: bugs, fish and algae in Tasmanian Rivers Aniela Grun, Australia - Adding it all up – results and next steps</p>
	B3C	M2	<p>THE PEOPLE ISSUES – COMMUNITY ENGAGEMENT Chair – Di Tarte Khorshed Alam, Australia - Public attitudes and perceptions toward river ecosystem restoration Ingrid de Lacy, Australia - Preparation for integrated water resource management in Vanuatu: strengthening community roles Henk Sterk, Turkey - Capacity building support to the water sector in Turkey Arthur Gorrie, Australia - Saving the Mary: hidden reserves of strategy, talent and determination. Melanie Kelly, Australia - A whole of catchment and whole of ecosystem planning model for southern Tasmania Christine Hughes, Australia - Good stakeholder consultation results in better environmental flow outcomes</p>
15:30	Afternoon Tea		
16:00	STUDY TOURS continued		
	B4A	GH2 <i>Entry via Door 3</i>	<p>FEATURE: BUILDING AUSTRALIA’S NEW RIVER BASIN MODEL (E-WATER CRC) Chair – Gary Jones David Waters, Australia Gary Jones, Australia Peter Wallbrink, Australia Tony McAlister, Australia</p>
	B4B	M2	<p>FEATURE: ACKNOWLEDGEMENT OF 100 YEARS OF DATA COLLECTION IN QUEENSLAND (DEPARTMENT OF ENVIRONMENT AND RESOURCE MANAGEMENT) Chair – Greg Long Paul Martin, Australia - Celebration of 100 years of hydrography in Queensland Dave Free, Australia - The history of ground-water data collection in Queensland John Ruffini, Australia - Uses of hydrometric data David Nicholls, Australia - Future data collection requirements</p>

	B4C	M1	<p>FEATURE: RIVER DIALOGUE WITH RIVERPRIZE HEROES AND INTERNATIONAL RIVERFOUNDATION AMBASSADORS (INTERNATIONAL RIVERFOUNDATION) <i>Chair – Natalie Baker</i> <i>Facilitator – Brad Lewis</i> Alistair Driver, United Kingdom & Nicole Portley, USA - Stakeholder engagement and capacity building in integrated catchment management Philip Weller, Austria & Olita Ogonjo, Kenya - Partnerships for river restoration Vikki Uhlmann, Australia & Mike Rayner, Australia - Future management of rivers</p>
17:30	Close		
18:45	Riverprize Presentation Dinner		

WEDNESDAY 23 September 2009			
TIME	SESSION	ROOM	
8:30	C1	GH1 <i>Entry via Door 6</i>	<p>PLENARY:- International Thiess Riverprize winner Case Study – Han River, Korea, Dr Sung Kim - Outcomes and prospects for integrated Han River basin management in Korea National Riverprize winner Young Water Scientist Award Presentation</p>
10:00	Morning Tea		
10:30	C2A	M9	<p>GOVERNANCE AND INSTITUTIONAL ARRANGEMENTS <i>Chair – Ian Prosser</i> Claudia Hellberg, New Zealand - Integrated catchment management planning in the Auckland region, New Zealand Herman Idrus, Indonesia - Water resources regulation on several region in Citarum River Basin, Indonesia Nicola Wheen, New Zealand - Changing New Zealand's freshwater allocation law: pressures and implications</p>
	C2B	M2	<p>FEATURE: THE FITZROY BASIN – WHERE CATTLE, COAL AND CROPS MEET CORAL (FITZROY BASIN ASSOCIATION INC.) <i>Facilitator – Michael Bent</i> Michael Bent, Australia - Introductions & let's have a yarn Suzie Christensen, Australia - It will evolve - from whoa to go in the Fitzroy Basin Nathan Johnston, Australia - Source to sea results from improved land management – Fitzroy Basin Claire Rodgers, Australia - Reef rescue strategy in the Fitzroy Basin – an integrated approach Suzie Christensen, Australia - Fitzroy Basin coal mines cumulative impacts study – influencing policy</p>

	C2C	GH2 Entry via Door 3	<p>FEATURE: COMMUNITY PARTICIPATION IN INVASIVE FISH SPECIES MANAGEMENT (DEPARTMENT OF ENVIRONMENT AND RESOURCE MANAGEMENT & INVASIVE ANIMALS CRC) Chair – Wayne Fulton Francine Holt, Australia – Would you like fries with that? Zafer Sarac, Australia – United we stand, divided we fall Malcom Pearce, Australia – “Eureka I’ve found them”: Community engagement in a tilapia incursion into a creek in the Gulf of Carpentaria, QLD Michelle Jefferies, Australia – Carp Cleanup – the Lower Lachlan experience Kirsten Phillips, Australia - Developing noxious fish education materials for the community</p>
	C2D	M1	<p>FEATURE: KNOWLEDGE HUB FOR HEALTHY RIVERS AND AQUATIC ECOSYSTEMS (ASIA-PACIFIC WATER FORUM, ASIAN DEVELOPMENT BANK & INTERNATIONAL WATERCENTRE) Chair – Mark Pascoe Mark Pascoe, Australia – Developing a regional Knowledge Hub for healthy rivers and aquatic ecosystems Eva Abal, Australia – The Healthy Waterways Report Card: a possible Knowledge Hub project Interactive workshop discussion – ‘What do we want from a regional knowledge hub for healthy rivers and aquatic ecosystems’ and ‘How will we be involved’</p>
	C2E	GH1 Entry via Door 6	<p>CLIMATE CHANGE AND RIVERS – DEALING WITH DROUGHTS, FLOODS AND UNCERTAINTIES Chair – Michael Wilson Mark Summerton, South Africa - The impact of a changing climate on water resources Marjolein Mens, Netherlands - How Dutch decision makers deal with uncertainties in flood risk management David Rheinheimer, USA – Reoperation of hydropower systems for environmental flows under a changing climate: an example from the Sierra Nevada, California John Platten, Australia - The impact of climate change on Barramundi recruitment in Central Queensland</p>
12:00	Lunch – Poster Session		
13:30	C3A	GH2 Entry via Door 3	<p>URBAN RIVERS Chair – Alan Hoban Kathi Holt-Damant, Australia - River city: developing a creative city strategy Hannah Pexton, Australia - Setting long-term achievable visions for urban rivers in Melbourne Sarah Walker, Australia - Water sensitive cities: a search and a vision Shadananan Nair, India - Urban water issues in India in a changing environment Paul Wilson, Australia - Improving river health monitoring and forecasting at the site-scale in urban areas Keith Davies, Australia - Western corridor recycled water project - helping to close the loop in river catchment management</p>
	C3B	M2	<p>CHALLENGES TO ESTUARINE HEALTH Chair – Bill Dennison Andrew Moss, Australia - A framework for holistic assessment of estuaries Norm Duke, Australia - Mangroves as indicators of estuarine and catchment condition: the results of aerial surveys from six NRM regions in eastern Queensland</p>

		<p>Jackie Wright, Australia - The Blackwood River mouth WA - a river mouth on the move</p> <p>Michele Burford, Australia - Linking catchments to the coast – can the development of northern Australia negatively impact on the health and productivity of estuaries?</p> <p>Sayed Khan, Australia - Assimilative capacity assessment of Gold Coast broadwater estuary in search of a smart recycled water release system</p> <p>Trevor Cameron, Australia - Assessing the impact of wakeboarding on the Williams River estuary, NSW</p>
C3C	GH1 <i>Entry via Door 6</i>	<p>ENVIRONMENTAL FLOWS FOR RIVERS AND ESTUARIES</p> <p>Chair – Richard Davis</p> <p>Nick Schofield, Australia - Emerging practice in active environmental water management</p> <p>Ian Prosser, Australia - Measuring over allocation of water resources</p> <p>Mark Williams, USA - Restoring ecosystem habitat in the Arid Southwestern United States: lessons learned</p> <p>Adam Butcher, Australia - The influence of flow on native fish movement in the Murray-Darling Basin</p> <p>Jayden Woolley, Australia - Environmental flows in the Moorabool River - key challenges and outcomes</p> <p>Maria Leichtfried, Austria – IRESA-initiative of river ecology in Sri Lanka: from science to application</p>
C3D	M1	<p>FEATURE: KNOWLEDGE HUB - IMPLEMENTATION PROCESS FOR SOUTH EAST QUEENSLAND HEALTHY WATERWAYS STRATEGY (SEQ HEALTHY WATERWAYS PARTNERSHIP)</p> <p>Chair – Eva Abal</p> <p>Eva Abal, Australia – The SEQ Healthy Waterways Partnership: implementing an adaptive management framework for action</p> <p>Mark Pascoe, Australia – Point source pollution: linking water quality to water quantity</p> <p>Jon Olley, Australia – Healthy Country: managing the land for healthy waterways</p> <p>Dan Spiller, Australia – Water Sensitive Urban Design: combining water savings with ecosystem protection</p> <p>Stuart Bunn, Australia – Ecosystem Health Monitoring Program: tracking our investments</p> <p>Jane Hunter, Australia – Health-e-waterways: supporting decision making through access to knowledge, information and decision support tools</p> <p>Di Tarte, Australia – Communication, education and engagement: raising awareness for waterways protection and contributing to policy development</p> <p>Paul Greenfield, Australia – The Partnership: an integrated approach to total water cycle management</p>
C3E	M9	<p>AGRICULTURE AND WATER</p> <p>Chair – Jeff Camkin</p> <p>Keith Bristow, Australia - Irrigation – A need for new thinking</p> <p>Udaya Nagothu, Norway - Climate change and agriculture: impacts, vulnerability and adaptation in India</p> <p>Murli Dhar, India - Sustainable cotton initiative: from farm to yarn, better cotton way</p> <p>Rajendra Kumar Isaac, India - Raising water productivity and quality- a key to effective water management</p> <p>Mohamed Aheeyar, Sri Lanka - Conflicts management of basin level water allocation: economic vs social values</p> <p>Rob Milla, Australia - Demonstration farms - a sustainable and profitable future</p>
15:30	Afternoon Tea	

16:00	C4A	M2	WATER QUALITY – MAINTENANCE AND MONITORING Monika Muschal, Australia - Evaluation of historical water quality data and trends, New South Wales, Australia. Megan Star, Australia - Sediment, stakeholders, dollars and solutions: developing solutions to sediment run-off in the Fitzroy Basin Carl Mitchell, Australia - Mackay Whitsunday water quality improvement plan
	C4B	GH1 <i>Entry via Door 6</i>	CLIMATE CHANGE AND RIVERS – DEALING WITH DROUGHTS, FLOODS AND UNCERTAINTIES Chair – Jamie Pittock Nathan Penny, Australia - Raising the profile on stream bed lowering Tim Capon, Australia - Resilience and the value of Australian floodplains Louise Searle, Australia - Emergency river red gum watering program in the Mallee
	C4C	GH2 <i>Entry via Door 3</i>	FEATURE: FUTURE SCENARIOS – RIVERS 2050
	C4D	M1	FEATURE: RIVERPRIZE FINALISTS’ SESSION Chair – Paul Greenfield
	C4E	M9	FEATURE: MEDIA TRAINING (THE UNIVERSITY OF QUEENSLAND – SCHOOL OF JOURNALISM AND COMMUNICATION) <i>Please note - this session finishes at 18:00 and numbers are capped, so bookings at the Registration Desk are essential.</i>
17:30	Close		

THURSDAY 24 September 2009			
TIME	SESSION	ROOM	
08:30	D1A	GH2 <i>Entry via Door 3</i>	FEATURE: PROVIDING SAFE AND SECURE DRINKING WATER: SOLUTIONS FOR THE FUTURE (SEQWATER) Chair – James Udy Barry Hart, Australia Shane Snyder, USA James Udy, Australia Michele Burford, Australia Badin Gibbes, Australia
	D1B	GH1 <i>Entry via Door 6</i>	ENVIRONMENTAL FLOWS FOR RIVERS AND ESTUARIES Chair – Angela Arthington Darren White, Australia - Adaptive management of environmental flows: real time continuous monitoring and investigations Ian Overton, Australia - Identifying ecological outcomes of flow regimes in the Murray-Darling Basin Krey Price, USA - Reconnecting the Missouri River to its historical floodplain Md Reaz Akter Mullick, Thailand - Instream water use - how much value does it carry? Craig MacKay, Australia - Tributary inflow augmentation strategies in the Murrumbidgee River
10:30	Morning Tea		

11:00	D2	GH1 Entry via Door 6	<p>CLOSING PLENARY Chair – Paul Greenfield Riversymposium Poster Plate Presentation THE GREAT RIVER DEBATE - You can only manage water in the face of climate change with more infrastructure Facilitator – Gary Jones, CEO, eWater CRC Positive Greg Hunt – Federal shadow Minister for Climate Change Henk Sterk – EU Twinning Project Mike Muller – Keynote speaker, formerly DG of South African Dept of Water Affairs and Forestry Negative Charles Vörösmarty - Keynote speaker, City University of New York and Global Water System Project Torkil Jønch Clausen - Water Policy Adviser, DHI Group & Senior Adviser, Global Water Partnership Jamie Pittock - Australian National University, formerly WWF International</p>
12:30	RIVERSYMPOSIUM CLOSED		