

*9th International
Riversymposium 2006*
4-7 September Brisbane Australia

MEDIA KIT

Keytext Communication

Science and Environmental Communication 39 Ludlow St, Chapel Hill
Queensland, Australia 4069

Don Alcock

Email: don@keytext.com.au

Mob: 0418 882 063

www.keytext.com.au

Econnect Communication

14 Horan Street

West End, Brisbane, Queensland Australia 4101

www.econnect.com.au

Dr Michelle Riedlinger, Senior Consultant

Email: michelle@econnect.com.au

Mob: 0400 577 843

Sarah Bartlett, Communication Officer

Email: sarah@econnect.com.au

Mob: 0404 504 258

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Abstracts

Early submissions of abstracts are available from sarah@econnect.com.au and hard copy books will be available from the media room during the symposium.

Media assistance

Please do not hesitate to ask for media assistance.

Science communication volunteers and Keytext Communication and Econnect Communication staff will be available to assist in attending and reporting on sessions, contacting talent, research and copy writing etc.

The media room will be attended from 08:00 to 18:00 each day and is located in room M5/M6.

Media conferences

Daily media conferences will be held in room M7/M8 at the times indicated on the media briefing alerts.

Speaker contact

Every attempt will be made by media room assistants to make contact with speakers at the symposium outside session times at your request.

Media briefing alerts

Water planning for Australia's changing climate

Monday 4 Sept, 10.30-11.00am

Changing rainfall and rampant urban growth mean that parts of our country and now almost out of water. We are running on empty, the warning light is on, but there is no service station in sight.

The last 10 years have been much drier in Eastern Australia than the previous 50 years. We need smarter water planning to help us share the available water between urban, agricultural users and the environment. This *Riversymposium* media conference will discuss options to better conserve, manage, supply and distribute water. Three water experts will discuss:

How do we engage the community so they understand the choices in front of them and get beyond the current simplistic view that they can pinch someone else's water?

How do we build in pricing that reflects the costs of supplying and treating water, and encourages development in places where water is available, rather than in places that are almost empty?

How does the National Water Initiative protect and manage water systems in tropical river and groundwater systems, which hold 70% of Australia's freshwater?

With several large dams currently under construction or in final planning – mainly in Queensland – what role should the NWI have in assessing large water resource infrastructure proposals?

Three Australian water experts will discuss water planning and policies at a media briefing during International Riversymposium, followed by a special workshop.

Professor Peter Cullen is a member of the Wentworth Group of Concerned Scientists responsible for development of the *Blueprint for a Living Continent*. He is a Commissioner of the National Water Commission, a Director of Land and Water Australia, Chair of the Victorian Water Trust Advisory Council and Chair of the Independent Panel Reviewing Sydney's Metropolitan Water Plan. He was appointed an Officer of the Order of Australia in 2004 for service to freshwater ecology.

Professor Paul Greenfield is Senior Deputy Vice Chancellor of the University of Queensland and chairs the Moreton Bay and Brisbane River Wastewater Management Study's scientific advisory committee. He was appointed an Officer in the General Division of the Order of Australia in 2006 for services to science and engineering, particularly through research in the areas of chemical engineering, biotechnology, wastewater and environmental management, and to the tertiary education sector.

Dr Stuart Blanch is Freshwater Manager with WWF-Australia and Convenor of the Australian Tropical Rivers Group. Stuart has worked in water resources policy and river management as a scientist, conservation advocate and NSW government officer. Stuart will outline a proposal to integrate and coordinate policies and programs across governments, catchments groups and industries.

Venue: Media Conference Room M7 (Mezzanine Level) Brisbane Convention and Exhibition Centre, Grey Street, South Bank

Contacts: Peter Cullen 0418 278 811, email: peter.cullen@canberra.edu.au
Paul Greenfield 0418 733 866, email: p.greenfield@research.uq.edu.au
Stuart Blanch 0427 957 868, email: sblanch@wwf.org.au

Media assistance: Don Alcock, mob 0418 882 063 or Sarah Bartlett, 0404 504 258

Climate change heralds extreme cyclones and drought

Tuesday 5 Sept, 10.00-10.30 am

If some of the world's top climate scientists are right, we have just ten years to avert a major catastrophe that could send the planet into a tail-spin of destruction involving extreme weather, floods, droughts, epidemics and killer heat waves beyond anything we have ever experienced.

- The total areas affected by serious droughts worldwide doubled in the last 30 years.
- 2005 was the hottest year on record. Nineteen of the hottest 20 years on record have occurred since 1980. What are the predictions for the future?
- In Australia, drought is tightening its grip over much of the country. The Murray Darling Basin is experiencing its driest five-year period on record. Brisbane is experience its worst drought ever.
- Worldwide, annual weather-related deaths are at least 150,000. This figure could increase markedly with the influence of climate change.

Three climate change experts will discuss the impact of global warming at a media briefing during International Riversymposium, followed by a special 1.5 hour workshop.

- Dr Bryson Bates** Bryson is Director of CSIRO's Climate Program and a Senior Principal Research Scientist with CSIRO Land and Water. Bryson will outline new ways to detect and model climate change in Australia, and how we need an adaptive management approach to better deal with increased risk.
- Fred Pearce** Fred is author of two books published in Australia this year: 'When the Rivers Run Dry: What happens when our water runs out' and 'The Last Generation: How nature will take her revenge for climate change'. He has reported on environment, science and development issues for publications including New Scientist, the Boston Globe and The Independent (UK) for over 15 years.
- Dr Holger Hoff** Holger is an environmental scientist at the Stockholm Environment Institute, and project coordinator for the GLOWA project on climate and transboundary water in the Middle East. He will discuss emerging international climate patterns, and how water managers must change their long-term planning.
- Venue:** Riversymposium Media Conference Room, Room M6 (Mezzanine Level), Brisbane Convention and Exhibition Centre, Grey St, South Bank
- Contacts:**
- Bryson Bates mobile: 0418 977 028, email: bryson.bates@csiro.au
- Fred Pearce email: PEARCEFRED@compuserve.com
- Holger Hoff email: hhoff@rz.uni-potsdam.de
- Media assistance:** Don Alcock, mobile 0418 882 063 or Sarah Bartlett 0404 504 258

SkyJuice – Australia’s answer to the global issue of safe, pure water

Tuesday 5 Sept, 10.45am

Imagine a little machine from that turns contaminated water into clean drinking water, instantly!

No need to imagine it, the SkyJuice Foundation has created the SkyHydrant which does exactly that and they want to show you how it works on the edge of the Brisbane River tomorrow.

Water will be taken directly from the river, put through the system and in a matter of seconds a clean glass of water will be drunk by SkyJuice Foundation’s founder and chairman, Rhett Butler.

‘Skyhydrant treats up to 20,000 litres a day to above and beyond World Health Organisation health standards without chemicals, power or moving parts and for less than 50c a year,’ explains Rhett’.

‘More importantly the unit has a life of ten years and is essentially the answer to providing access to safe, affordable and pure water to 1.2 billions people who currently just don’t have it.’

As part of the International Riversymposium being held in Brisbane this week, SkyJuice Foundation, an Australian non-profit venture will demonstrate the portable system that brings clean water to isolated communities or disaster victims – they are families, much like our own.

So inspired by the potential of SkyHydrant were staff members from Tweed Shire Council (NSW) they have voluntarily organised deductions from their own pay packets to be put into a fund that will help the installation of a SkyHydrant system in a small isolated town outside of Nairobi, Kenya. The group hopes to be able to contribute enough so that they might install a system in the area each and every year.

The Tweed Shire Council through their Tweed-Kenya Mentoring Project is partnering or ‘twinning’ with a catchment that takes in a reach of the Nairobi River in Kenya where the only water available to communities is polluted with raw human waste and abattoir effluent. The Project is using Tweed’s substantial professional and community resources to support a water and sanitisation project in the slums of Nairobi.

The project is supported by the International Riverfoundation’s (IRF) Twinning Program. The IRF are the instigators of many similar partnerships around the world where river and human health are closely linked. The non-profit organisation works through its strong global relationships with government, industry, communities and water scientists to be the premier global catalyst and advocate for the protection of the world’s rivers and waterways.

The Tweed-Kenya Mentoring Project and SkyJuice Foundation always welcome financial support for their generous work in providing clean drinking water to people in dire need.

They also encourage similar organisations to use International Riversymposium to form direct links with other communities where there is an obvious need for assistance in enabling communities to improve their living conditions.

Location: Brisbane River edge on the Promenade at South Bank, adjacent to the Cultural Forecourt, South Bank Parklands.

Date: Tuesday 5 September 10:45am – media will be directed from parking bays in the Cultural Forecourt, South Bank.

Contacts:

Rhett Butler, SkyJuice Foundation www.skyjuice.com.au 0438 880 621

Tom Alletson, Tweed Shire Council www.tweed.nsw.gov.au/kenya 0406 380 893

Olita Ogonjo: Desk Coordinator, Kenya Mentoring Program Desk, Nairobi (will be present)

Media assistance: Don Alcock, 0418 882 063 or Sarah Bartlett, 0404 504 258

How you can fight climate change and water scarcity

Wednesday 6 Sept, 10.00am

A media conference at the International Riversymposium tomorrow will look how influential the average person can be in the face of climate change and water scarcity.

As water becomes a strong political issue here in Queensland we are increasingly made aware of the potential changes to our cost of living, lifestyle choices and the health of our environment.

The "World Water Development Report" released during World Water Week late last month, came to the conclusion that the major cause of water problems are from water mismanagement and in the short to medium term, human factors will be more important in shaping our future than climate change itself.

Dr Caroline Sullivan, Head of Water Policy and Management at the Centre for Ecology and Hydrology in the UK explains:

'We are each part of the great market forces that drive water use. Each of us can have a huge impact on the demand for water by making slight changes in the way we live. For example eat less products that use huge amounts of water in production, use public transport when you can, save energy and choose energy sources such as solar where you can.'

'You may have heard these things before but perhaps never considered how important and influential these changes could be on saving water.'

Roberto Epple and Wayne Cameron will explain that just as our individual choices can have far ranging impacts, so too can our actions in our environment.

'Australia's municipal water use is exorbitant, compared to the developing countries and even Europe, says Wayne Cameron. 'We need to address our excesses and accept that this is an ethical responsibility for our generation.'

Roberto Epple, founder and Director of the European Rivers Network is the initiator of The Big Jump. This is an event which sees a quarter of a million Europeans jump into their city rivers to call for improved awareness of water quality issues and restoration projects.

Wayne Cameron is the quintessential Brisbane volunteer, donating his time to environmental and social causes for 30 years now. Wayne is the founding president and current manager of Australia's Bulimba Creek Catchment Coordinating Committee (B4C), winners of the 2005 Thies National Riverprize.

Venue: Media Conference Room M7 (Mezzanine Level) Brisbane Convention and Exhibition Centre, Grey Street, South Bank

Contacts:

Dr Caroline Sullivan mobile: +44 1491 838800 email: csu@ceh.ac.uk

Roberto Epple mobile: +33 6 08 62 12 67 email: roberto.epple@rivernet.org

Wayne Cameron mobile: 0413 476 736 email: b4c@bulimbacreek.org.au

Media assistance: Don Alcock 0418 882 063 email: don@keytext.com.au or

Sarah Bartlett 0404 504 258 email: sarah@econnect.com.au

Media releases

Young scientists compete for national water award

New technology that detects antibiotic chemicals in rivers, removes bacteria from water supplies, maps groundwater levels on farms, and models nitrogen levels in rivers are among several exciting projects being presented this week (4–7 September) in Brisbane.

Six young Australian water scientists are finalists in the 2006 Water Forum CRCs 'Young Water Scientist Award'. They will present their research to an international audience of river managers, scientists and policy makers at this year's International Riversymposium.

The \$2500 award recognises outstanding projects that will be applied to conserve and protect Australia's water resources. It highlights the role that water-focused CRCs (Cooperative Research Centres) play in training young scientists to be future leaders in water technology and management in Australia. The six young finalists for this year's award are:

Healthy waterways, healthy communities: Melanie Cox of the (former) Coastal CRC will show how social and economic well-being is directly linked to the health of local rivers, beaches, bays and estuaries. Melanie developed a model based on surveys from Queensland coastal regions showing 'social capital' and industry are strengthened by improved waterway condition. Melanie's findings challenge the assumption that positive outcomes for the environment have an economic or social cost. Her results have important implications for urban planners and developers, especially as more Australians are moving to coastal regions.

Screening waterways for antibiotics: Drugs that fight infections are passing through waste water treatment systems and entering local waterways, posing a threat to human health and the environment. **Andrew Watkinson** of the CRC for Water Quality and Treatment has found while treatment systems remove most antibiotics, many escape into receiving waters. Many antibiotics pass through humans relatively unchanged and enter the water cycle. Small concentrations of these water soluble drugs often end up in water used for drinking, irrigation and recreation. Information from this study will be used to develop new guidelines for water treatment and waste discharge.

Keeping biofilm bacteria at bay: Biofilm, or surface bacteria that fouls and corrodes material immersed in water, is a serious problem which can release pathogens into our water supplies. New research by the Environmental Biotechnology CRC shows that reactive oxygen (ROI) and nitrogen (RNI) can remove biofilms and kill pathogens. **Nicolas Barraud** of the University of New South Wales has found that releasing low concentrations of nitric oxide into water is a harmless, relatively cheap and safe solution to control biofilm.

Technology maps denitrification in rivers: Increasing levels of dissolved inorganic nitrogen is bad for our streams and rivers. **Leo Lymburner** of the (former) Catchment Hydrology CRC, and Melbourne University, has developed a model that combines remote sensing data, terrain analysis and stream gauging station data to predict where catchment denitrification is likely to occur. The model is a valuable tool for catchment managers because it enables them to identify priority areas for protection and restoration.

Preventing wet roots: Sam Buchanan of the Cotton Catchment Communities CRC has developed new technology that accurately predicts groundwater depth at a very high resolution. Knowledge about the depth of groundwater is important to sustain a healthy ecosystem and maintain high agricultural yields by keeping groundwater out of the crop root-zone, particularly in landscapes susceptible to

salinity. The high resolution maps will help farmers to provide enough water to sustain their crop while minimising the chances of bringing the salts into the root zone.

Plant model helps managers: Aquatic plants called macrophytes are an important source of organic matter for rivers. **Patricia Bowen** of the (former) CRC for Freshwater Ecology, and the University of Canberra, based at the Murray-Darling Freshwater Research Centre in Wodonga has developed a predictive computer model to show how river flows affect macrophytes and microbial functioning. Leaf litter, water flows, river shape, plant density and other factors can be integrated into the model. The model provides a tool for river managers to predict the outcome of proposed flow manipulations on macrophyte inputs to rivers and can be easily adapted to any site.

The six young water scientists will present their research findings during the first two days of the International Riversymposium at Brisbane Convention and Exhibition Centre.

The winning CRC student will outline their project on Wednesday 6 September at 4.30 pm in the main hall and receive their award of \$2,500.

Melanie Cox	ph: 0412 673 561	email: melanie.cox@nrm.qld.gov.au
Andrew Watkinson	ph: 0423 777 176	email: a.watkinson@ug.edu.au
Nicolas Barraud	ph: 0425 274037	email: nicolas.barraud@student.unsw.edu
Leo Lymburner	ph: 0401 915 414	email: leo.lymburner@jcu.edu.au
Sam Buchanan	ph: 0404 487 207	email: samboha66@gmail.com
Patricia Bowen	ph: (02) 6058 2300	email: Trish.Bowen@csiro.au

Media assistance: Don Alcock, 0418 882 063, email: don@keytext.com.au

Visit: www.riversymposium.com

Restored rivers listed for national Riverprize

Four large Australian river restoration projects have been short listed for the 2006 National Thiess Riverprize award for excellence in river and waterway management.

The rivers are Margaret River, WA (Cape to Cape Catchments Group), Dee River, Qld (Wowan Dululu Landcare Group), Lake Macquarie, NSW (Office of the Lake Macquarie Catchment Coordinator), and Torbay Catchment, WA (Torbay Catchment Group and WA Department of Environment).

The prestigious \$75,000 Riverprize and trophy is awarded each year to an outstanding Australian river or catchment restoration project.

All finalists have been recognised for their outstanding efforts in restoring, protecting and managing river systems and catchments.

The National and International Thiess Riverprize will be presented on 5 September 2006 at International Riversymposium, a forum focussing on world's best practice river and catchment management, in Brisbane.

The International Riversymposium is a wake up call to better preserve and manage water resources. This year's theme of '*Managing rivers with climate change and expanding populations*' will address the challenge of meeting human needs for water under changing climatic conditions.

The International Riversymposium is an integral part of Brisbane's annual broad-based cultural event, the Riverfestival. Now in its ninth year, the global forum attracts water experts from around the world and Brisbane will be buzzing with new ideas, policies, agreements, debates and technology to address some of the world's most pressing water related issues.

The 9th International Riversymposium will be held at Brisbane's Convention Centre from 4-7 September. For further information and registration details visit: www.riversymposium.com

Contacts

- Lake Macquarie Catchment Group, Jeff Jansson, ph 0418 210 873 email: jjansson@lakemac.nsw.gov.au
- Wowan Dululu Landcare Group, James Yeldham, ph 07 49371262 email: citrusfarm@bigpond.com or Robyn Mapp, ph 07 4992 3894 email: rivaness@dodo.com.au
- Cape to Cape Catchments Group, Genevieve Hanran-Smith, ph 08 9757 2202 email: rivercare@capetocape.org.au
- Torbay Catchment Group, Karen McKeough ph 08 9841 0128 email: karen.mckeough@environment.wa.gov.au

Media enquires: Don Alcock email: don@keytext.com.au phone: 0418 882 063

Editors note: Regular Riversymposium news updates will be posted at: www.riversymposium.com/index.php?page=SymposiumMedia

2006 National THIESS Riverprize finalists

MARGARET RIVER CATCHMENT - Cape to Cape Catchments Group, WA

The Cape to Cape Catchments Group was formed in November 2000. It works with the community and management agencies to ensure that natural systems, people and their activities coexist in a healthy, productive and sustainable way. It is a community organisation that works in partnership with all land managers (public and private) to undertake on-ground environmental work and other natural resource management activities. The group works in catchments between Cape Naturaliste and Cape Leeuwin, extending inland to include the Margaret River catchment, in the south west of Western Australia.

<http://www.swcatchmentscouncil.com/cape.htm>

http://www.wrc.wa.gov.au/ribbons/geographe_region.html

DEE RIVER CATCHMENT - Wowan Dululu Landcare Group, QLD

The Dee River is in the upper reaches of central Queensland's vast Fitzroy River catchment. For years, the Dee River was contaminated by acid mine drainage. The Wowan Dululu Landcare Group, concerned about acid seepage into the river downstream from the historic Mount Morgan mine, has driven a suit of environmental repair including a dam remediation project, a lime-dosing water treatment plant, and a holistic approach to river management. After flowing through the historic Mount Morgan gold mining area, Dee River flows west into the Dawson River, which eventually feeds into the Fitzroy River near Rockhampton.

<http://www.catchment.com/cis/Dee/nht.html>

LAKE MACQUARIE CATCHMENT - Lake Macquarie Catchment Coordinator, NSW

Lake Macquarie is part of a large estuary system on the central coast of New South Wales. The Lake Macquarie Improvement Project began as a joint initiative of Lake Macquarie City Council, Wyong Shire Council and the New South Wales State Government. Developed by the NSW Premier's Task Force in 1998 to improve the health of Lake Macquarie, overall management is the responsibility of the Lake Macquarie Project Management Committee and implementation is carried out through the Office of the Lake Macquarie and Catchment Co-ordinator. The project has developed a successful integrated catchment and estuary management program with a strong emphasis on community involvement.

<http://www.livinglakemacquarie.org>

TORBAY CATCHMENT – Torbay Catchment Group and Department of Water, WA

The Torbay Catchment is a valuable fishing, farming, tourism and conservation resource for the people of the south coast of Western Australia. The catchment is located 26 kilometres west of Albany on the south coast of Western Australia. The Torbay Catchment Group's vision for its catchment is 'an environmentally clean, balanced ecology supporting a prosperous community in which people respect each other's use of the catchment and waterways'. The Department of Water is the lead government agency in Western Australia to manage and protect the state's environment and water resources. Both organisations coordinate "Watershed Torbay" to restore catchment and waterway health.

<http://www.torbay.scric.org/index.html>

River restoration projects compete for global *Riverprize*

Four large river restoration projects – Kissimmee River (USA), Lake Macquarie (Australia), South Saskatchewan River (Canada) and Sha River (China) – are finalists for the 2006 International Thies *Riverprize* award for excellence in river and waterway management.

The prestigious International Thies *Riverprize* is a global award presented annually for outstanding achievements in river repair and management. Projects usually demonstrate a combination of successful restoration, education, management and scientific initiatives.

The prize of AUD 225,000 and the International Thies *Riverprize* trophy are funded by the International Riverfoundation, which was established to advocate protecting and restoring the world's rivers and waterways for future generations. Winners are honoured at a special award ceremony during the International *Riversymposium* in Brisbane.

The International *Riversymposium* is an annual forum that brings together river and catchment experts to share knowledge about how good science, community action and management can conserve world river systems and water supplies.

The symposium is an integral part of Brisbane's annual environmental and artistic celebration—the *Riverfestival*.

Past international prize winners include river management organisations in England, Canada, United States, Israel, South-East Asia, Australia and France.

The 2006 winner will be announced at a gala award ceremony on 5 September attended by delegates from over 30 countries. The finalists are:

- **Kissimmee River, USA**
- **Lake Macquarie, Australia**
- **South Saskatchewan River, Canada**
- **Sha River, China**

For information, contact:

Kissimmee River - Joseph Koebel, phone: +1 561 682 6925, email: jkoebel@sfwmd.gov

Lake Macquarie - Jeff Jansson, phone: +61 2 4921 0230, email: jjansson@lakemac.nsw.gov.au

South Saskatchewan River - Susan Lamb, phone: +1 306 665 6887, email: meewasin@meewasin.com

Sha River - Ms Beibei Si, phone: +86 28 8663 6501, email: rosesbb1979@hotmail.com

Visit: www.riversymposium.com www.riverfestival.com
www.internationalriverfoundation.com.au

Media assistance: Don Alcock +61 418 882 063, email: don@keytext.com.au

2006 International THIESS Riverprize finalists

Kissimmee River, USA

The Kissimmee River and floodplain form the headwaters of the greater Kissimmee-Okeechobee-Everglades. The Kissimmee River Restoration Project involves a series of partnerships between several U.S. federal and local organizations, and stakeholder groups. The South Florida Water Management District manages water resources in the region by balancing and improving water quality, flood control, natural systems and water supply. The project is restoring more than 60 sq km of river and floodplain ecosystems including 70 km of meandering river channel and 11,000 hectares of wetlands. The government-community partnership has filled in drainage canals, removed dams and navigation lock structures, and reconnected historic river channels.

<http://www.sfwmd.gov/site/index.php?id=15>

Lake Macquarie, Australia

Lake Macquarie is part of a large estuary system in northern New South Wales, Australia. The Lake Macquarie Improvement Project began as a joint initiative of Lake Macquarie City Council, Wyong Shire Council and the New South Wales government. Developed by the NSW Premier's Task Force in 1998 to improve the health of Lake Macquarie, the waterway restoration project is managed by the Office of the Lake Macquarie and Catchment Co-ordinator. The project has developed a successful integrated catchment and estuary management program with a strong emphasis on community involvement.

<http://www.livinglakemacquarie.org>

South Saskatchewan River, Canada

The South Saskatchewan River near Saskatoon, Canada, runs for over 60 km and is managed by the Meewasin Valley Authority. Since 1979, Meewasin has directed many conservation projects which have enhanced the river valley, beginning with a major clean-up of the river valley. This was followed by the development of the Meewasin Valley Trail which extends for 40 km along the east and west banks of the river. Former rubble sites have been transformed into parks, damaged areas restored, conservation areas protected, and interpretive centres built.

<http://www.meewasin.com/>

Sha River, China

The Sha River is part of the Minjiang Tributary system in China, a primary catchment for the western reaches of the Yangtze River which eventually discharges into the East China Sea. Years of rapid population growth and industrial development saw the river suffer from the combined impacts of city waste, raw sewage, deforestation, coal silt and rural garbage. By 1999, scientists rated the river as virtually 'dead' and a severe public health hazard. The Sha River Restoration Project has improved water quality, controlled flooding, cleaned up pollution, landscaped parks, constructed drainage systems, and enhanced public use and understanding of the catchment. Partners in the project include the Chengdu Artery Construction Authority, Jinniu District, Chenghua District and Jinjiang District of Chengdu City.

<http://www.chengdu.gov.cn/echengdu/index.jsp>

Sha River a finalist in global Riverprize

The Sha River Restoration Project from Chengdu, China, is one of four finalists for the 2006 International Thiess *Riverprize* awarded for excellence in river management.

The International Thiess *Riverprize* of AUD \$225,000 will be awarded at the annual International *Riversymposium* in Brisbane, Australia. The *Riversymposium* highlights how science, policy and community action contribute to best practice river management. Delegates from over 45 countries will attend to discuss river and watershed management issues.

The Sha River is a part of the Minjiang Tributary system, a primary catchment for the western reaches of the Yangtze River which eventually discharges into the East China Sea. The river plays a major role in the flood management control for Chengdu City and provides 90 percent of the city's industrial and human consumption water needs.

However, years of rapid population growth and industrial development saw the river suffer from the combined impacts of city waste, raw sewage, deforestation, coal silt and rural garbage. By 1999, scientists rated the river as virtually 'dead' and a severe public health hazard, seriously affecting everyday life for people in Chengdu and for communities downstream.

The Sha River Restoration Project is a US \$411 million integrated project that has improved water quality, controlled flood flows, cleaned up pollution, landscaped parks and drainage systems, and enhanced public use and understanding of the catchment.

"It has been a huge clean up project on a scale much larger than many other rivers and the reduction of pollution to the Sha River is a substantial achievement," said Professor Paul Greenfield, chair of the Thiess *Riverprize* judging panel. "We encourage the Sha River Project to continue in the direction they are heading in terms of pollution abatement, sustainable water supplies, shoreline reforestation and redevelopment, amenity values, and linking the river culturally to urban populations."

The Sha River entry will vie for the prestigious International Thiess *Riverprize* against the Kissimmee River (USA), the Meesawin River (Canada) and Lake Macquarie (Australia). The winner will be announced at a gala award ceremony, attended by delegates from over 30 countries, in Brisbane, Australia, on 5 September 2006.

For information, contact: Ms Beibei Si, phone: +86 28 8663 1596, mobile +86 28 8950 3331, email: rosesbb1979@hotmail.com

Visit: www.cdfao.chengdu.gov.cn

Media assistance: Don Alcock, mobile 61 7 (0)418 882 063 don@keytext.com.au

The International *Riversymposium* is held from 4-7 September 2006 during Brisbane's annual *Riverfestival*. www.riversymposium.com

Sha River Restoration Project: the facts

Sha River is a major component of the Minjiang River tributary, a primary water catchment system for the western reaches of the Yangtze River which eventually discharges into the East China Sea at Shanghai, 1,770 kilometers to the east.

Sha River is 22 kms long and begins in the mountains of Chengdu. It is known locally as the 'River of Life' and runs through Chengdu, a major city with a population of 10,597,000.

Rapid expansion of industry and population in the Chengdu region resulted in waste loads far beyond the river's natural ability to cope – and its capacity to treat sewage. In 1999, over 60 million tonnes of raw sewage and industrial waste; 38,500 tonnes of municipal and rural waste; 10,000 tonnes of coal powder; and 300,000 cubic metres of sediment entered the river.

By 1999, the river was virtually dead and had become a severe health hazard, predisposing the surrounding community to disease and illness.

A large-scale restoration project was established in 2001 with government organizations and investment agencies which including Chengdu Bureau of Layout, Chengdu Construction Committee, Chengdu Environment Protection Bureau, Chengdu Land Resources Bureau, Chengdu City Planning & Design Institute, Chengdu Survey Institute, Harvard University (USA), Turf Design (Australia), KEC (Japan), Sendes Design Institute (Singapore), Shanghai Garden Construction and Design Institute, Sichuan Construction and Design Institute, and Qinghua Tongfang, and the Bank of China.

Restoration work included reshaping sections of the river; control of potential floods; relocating buildings; construction of new roads, bridges and access areas; reforestation and bank erosion control; building new wastewater treatment systems; large-scale clean-up of waste and silt accumulation; and establishing artificial lakes and wetlands.

The project relocated many old buildings, large commercial enterprises and small businesses, involving 30,000 households and more than 100,000 residents. The cooperation and good will of the community, fostered through extensive communication of the importance of the project, made the river restoration project possible.

A large scale public education campaign was undertaken to prevent future misuse of the river. People were re-accommodated to new apartments and commercial enterprises have taken the opportunity to restructure and relocation to surrounding towns.

There has been a significant improvement in river water quality. There is a marked improvement in dissolved oxygen levels in the river, a significant reduction in contaminants such as benzene, and much lower levels of heavy metals such as cadmium and chromium. Extensive underground sewer systems have been constructed along riparian areas to direct effluent to new wastewater treatment plants.

More people visit the river and parklands. Nine step-water gates were constructed along the river banks to raise the permanent river water level and enhance the natural bends of the river.

Theme-parks, recreational squares and cultural and artistic works have been constructed along the river banks. Three lakes, streams and wetlands have also been constructed together with boardwalks and education centres.

Kissimmee River listed for \$225,000 global Riverprize

The Kissimmee River Restoration Project in Florida has drawn accolades as one of four finalists in the 2006 International Thiess *Riverprize* for excellence in river restoration and management.

The AUD \$225,000 International *Riverprize* will be awarded at the annual International *Riversymposium* in Brisbane, Australia, on 5 September 2006. The symposium attracts hundreds of delegates from more than 30 countries to discuss how science, policy and community action can improve the health of the world's rivers and watersheds.

Past winners of the International *Riverprize* include the Drome River (France, 2005) Siuslaw River (2004); Alexander River (Israel, 2003); Mekong River (Cambodia, Vietnam, Thailand and Lao Peoples' Democratic Republic, 2002); Blackwood River (Australia, 2001); and Grand River (Canada, 2000).

In the 1960s, a large channel was constructed through the center of the floodplain to control flooding and the 167 kilometre-long Kissimmee River was converted into a series of stagnant reservoirs. Channelization led to dramatic declines in wintering waterfowl, wading birds, and game fish populations, as well as loss of ecosystem functions.

The goal of the restoration project is to restore ecological integrity to the river-floodplain ecosystem. It involves a series of partnerships between the South Florida Water Management District, several Federal and local organizations, and stakeholder groups, and entails acquiring 37,000 hectares of historic floodplain, filling in 35 kilometres of drainage canal, removing dams and navigation lock structures, and reconnecting 74 kilometres of historic river channel. Initial results following Phase I construction indicate dramatic positive changes in biological, chemical, and physical attributes of the system.

"This is the largest and most comprehensive river-floodplain restoration project in the world," says Joeseoph Koebel, senior environmental scientist at the South Florida Water Management District. "The massive US\$683 million project is one of the most publicly discussed and debated restoration initiatives ever undertaken in Florida, with extensive community participation."

The Kissimmee River entry will vie for the prestigious International Thiess *Riverprize* against the Meesawin River (Canada), Sha River (China) and Lake Macquarie (Australia). The winner will be announced on 5 September 2006 at a gala award ceremony in Brisbane, Australia.

For information, contact: Joseph Koebel, mobile: +1 407 443 6283 email: jkoebel@sfwmd.gov

Visit: www.sfwmd.gov

www.riversymposium.com

Media assistance: Don Alcock, +61 7 (0) 418 883 063, email: don@keytext.com.au

Lake Macquarie finalist in national and global river prize

Lake Macquarie has received international acclaim for environmental management after being announced as one of four finalists for both the National and International Thierss Riverprize.

Judged by a panel of Australian and international experts, the prestigious Riverprize is awarded each year to a project that demonstrates outstanding efforts in the restoration and protection of waterways and catchments.

Awarded at the International Riversymposium in Brisbane in September, Lake Macquarie is the only waterway restoration project to be named as a finalist for both awards. Facilitated by the Office of the Lake Macquarie and Catchment Coordinator, the Lake Macquarie Improvement Project has used innovative techniques to pioneer an integrated whole-of-government model for improving estuary health.

Since the project began in 1999, the approach, based on restoring natural systems, has resulted in an improvement in water quality, reduction in algae, an increase in seagrass coverage, rehabilitation of foreshore and the protection of once endangered natural wetlands. Lake Macquarie and Catchment Coordinator, Jeff Jansson, said the project has gained unprecedented support and interest from the local community.

"This has seen a dramatic increase in the number of Landcare groups working to improve the local environment. The latest community survey has also indicated that over 53 per cent of the local community believes the Lake environment has improved over the last five years," Mr Jansson said.

"I am delighted that the committee and community's hard work over the past seven years on our most valuable natural asset, Lake Macquarie, has gained recognition at both a national and international level," Lake Macquarie Mayor and Chair of the Lake Macquarie Project Management Committee Cr Greg Piper said.

Cr Piper explained that the key to success was coming up with a sustainable plan of management which balanced economic viability, environmental stewardship and social needs. "The integrated approach has ensured that, as well as addressing immediate environmental issues, long-term strategies are put in place and where possible the needs of the community are also met."

The International and National Riverprizes will be awarded at a gala evening event during International Riversymposium in Brisbane on 5 September. Other national finalists are the Dee River Catchment (Qld), Margaret River Catchment (WA) and Torbay Catchment (WA).

Interviews: Jeff Jansson, mobile +61 (0) 418 210873, email: jjansson@lakemac.nsw.gov.au

Media assistance: Don Alcock, mobile +61 (0) 418 882 063, email: don@keytext.com.au

Lynne Shields, +61 (0) 2 4929 2063, email lynne@fordcomm.com.au

Meewasin listed for \$225,000 International Riverprize

The Meewasin Valley Authority of Saskatchewan, Canada is being recognised for more than 26 years of conservation, education and restoration of large sections of the South Saskatchewan River in Saskatoon's Meewasin Valley as one of four finalists in the 2006 International Thies Riverprize for excellence in river restoration and management.

The AUD \$225,000 International Riverprize will be awarded at the annual International Riversymposium in Brisbane, Australia, on 5 September 2006. The symposium attracts hundreds of delegates from more than 30 countries to discuss how science, policy and community action can improve the health of the world's rivers and watersheds.

Past winners of the International Riverprize include the Drome River (France, 2005) Siuslaw River (2004); Alexander River (Israel, 2003); Mekong River (Cambodia, Vietnam, Thailand and Lao Peoples' Democratic Republic, 2002); Blackwood River (Australia, 2001); and Grand River (Canada, 2000).

Meewasin is actively managing over 1000 acres of high quality natural lands in and around the City of Saskatoon.

Activity in these natural landscapes is centered on gaining conservation easements, furthering research, and actively restoring landscapes using a hands-on approach with community service groups. Meewasin continues to substantially reduce invasive species that threaten these landscapes. The main target species are smooth brome grass, European buckthorn, leafy spurge, and crested wheatgrass.

Part of the Authority's work is to manage the non-profit organization Partners FOR the Saskatchewan River Basin (PFSRB). The group's mandate is to increase understanding, awareness, and stewardship of the Saskatchewan River Basin and their mission is to "promote watershed sustainability through awareness, linkages, and stewardship" throughout the entire Saskatchewan River Basin. The RIVER is our CLIENT.

For information, contact: Susan Lamb, phone: +1 306 665 6887, email: meewasin@meewasin.com

Visit: www.meewasin.com

www.riversymposium.com

Media assistance: Don Alcock, +61 7 (0) 418 883 063, email: don@keytext.com.au or

Sarah Bartlett, + 61 7 (0) 404 504 258 email: sarah@econnect.com.au

Public event alerts

Media Alert

An Inconvenient Truth

If some of the world's scientists are right, we have just ten years to avert a major catastrophe that could send the planet into a tail-spin of destruction involving extreme weather, floods, droughts, epidemics and killer heat waves beyond anything we have ever experienced.

That's the bottom line message from an '*An Inconvenient Truth*', a new movie that highlights former US Vice President Al Gore's crusade to halt global warming's progress.

Date: Sunday, 3 September

Time: 6.30pm – 8.00pm

Venue: South Bank Cinema Complex, 167 Grey St, South Bank

Cost: Free

Bookings: Essential through Riverfestival's website: www.riverfestival.com (limited seating)

Media Alert

H2O Solutions Forum

A public event as part of the International Riversymposium

Want solutions for smarter water use? A panel of experts will discuss the alternatives of desalination, water recycling and dams.

The experts:

Dr Caroline Sullivan: Head of Water Policy and Management - Centre for Ecology and Hydrology (UK)

Emilio Gabbrielli: International desalination expert and head of the Global water Partnership

Cr Di Thorley: Pioneering Toowoomba Mayor and advocate for water recycling

Dr Blair Nancarrow: Director of the Australian Research Centre for Water in Society

Dr Stuart Bunn: River scientist - Centre for Riverine Landscapes, Griffith University.

Date: Wednesday, 6 September

Time: 6.00pm – 7.30pm

Cost: Free

Venue: Brisbane Convention and Exhibition Centre, Plaza Terrace Room

Contacts: Di Thorley phone: +61 7 4688 6631, Mayor@toowoomba.qld.gov.au

Dr Stuart Bunn phone: +61 7 3735 7407, s.bunn@griffith.edu.au

The forum will be moderated by ABC presenter Richard Fidler.

Media Alert

Opening session - International Riversymposium

The opening session for the International Riversymposium presents top advisors to share knowledge about how good science, community action and management can conserve world river systems and water supplies, will be made free to the public.

Presenters:

Ian Campbell: Federal Minister for the Environment and Heritage

David Grey : World Bank water policy advisor

Fred Pearce : environment writer, author of 'When the Rivers Run Dry'.

Date: Monday, September 4

Time: 9.00am – 10.30am

Cost: Free

Venue: Brisbane Convention & Exhibition Centre, Plaza Terrace Room, South Bank.

Visit: www.riversymposium.com and www.riverfestival.com.au

Media enquires:

Dr Selina Ward, Program Convenor, International Riversymposium, 0434 011 988

Don Alcock, media liaison, 0418 882 063, email: don@keytext.com.au

Dr Michelle Riedlinger, media liaison, 0400 577 843, email: michelle@econnect.com.au

Media Alert

Will Brisbane drink recycled water?

Recycling water for human consumption is one of the proposed solutions for future water management. If it were to become a reality, could you be persuaded to raise a glass of recycled water?

Five of Brisbane's leading advertising agencies will give you the hard sell on their campaign, revealed larger-than-life on 6 metre x 3 metre billboards. Hear from our panel of experts from scientific and research fields as they debunk some of the myths surrounding recycled water.

Then it's your turn, to cast your vote for the billboard campaign amongst top advertising agencies that aims to convince you to drink recycled water.

Date: Monday 4 September

Time: 6pm – 7.30pm

Cost: Free

Venue: Plaza Terrace Room, Plaza Level, Brisbane Convention & Exhibition Centre, South Bank

Billboard display:

Tuesday 5 – Wednesday 6 September 8am-5pm and Thursday 7 September 8am-12noon, Plaza Level Foyer, Brisbane Convention & Exhibition Centre

Media Alert

When the Rivers Run Dry

Fred Pearce calls for a 'blue revolution' to avoid the impending global water crisis in his latest book, 'When the Rivers Run Dry'.

The author's 15 year odyssey researching water issues has taken him to 30 countries - from our own Murray Darling River system to the banks of England's Thames River.

He reveals the personal stories behind failing rivers, barren fields, desertification, floods, water wars and the death of cultures.

Date: Monday 4 September

Time: 6.30pm – 8pm

Venue: The Irish Club, 173 Elizabeth Street, City

Cost: \$8 concessions, \$12 full price

Bookings: phone Avid Reader on 3846 3422, or purchase in person at the store at 193 Boundary, Street, West End

Media Alert

Sing for Water

Riverfestival presents Sing for Water in association with Reiser Productions Pty Ltd

A spectacular closing concert that celebrates the power of the human voice, Sing for Water 2006 features some of Australia's best musical talent alongside special guest artist Telek from Papua New Guinea.

Joining our mass choir drawn from across South East Queensland are David Campbell, Paul Grabowsky, Megan Washington and Adam Lopez.

All round entertainer David Campbell has performed many roles in musical theatre including the lead of Johnny O'Keefe in "Shout". ARIA award winner and legendary jazz artist Paul Grabowsky will be accompanied by jazz chanteuse Megan Washington.

Telek's haunting voice and lyrics will capture the spirit of the proud cultural heritage of the Tolai people of Papua New Guinea. With his seven octave voice, Adam Lopez will deliver a unique fusion of pop and opera.

WaterAid Australia

Sing for Water will raise money for a project located in the Eastern Highlands of Papua New Guinea. The project is run by WaterAid Australia, an international non-government agency dedicated to providing safe drinking water, sanitation and hygiene education to the world's poorest people.

With a target of raising \$81,747, WaterAid will be able to complete the second stage of a project for 10 community schools and 3,700 students.

Date: Sunday 10 September

Time: 6pm-8pm

Venue: River Stage, City Botanic Gardens

Cost: FREE ENTRY. Food and drink available for purchase (fully licensed).

Program: Featuring David Campbell, Paul Grabowsky and Megan Washington, Adam Lopez and George Telek

Musical Director: Sean O'Boyle

Choir Conductor: Harley Mead

Band: Blackwood

Hosted by National Nine News presenter Bruce Paige

Visit: www.singforwateraustralia.com

www.wateraid.org.au

Media briefs

Australia

Brisbane catchment partners with Thailand for better river health (Water and society - Qld)

The Bulimba Creek Catchment Coordination Committee's (B4C) staunch volunteer Wayne Cameron, is working on a partnership with the Yadfon Association in Thailand to combine pairs of schools and their catchments to learn about each others' rivers and management issues. B4C is using their winnings from the IRF National Riverprize 2005 to support the project.

Wayne Cameron will present at 11:00 on Monday 4th Sept. in session 1B.2

Contact: Wayne Cameron, B4C President and Manager Southside Catchment and Volunteer Centre

Phone: (07) 3420-4800

Mobile: 0413 476 736

Email: b4c@bulimbacreek.org.au

Reef guardians recognised through new program (Water management - Qld)

The Great Barrier Reef Marine Park Authority are encouraging best practice in local government management of the the World Heritage site through a Reef Guardian Council program. The program, which follows the successful Reef Guardian Schools program, requires government, industry, and the community to cooperate on is issues such as polluted water from creeks and rivers feeding into the sea.

Jason Vains will present at 15:30 on Tuesday 5th Sept. in session 2D.5

Contact: Mr. Jason Vains, Project Manager, Great Barrier Reef Marine Park Authority

Phone: 07 4875 0856

Mobile: none

Email: J.Vains@gbrmpa.gov.au

Japanese water managers leading by example (Water management - Qld)

Australia can look to Japan for guidance on how to use river water sustainably and efficiently, according to researchers from The University of Queensland. Their case study examines how a diversion channel, which controls the flood-prone Shinano river, has led to significant economic and environmental benefits. The researchers also discuss some of the factors responsible for the success of Japanese irrigation management, such as self-governing irrigators' associations which operate mostly independently of the government.

Ashutosh Sarker will present at 13:30 on Wednesday 6th Sept. in session 3C.5

Contact: Dr. Ashutosh Sarker, Postdoctoral Fellow, University of Queensland, Australia

Phone: 07 5460 1053

Mobile: 0413 821 146

Email: a.sarker@uq.edu.au

Preserving Queensland's Wild Rivers

(River conservation - Qld)

John Amprimo will present the Queensland Government approach to preserving the state's remaining wild rivers, which have all or almost all of their natural values intact. To achieve this objective the Government has introduced, under the Wild Rivers Act 2005, a formal planning process including extensive community consultation to declare individual wild rivers. Six river systems nominated in December 2005 are presently undergoing community consultation. Preserving these river systems will benefit current and future generations by supporting economic pursuits that rely on a 'clean and green' image; underpinning healthy aquatic ecosystems; and helping to maintain social amenities.

John Amprimo will present at 11:00 on Monday the 4th of Sept. in session 1B.4

Contact: John Amprimo, Director, Water Monitoring and Information, Department of Natural Resources and Mines

Phone: +61-7-3224 7668

Mobile: none

Email: John.Amprimo@nrm.qld.gov.au

South Eastern Australian Climate Initiative - Bryson Bates

(Climate change – NSW/Vic)

Director of CSIRO's Climate Program and a senior scientist with CSIRO Land and Water, Bryson Bates will outline new ways to detect and model climate change and discuss how the South Eastern Australian Climate Initiative will improve our understanding of current and projected climate change, and develop more reliable seasonal forecasting methods.

Bryson Bates will present at 15:30 on Tuesday 5th Sept. in session 2D.1

Contact: Dr. Bryson Bates, Director, CSIRO Climate, CSIRO

Phone: 02 6246 4569

Mobile: 0418 977 028

Email: Bryson.Bates@csiro.au

Climate change and Victoria's rivers

(Climate change - Vic)

Jane Doolan of Victoria's department of Sustainability will outline the implications of climate change to Victoria's rivers, and how various regional river planning frameworks must change. Her paper will focus on how Victoria is integrating climate change research to enhance environmental flows in stressed systems, and how communities are adapting to risk by applying principles for better management.

Jane Doolan will present at 14:00 on Monday 4th Sept. in session 1C.1

Contact: Dr. Jane Doolan, Executive Director, Dept. Sustainability & Environment

Phone: 03 9637 9971

Mobile: none

Email: jane.doolan@dse.vic.gov.au

Maximising water with the macro approach

(Water management- NSW)

Eddie Harris will describe the innovative role that New South Wales water managers are taking to managing water for the economy, the environment, and regional communities. He will describe the macro approach that balances water production with the need to protect the environment. The approach follows on from water sharing plans already in place for the state's regulated rivers.

Eddie Harris will present at 13:30 on Wednesday 6th of Sept. in session 3C.2

Contact: Mr. Eddie Harris, Project Leader, Department of Natural Resources, Australia

Phone: 02 49605030 **Mobile:** none given **Email:** eddie.harris@dnr.nsw.gov.au

Water Recycling in Australia

(Water recycling)

James Hill of the Department of Agriculture, Fisheries and Forestry (DAFF) presents findings by the Academy of Technical Sciences and Energy on water recycling in Australia. The findings provide federal and state governments with policies to encourage greater use of recycled water. Key impediments to investment in recycled water are the cost, lack of financial incentives and public perceptions of health risks.

James Hill will present at 10:30 on Wednesday 6th Sept. in session 3B.6

Contact: Mr. James Hill, DAFF

Phone: none given **Mobile:** none given **Email:** James.Hill@affa.gov.au

Healthy water makes happy and well-to-do communities

(Water and society)

Melanie Cox of the Coastal CRC shows that social and economic well-being is directly linked to the health of our local rivers, beaches, bays and coastline. The project developed a framework to assess the health, social and economic impacts of changes in coastal waterway condition. Her results have important implications to urban planners and developers, especially as more Australian move to live in coastal regions near estuaries.

Melanie Cox will present at 11:00 on Monday 4th Sept. in session 1B.5

Contact: Melanie Cox, PhD student, Coastal Zone Cooperative Research Centre (CRC)

Phone: 07 32247792 **Mobile:** 0412 673 561 **Email:** melanie.cox@nrm.qld.gov.au

National water planning session

(Water planning)

Ken Matthews, Director of the National Water Commission, **Peter Cullen**, NWC Commissioner (and chair of the Wentworth Group), **Angela Arthington**, Griffith University water scientist, **Geoff Carvener**, a farm irrigator, and several other panellists consider future Australian water policies including the National Water Initiative. The initiative, agreed to by the Council of Australian Governments, sets principles that underpin Australia's use of water for many years to come.

The water planning session will be held at 11:00 on Monday 4th Sept. in session 1B.2

Contact: Mr. Ken Matthews, Director, National Water Commission

Phone: 02 6102 6063 (Amanda Harms) **Mobile:** none **Email:** Amanda.harms@nwc.gov.au

Aquasystem jigsaw to be completed by 2010

(Water planning)

Dr Stuart Blanch from WWF Australia proposes an integrated national policy framework for identifying and protecting aquasystems of high conservation value. Dr Blanch says the present scenario is like a jigsaw puzzle where only some pieces fit together. The WWF plan outlines objectives and specific targets for developing an identification and protection system by 2010. Rivers, creeks, wetlands, floodplains and estuaries are valuable resources that affect Australia's biodiversity, way of life, agriculture and industry.

Stuart Blanch will present at 13:30 on Tuesday 5th Sept. in session 2C.5

Contact: Dr. Stuart Blanch, Manager Freshwater, World Wildlife Fund - Australia

Phone: 08 89417554 **Mobile:** 0427 957 868 **Email:** sblanch@wwf.org.au

Does investing in water research make a difference?

(Research investment)

Nicolas Schofield, from Land & Water Australia uses eight case-studies to describe a method to evaluate the impact of research into water-related issues like waste disposal and efficient water use for investors. This methodology successfully evaluates research into vital areas of water management, such as waste and effluent disposal, pesticide impact assessment, and water use efficiency, which are increasingly relevant in light of current water restrictions around Australia.

Nicolas Schofield will present at 10:30 on Tuesday 5th Sept. in session 2B.3

Contact: Dr. Nicholas Schofield, Science Manager, Land & Water Australia

Phone: 02 6263 6004 **Mobile:** 0408 4111 09 **Email:** nick.schofield@lwa.gov.au

River recovery Australia-wide

(River restoration)

Carl Binning from Greening Australia describes “River Recovery,” a 150-million-dollar effort to restore a staggering 22,000 kilometres of river systems around Australia. This huge challenge requires co-operation across the spectrum, from governments and industries down to the community volunteers that will be wading knee-deep in marshy billabongs. Victoria’s famous Yarra and South Australia’s Lower Murray are two of the nine targeted river systems, considered by Greening Australia to be among the most degraded and damaged river systems of our nation. Investment in “River Recovery,” and the effort of many co-operating bodies, will remove the threat of irreparable decline from these river systems, so that new generations of Australians can enjoy these natural icons.

Carl Binning will speak at 13:30 on Thursday 6th of Sept. in session 3C.4

Contact: Mr. Carl Binning, CEO, Greening Australia

Phone: 02 6281 8585

Mobile: none

Email: ksampson@greeningaustralia.org.au

Before you tap into our resources, check the facts

(Water planning - Northern Australia)

Cuan Petheram from CSIRO Land and Water shows how North Australian Irrigation Futures project will help communities decide whether they want irrigation in Northern Australia, and why irrigation developers must be carefully scrutinised before they are allowed access to Northern Australia’s precious water resources. Northern Australia contains some of Australia’s most beautiful and well-protected river systems—many with iconic status, as well as strong cultural significance for indigenous Northern Australians. However, there has been a recent push for the tapping of these natural water resources for irrigation purposes. The growing interest in irrigation does not take into account the fluctuations in water availability and streamflow during seasonal changes. To help provide information on northern Australia’s ability to support irrigation, the Western Australian, Northern Territorial, and Queensland State governments, in partnership with Land and Water Australia and CSIRO, have initiated the NAIF project.

Cuan Petheram will present at 13:30 on Tuesday 5th Sept. in session 2C.3

Contact: Dr. Cuan Petheram, Hydrologist, CSIRO

Phone: 07 47538626

Mobile: none

Email: cuan.petheram@csiro.au

Weeping willows using up precious water resources

(Rural)

A project initiated by Waters for Rivers has found that removing willow trees from creeks transporting irrigation water could result in water savings of 2-4ML per hectare per year. Weeping willows are capable of sucking large amounts of water from the streams they live in and has become a serious environmental issue through out Eastern Australia. The project is looking at rainfall, soil evaporation and transpiration rates to estimate the environmental benefits of removing willows from waterways.

Tanya Doody will be present at 15:30 on Tuesday 5th Sept. in session: 2D.4

Contact: Tanya Doody, Experimental Scientist, CSIRO-ENSIS

Phone: 08 87218114 **Mobile:** 0419 848821

Email: tanya.doody@csiro.au

Urban thirst for water may take a toll on agricultural production (Rural)

Mark Hamstead believes the impact on regional economies and the rural water markets that rely on agriculture need to be seriously considered before proposals of tapping into water used for irrigation as a cheap alternative water source can go ahead. Recent proposals to purchase irrigation water for urban water supplies have included measures to prevent negative effects on agriculture production.

Mark Hamstead will be present at 15:30 on Tuesday 5th Sept. in session 2D.6

Contact: Mark Hamstead, Principal, Hamstead Consulting Pty Ltd.

Phone: (ah) +61247391585 **Mobile:** 0438 006290 **Email:** markhamstead@netspace.net.au

Murray Darling comes to terms with the uncertainty of climate change (Rural)

Scientists are using computer programs to consider the uncertainty of climate change in the Murray Darling Basin so that farmers and policy makers can respond to the changes as best they can. The general patterns of global warming are well understood, but how it will affect individual regions like the Murray Darling is uncertain. It is this uncertainty that causes problems for farmers, environmental managers and policy makers that computers may be able to clarify.

John Quiggin will be presenting at 13:30 Wednesday 6th Sept. in session 3C.1

Contact: Professor John Quiggin, Federation Fellow, University of Queensland.

Phone: +61 7 33469646 **Mobile:** none **Email:** j.quiggin@uq.edu.au

Heavy metals in seafood, a health risk we can manage with healthy waterways (Rural)

Local councils, industry partners and utilities have come together under the Derwent Estuary Program (DEP) to manage the health of the waterways, and its impact on human health. The banks of the Derwent Estuary in Tasmania are the home of shellfish with high levels of heavy metals and finfish with high levels of mercury, both which can impact human health. The program monitors a number of seafood safety issues including the levels of mercury and other heavy metals like zinc, cadmium, copper and lead in the sea animals.

Ruth Eriksen will be presenting at 09:00 on Thursday 7th Sept. in Session 4A.3.

Contact: Dr Ruth Eriksen, Scientific Officer, Department of Primary Industries, Water and Environment.

Phone: 03-62 33 3383 **Mobile:** 0429 488 404 **Email:** Ruth.Eriksen@dpiwe.tas.gov.au

One of the last “healthy” rivers of Victoria targeted for supply

(Rural)

The Corangamite Catchment Authority completed a study using FLOWS and REALM methods to determine if a proposal to connect the Gellibrand water reservoir to the Geelong water supply and draw an additional 6 GL of water from the river is viable. The Gellibrand River is one of the last large rivers used as an urban and rural water source that is still regarded as healthy, which has made it a target for exploitation. The study will determine if the river can stay healthy while delivering high levels of urban water with the potential reduced flows that climate change may cause.

Greg Williams will be presenting at Wednesday 6th Sept. in session 3C.1

Contact: Mr. Greg Williams, Environmental Water Reserve Officer, Corangamite Catchment Management Authority.

Phone: 03 5232 9130

Mobile: 0429 808 908

Email: greg.williams@ccma.vic.gov.au

I’ll trade you 600GWh of electricity for one healthy river

(Rural)

An incentive scheme to encourage irrigators to reduce their water usage aims at swapping 600GWh of free energy per year for 1500GL of water. The reduction of farmer’s irrigation water allocation from 7500GL per year to 6000GL leaves the 20 percent environmental flow needed to maintain healthy rivers. The swap of water for power will compensate irrigators for their environmental services and encourage a shift to more water efficient irrigation systems.

Michael Longhurst will be giving a poster presentation in the poster session 2D.4, Tuesday 5th Sept.

Contact: Michael Longhurst, Central West Catchment Management Authority, NSW.

Phone: 02 6885 0104

Mobile: 0419 479 744

Email: Michael.Longhurst@cma.nsw.gov.au

International

Blue Revolution - Fred Pearce

(Water management)

In his latest book 'When the Rivers Run Dry', Fred Pearce calls for a 'blue revolution'. The author's 15 year odyssey researching water issues has taken him to more than 30 countries. He recalls the personal stories behind failing rivers, barren fields, climate change, desertification, floods, water wars and the death of cultures. Locating our regional water crisis in a global context, he also offers a way forward to meet this global challenge.

Mr. Fred Pearce will present at 10:00 on Monday 4th Sept. in session 1A Plenary.

Contact: Mr. Fred Pearce, Author

Phone: through Econnect on 0404 504 258 or 0400 577 843 **Email:**
PEARCEFRED@compuserve.com

Exchanging sustainable water management practices

(Water management)

Jane Bateson compares water management in North America and Australasia, looking at targets, engagement, and the move towards improved practices. The work comes from a visit taken in October 2005 by nine young leaders from government and industry in Australia and New Zealand to nine cities across North America. The Sustainable Urban Water Management Study Tour was funded by the Brian Robinson fellowship and Melbourne Water, that aids the international transfer of knowledge on sustainable urban water practices.

Jane Bateson will present at 10:39 on Tuesday 5th Sept. in session 2B.6

Contact: Miss Jane Bateson, Team Leader Catchment Strategies

Phone: + 61 39235 2546 **Mobile:** 0407 822900 **Email:** jane.bateson@melbournewater.com.au

Sea level rise

(Climate change - Bangladesh)

Nasreen Mohal of the Institute of Water Modelling will present a frightening scenario about the impacts of climate change on sea level rise and coastal rivers in Bangladesh. Advanced computer models have projected sea level rise impacts for 2030, 2050 and 2100. By 2100, 11 per cent of the coast will be under water, the Sundarbans (the world's largest mangrove forest) will be lost, saltwater will have destroyed vast areas of farmland, and twice as many cyclones will kill millions of people.

Nasreen Mohal will present at 09:00 on Thursday 7th Sept. in session 4A.1

Contact: Ms Nasreen Mohal, Senior Specialist, Institute of Water Modelling

Phone: 88-02-9677508 **Mobile:** none **Email:** nam@iwmbd.org

Climate Change and the UK

(Climate change - UK)

David Webb, UK Climate Impact Program shows the UK will experience higher temperatures, wetter winters, drier summers and more frequent drought and flood events. In London, the river impacts will be amplified due to urban heat, habitat loss and pollution; more than 70 per cent of London's Thames tributaries flow through concrete channels. He will outline London's ambitious strategy to restore its network of tributaries and the program's environmental, social and economic benefits.

David Webb will present at 14:00 on Monday 1st Sept. in session 1C.1

Contact: Mr. David Webb, Regional Principal Ecologist, Environment Agency

Phone: 44 (0) 1276 454538 **Mobile:** 44 (0) 1256 764049 **Email:** david.webb@environment-agency.gov.uk

Natural flooding a necessity

(Water management - Thailand)

David Blake of the World Conservation Union highlights the benefits of natural flooding along the Songkhram River wetlands, a critical floodplain of the Mekong River Basin in Thailand. While floods are mostly presented in a negative way they are critical to the Songkhram region, carrying sediment and nutrient to restore soil fertility. Local communities and people's livelihoods have adapted to the regular annual flood-drought cycle.

David Blake will present at 10:30 on Tuesday 5th Sept. in session 2B.4

Contact: Mr David Blake, Technical Advisor, Thailand Demonstration Site, IUCN, The World Conservation Union

Phone: 66-42-599 618 **Mobile:** none **Email:** davidblake@iucnt.org

The challenge of the Mekong

(Water planning - Asia)

A two month study, The Challenge of the Mekong, considers the negative impacts of agriculture and dam projects along the Mekong River and encourage the development of projects without detriment to the community that depends on the river. The Mekong River flows through six countries, China, Myanmar, Thailand, Lao, Cambodia and Vietnam. Agricultural developments and the current number of dams and plans for future building of more dams are cause for concern in the community living in the Mekong basin. Such developments have negative impacts on people living on or near the river, endanger traditional livelihoods and upset the ecological balance that is necessary to sustain the river..

Meng Tek will present at 14:00 on Monday 4th Sept. in session 1C.2

Contact: Mr. Meng Tek, Lecturer and Researcher, Royal Academy of Cambodia (RAC)

Phone: + 855 23890167 **Mobile:** none **Email:** mengtiric@yahoo.com

The Big Jump – European river health awareness campaign (Water and society - Europe)

Roberto Epple, the founder and Coordinator of the European River Network (ERN) believes European people have lost a connection with rivers because they've been heavily polluted since the end of the Second World War. Through the ERN Big Jump project, a European river swimming day, the group hopes to regain people's interest in the rivers to give them awareness of and gain their support for The Water Framework Directive (WFD), the European Union's main law for protecting waterways.

The WFD and the ERN are planning a coordinated effort to clean up European rivers by 2015. It's a very ambitious and expensive goal but the ERN believe with increased interest in the health of the river, community pressure and sponsorship they'll get closer to it.

Roberto Epple will present at 16:30 on Monday 4th Sept. in session 1D Plenary.

Contact: Mr. Roberto Epple, Founder-President, The European Rivers Network

Phone: +33 (0)4 71 05 57 88 **Mobile:** +33 (0)6 08 62 12 67 **Email:** roberto.epple@rivernet.org

The dynamic response of ecosystems to human use (Sustainability - Taiwan)

Researchers at Da-Yeh University, Taiwan, have developed a model of sustainable human use of ecosystems. Tung Hui-Ling is researching the impact of human activities on ecosystems and their sudden collapse when environmental threshold values are exceeded. Ecosystems are highly complex and unpredictable in their response to human activities. The researchers are using the catastrophic response of a shallow lake as a theoretical case study.

Tung Hui-Ling will present at 13:30 on Wednesday 6th Sept. in session 3C.3

Contact: Professor Tung Hui-Ling, Assistant Professor, School of Management, Da-Yeh University

Phone: 886-4-8511888 ext 3077 **Mobile:** 0928-362469 **Email:** [huiling7@mail.dyu.edu.tw](mailto:huilin7@mail.dyu.edu.tw)

Resilience of New Orleans after Hurricane Katrina (Disaster recovery - USA)

Douglas Meffert will present the impacts of Hurricane Katrina and the challenges faced by the Bring New Orleans Back Commission in rebuilding the region. With more than 80% of the city inundated, a wealth of natural and built treasures were destroyed. Major challenges to long-term sustainability in the region include coastal wetland restoration, levee protection, debris removal and management, environmental contamination, smart growth, sustainable architecture, and urban ecology.

Douglas Meffert will present at 10:30 on Tuesday 5th Sept. in session 2B.5

Contact: Professor Douglas Meffert, Deputy Director, Tulane and Xavier Universities

Phone: 1-504-988-6910 **Mobile:** 1-504-319-3438 **Email:** dmeffert@tulane.edu

20 percent increase in water resources through better management (Water management - SA)

Department of Water Affairs and Forestry researcher Tadeusz Malkiewicz, suggests that South Africa could potentially increase their available water resources by about twenty per cent using integrated water resources management. The strategy focuses on the health of river systems including the maintenance of biodiversity, and integrates the technical and social aspects of water management. Mr Malkiewicz will also discuss responses to other changes in water flow regimes such as droughts, floods, and natural disasters like Tsunamis.

Tadeusz Malkiewicz will present at 13:30 on Tuesday 5th Sept. in session 2C.4

Contact: Mr. Tadeusz Malkiewicz, Deputy Chief Engineer, Department of Water Affairs and Forestry

Phone: + 271 23368608 **Mobile:** + 278 28049978

Email: pau@dwaf.gov.za

Feral robotic canines, you say?

(Water and society - USA)

Dr Natalie Jeremijenko has used off-the-shelf toy robotic dogs to create Feral Robotic Dogs or environmental toxin super-sensing canines. Dr Jeremijenko will discuss using these carcinogenic detecting dogs in community education and engagement for environmental management. The robots have been used to raise the awareness of seven international sites so far (including the Bronx River in New York), and a proposal exists for a future "pack release" in the Brisbane River catchment area. Her research explores the intersection of art, science, and engineering.

Natalie Jeremijenko will present at 14:00 on Monday 4th Sept. in session 1C.5

Contact: Ms Natalie Jeremijenko, *University of California, San Diego*

Phone: none **Mobile:** +1.917.443.2179 **Email:** njeremijenko@ucsd.edu

Feature releases

Climate change heralds dry times ahead

Fresh water from rivers will be in even shorter supply as climate change gathers pace. Increasing temperatures will dramatically impact on the world's great rivers. Combined with population growth and more competition for water resources, rivers are becoming the new political battleground, according to three recent international reports.

While some flows will increase, many that provide water for the majority of the world's population will simply dry up.

Climate change is now recognised as a real and significant worldwide trend. Rising levels of carbon dioxide pollution, caused by the burning of oil, coal and gas, warm the atmosphere and affect water vapour, cloud cover, solar radiation and ozone, which in turn will have an impact on evaporation and rainfall.

This is expected to shift precipitation patterns so that some regions already receiving abundant rainfall will get more, while others receiving little rainfall may get less, according to climate modelling recently undertaken at Princeton University and published in the journal *Climate Change* (vol 64, p 59).

The changes will present a "profound challenge" to the world's water managers, says the report's lead author Syukuro Manabe. They are also likely to fuel calls for a new generation of super-dams and canals to move water round the planet, like China's current scheme to transfer water between north and south.

Some of the predicted changes are already happening.

Once-great rivers like the Yellow in China, the Ganges and Indus in India, and the Rio Grande on the border of Mexico and the United States now regularly dry up or clog up, with obvious consequences for aquatic species, and human health and sanitation, especially for people who depend intimately upon their rivers for drinking, bathing, and cooking water.

And in a global warming study published recently by the journal *Science*, scientists say Africa's rivers face dramatic disruption that will leave a quarter of the continent severely short of water by the end of the century.

In the first detailed assessment of climate change on the Africa's waterways, researchers found that watercourses on the continent are highly sensitive to shifts in rainfall patterns. Even modest decreases in rain in western Africa will see rivers lose as much as 80% of their water, triggering a surge of what the scientists call "water refugees".

Worldwide, freshwater shortages are likely to trigger increased environmental damage over the next 15 years, according to another United Nations Environment Programme report of the world's waters. Falls in river flows, rising saltiness of estuaries, loss of fish and aquatic plant species and reductions in sediments to the coast are expected to rise in many areas of the globe by 2020. These in turn will intensify farmland losses, food insecurity and damage to fisheries along with rises in malnutrition and disease.

Overall, agriculture ranks highest as the key concern on the freshwater front among the 1,500 experts involved in the final report of the Global International Waters Assessment (GIWA). The report,

Challenges to International Waters: Regional Assessments in a Global Perspective, released in March 2006 by UNEP, was funded by the Global Environment Facility and several national governments.

So what can we do? The complex issue of climate change and fresh water from rivers will be tackled at this year's International Riversymposium, which Australia hosts each year in Brisbane. The theme, 'Managing rivers with climate change and expanding populations' looks at the challenge of meeting human needs for water under changing climatic conditions.

And it's not all about doom and gloom. The symposium's breadth of presentations show how good science and community action can improve the health of river systems, how new technology can maintain water quality, and how knowledge can be used to sustain community needs with adequate environmental flows. Hundreds of symposium participants share case studies and examples on how to tackle threats to their rivers. Often, it's about tackling social problems that require political action.

The symposium is an integral part of Brisbane's annual broad-based cultural event, the *Riverfestival*. Now in its ninth year, the symposium provides a global forum which aims to make a difference to the declining state of rivers and waterways globally. Sessions include river issues such as planning for climate change; managing wetlands; responding to natural disasters; the role of NGOs in managing rivers; challenges for rivers in the Pacific; Indigenous river management; environmental flow for rivers and estuaries; and community catchment management. It's a event where participants learn how to act locally.

Riversymposium attracts leading water experts from around the world and Brisbane's Convention Centre will be buzzing from 4 - 7 September 2006 with new ideas, policies, agreements, debates and technology to address some of the world's most pressing water related issues.

This year's keynote presenters include David Grey (World Bank), Dr John Olley (CSIRO Land and Water), Dr Caroline Sullivan, (UK Centre for Ecology and Hydrology), Professor Pedro Arrojo Agudo (New Water Culture Foundation), Roberto Epple (European Rivers Network), Emilio Gabbrielli (Global Water Partnership), David Molden and Max Finlayson (International Water Management Institute).

Once again, the four-day event includes announcement and presentation of the prestigious International and National Thiers Riverprize. The prize recognises outstanding achievements by groups involved with river conservation and management. Finalists will present their work in both plenary and concurrent sessions.

A number of Australian river and catchment case studies will be studied. Overseas case studies include the Congo, Amazon, Yangzte and Chao Phraya rivers.

Special workshops are planned for climate change, AusAID regional plans, World Water Monitoring Day, and water planning in Australia. Several Cooperative Research Centres (CRCs) have young postgraduate students competing for the Young Water Scientist of the Year Award.

The 2006 International Riversymposium is open to everyone and registrations are available. For information, program outline and booking visit: www.riversymposium.com

Media enquires: Don Alcock, phone 0418 882 063, email: don@keytext.com.au or

Sarah Bartlett, phone 0404 504 258, email: sarah@econnect.com.au

Blue revolution needed as world population swells

Water experts, meeting in Brisbane next month during the city's annual Riverfestival will investigate the global challenge of meeting the need for water by a rising human population at a time of climate change. They will call for radical new approaches to tackle the threats to rivers and catchments, reports Don Alcock.

As a thirsty, expanding world seeks out new sources of water, scientists, politicians and resource managers are under enormous pressure to find better ways to reduce poverty, feed additional millions each year, and restore damaged river ecosystems.

Major rivers, aquifers, wetlands and lakes are being drained to cope with expanding populations. Many large rivers now run dry before they reach the sea, as freshwater is diverted for agriculture and dams. Once-great rivers like the Yellow in China, the Ganges in India, the Nile in Egypt and the Colorado in the United States regularly dry up or clog up, with obvious consequences for human health, especially for people who depend intimately upon them for drinking water.

The world's population is expected to rise from the current 6.5 billion to 9.1 billion by 2050, mostly in the developing world, with freshwater shortages triggering increased environmental damage. More than half the world's five million lakes are now endangered.

According to the United Nations 2006 Global International Waters Assessment report, falls in river flows, rising saltiness of estuaries, loss of fish and aquatic plant species, and reductions in sediments to the coast are expected to rise in many areas of the globe by 2020. These in turn will intensify farmland losses, food insecurity and damage to fisheries along with rises in malnutrition and disease.

"Our immediate challenge is feeding an additional 70 million people each year and reversing ecosystem degradation," says Max Finlayson, president of Wetland International. Finlayson is an Australian wetland ecologist based at the International Water Management Institute in Sri Lanka. He and colleague David Molden, an agricultural engineer at IWMI, are keynote speakers at International *Riversymposium* in Brisbane.

"More people will require more water for agriculture, yet the way that people use water in agriculture is the biggest cause of ecosystem degradation. River systems and wetlands have born the brunt of agricultural driven degradation," says Finlayson.

Both scientists call for a new approach to solve water scarcity and poverty problems in developing countries. It includes securing access to water for poor small farmers for food security and targeting the use of water to generate income. They want to intensify agriculture but limit expansion in the use of water and land resources wherever possible; and increase the value per unit of water in agriculture by taking advantage of benefits from multiple uses of water.

"The way of doing business by treating agriculture and water management as almost separate processes from ecosystem conservation has not served us well. The past singular approach to biodiversity has had its day; in fact, given recent data it has probably failed us.

"We need a wider and more inclusive approach if we are to feed people globally and conserve the remaining biodiversity, let alone reverse past damage to wetlands and rivers," says Finlayson.

According to many river experts attending International Riversymposium, the world needs a Blue Revolution to conserve and manage freshwater supplies in the face of growing demand from population growth, climate change, irrigated agriculture, industries, and cities—just as the Green Revolution transformed agriculture in the 1960s. A Blue Revolution will require coordinated responses to problems at local, national, and international levels.

Locally led initiatives show that water can be used much more efficiently. When communities manage freshwater resources efficiently, they also manage other natural resources better, improve sanitation, and reduce disease.

At the national level, especially in water-short regions with dense populations, adopting an watershed or river-basin management perspective is a needed alternative to uncoordinated water-management policies by separate jurisdictions. At the international level countries that share river basins can fashion workable policies to manage water resources more equitably. Development agencies need to focus more on assuring the supply and management of freshwater resources is better linked to social development and ecosystem health.

David Grey, senior water advisor at the World Bank, even goes further. He emphasises the relationship between the sophistication of a country's water management and its economic health. "Water is a key driver of sustainable growth and poverty alleviation as it underpins almost all types of economic activity, from farming to manufacturing, rural livelihoods, energy and transport."

Grey, another International Riversymposium keynote speaker, believes the solution to water security in developing countries lies in establishing a good platform of water resource institutions and infrastructure. "If this is done, then countries reach a tipping-point where the overall impact of water enhances, rather than obstructs, a country's economic growth."

"Here is the challenge," says Grey. "Can the lessons of developed countries, enhanced by local and indigenous knowledge, provide alternative water management strategies, infrastructure designs and operations? Are there alternatives to infrastructure altogether – that still achieve water security, economic growth and poverty alleviation but have lower environmental and social impacts?"

Other keynote speakers include the Hon. Ian Campbell (Federal Minister for the Environment and Heritage), Dr John Olley (CSIRO Land and Water), Dr Caroline Sullivan, (UK Centre for Ecology and Hydrology), Professor Pedro Arrojo Agudo (New Water Culture Foundation), Roberto Epple (European Rivers Network) and Emilio Gabbrielli (Global Water Partnership).

The International Riversymposium is an annual forum that brings together river and catchment experts to share knowledge about how good science, community action and management can conserve world river systems and water supplies.

Visit: www.riversymposium.com and www.riverfestival.com.au

Max Finlayson phone: +94 11 2787404, mobile +94 777 562 217

email: m.finlayson@cgiar.org

David Grey email: dgrey@worldbank.org

Media enquires: Don Alcock, phone 0418 882 063, email: don@keytext.com.au or

Sarah Bartlett, phone 0404 504 258, email: sarah@econnect.com.au

Photos: Digital photos are available on request.

World rivers sound warning on climate change

Water, rivers and climate change are inextricably linked, and are ringing warning bells across the world. More than ever before, the global water situation is uniting people in hardship, with billions being spent to protect water supplies, livelihoods and, ultimately, lives.

In Australia, one of the driest continents, a growing population and drying climate is challenging environmental scientists, water managers and politicians to find short and long-term solutions to the growing crisis. And answers are not cheap or easy, often being social problems that require political action.

The statistics alone are frightening. Of the water available for Australians to use, one quarter of the rivers and lakes are already used for drinking, industry and agriculture, and one third of underground water is being pumped to the surface and used for the same purposes.

If you ask Australia's national science agency, the CSIRO, about climate change, the outlook is bleak. By 2030 rainfall on the major capitals (except Hobart) could drop by 15 per cent. According to the 2001 report, *Climate Change Projections for Australia*, Perth could lose up to 20 per cent of rainfall. At the same time, rising temperatures will increase evaporation, further reducing water supplies in dams, rivers and reservoirs.

In another recent scientific report by the same agency, which examines water price implications for each of Australia's main cities and regions in 25 years' time, the real price of water could skyrocket.

The 2006 report, *Without Water: The economics of supplying water to 5 million more Australians*, says if governments do not act to expand water trading and access 'new' sources of water such as building desalination plants, establishing large sewage recycling schemes and making use of storm water, the price of water would increase by between five and ten times in large cities to manage demand.

Internationally, the situation is not better, and in many areas is worse. The United Nations describes the global water situation as a "crisis... essentially caused by the way in which we mismanage water." The UN is so concerned about water, it has named 2005 to 2015 as the Decade of Water.

More than 2.7 billion people will face severe water shortages by the year 2025 if the world continues consuming water at the same rate, the United Nations has warned in its annual World Water Assessment Program report.

The looming crisis is being blamed on mismanagement of existing water resources, population growth and changing weather patterns. The areas most at risk from the growing water scarcity are in semi-arid regions of sub-Saharan Africa and Asia.

"Even where supplies are sufficient or plentiful, they are increasingly at risk from pollution and rising demand," says UN Secretary General Kofi Annan.

Extremes in water supply deliver unacceptable shocks to the developing world, explains World Bank Senior Water Advisor, David Grey. "Monsoons, droughts, depleted groundwater resources, and typhoons devastate poor countries because they're in too deep a hole economically to reduce their risk," he says.

Grey, soon to visit Australia as a keynote speaker for the International Riversymposium, sees a strong link between the sophistication of a country's water management and its economic health. He says investors are avoiding countries with unpredictable food production, health problems related to poor water quality, and unreliable electricity supplies.

"Investment doesn't flow to places where catastrophic water events cause huge social and economic problems and large-scale losses of life," says Grey.

Like many international water experts, Grey believes Australia must take a lead role with international assistance, training and capacity building for river management, particularly in the Asian Pacific region. He's impressed by organisations such as the International Riverfoundation which has set up 'twinning' programs to help developing countries better manage their river catchments.

Partnerships and community action are critical to managing water and protecting rivers. Many will be highlighted at the coming International Riversymposium in Brisbane in September.

The theme, '*Managing rivers with climate change and expanding populations*' will investigate the challenge of meeting human needs for water under changing climatic conditions. It's an opportunity for hundreds of people to share ideas, case studies and examples on how to tackle threats to rivers and catchments.

"Local communities can do amazing things," says Riversymposium chair Professor Paul Greenfield of the University of Queensland. "There are many positive stories showing how science, public policy and community action are addressing river and global warming issues."

"For example, the Bulimba Creek Catchment Association, typical of many local conservation groups throughout Australia, has an outstanding record of revegetating bushland and improving water quality in a network of Brisbane creeks," says Professor Greenfield.

"The association coordinates Waterwatch, supports local Bushcare groups, provides training programs to volunteers, and involves community groups in practical conservation projects."

"Since 1999, the group has involved the community in rehabilitating 46 sites within the catchment, and four sites outside it with support from Landcare, the Natural Heritage Trust and local leaders."

Each year, the symposium highlights new international and Australian industry practices, government regulations, technology and community education programs to sustain river water supply and quality. The four-day event also includes the prestigious Thies International and National Riverprize.

The prize, regarded as the 'Nobel prize for saving rivers', recognises outstanding achievements in river conservation and management. There are overseas nominations from Israel, U.S.A., Kyrgyzstan, China, and Canada vying for the \$225,000 Thies International Riverprize. There are also nominations from Australia competing for the \$75,000 Thies National Riverprize.

While Australia may not yet be experiencing some of the more dramatic and life threatening situations as many river systems overseas, the clock is ticking, particularly in relation to the current drought and low levels in large dams that supply water to major population centres.

The 9th International Riversymposium will be held at Brisbane's Convention & Exhibition Centre from 4 - 7 September as part of the city's annual Riverfestival.

Visit: www.riversymposium.com and www.riverfestival.com.au

Media enquires: Don Alcock, phone 0418 882 063, email: don@keytext.com.au or

Sarah Bartlett, phone 0404 504 258 email: sarah@econnect.com.au

Australia must adapt to climate shift

For a senior Australian scientist selling doom and gloom scenarios on climate change, Bryson Bates is upbeat about how governments and authorities are dealing with the issue. He says climate change is now widely recognised as a force to be reckoned with socially, economically and environmentally.

“In the last three years, Australian water agencies have made big investments in understanding climate change. Governments are lifting their focus beyond economics to plan a future for communities which face change. Western Australia’s government, for example, is to be commended on its long-term approach in dealing with climatic change in the country’s south-west,” he says.

Bryson will outline new ways to detect and model climate change at the International Riversymposium in Brisbane. He says that while changes are likely in Australia’s future climate, an adaptive management approach will help to deal with risk.

“Australians need to be mindful that variability in climate will be superimposed on continued warming and changes in rainfall. This will have a big affect on our rivers and water supply.”

“We cannot afford to wait for full scientific certainty about climate change because that may never come, or simply come too late. We must take action on a balance of evidence approach.”

Bryson says that recent evidence is compelling. “There are well-documented atmospheric circulation changes in mid to high latitudes, most glaciers on the West Antarctic Peninsular are retreating, Arctic sea ice is retreating rapidly, the surface of the Greenland Ice Sheet is melting, and permafrost melting is widespread.”

“In Australia, like many countries, water resources are likely to be further stressed due to projected growth in demand and climate-driven changes in supply for cities, irrigation, industry and environmental flows,” he says.

The Murray Darling Basin is experiencing its driest five-year period on record. It’s one reason why the South Eastern Australian Climate Initiative was established. The goals of the Initiative are to improve our understanding of current and projected climate change and to develop and implement more reliable seasonal forecasting methods. The research will help to inform public policy and decision-making.

“We need to find fair, cost-effective ways to minimise adverse impacts, understanding that the impacts of climate change extend far beyond economic theory and into the web of Australian community life,” says Bryson.

Bryson Bates is Director of CSIRO’s Climate Program and a Senior Principal Research Scientist with CSIRO Land and Water. Ph: 0418 977 028, email: Bryson.Bates@csiro.au

Media enquires: Don Alcock, phone 0418 882 063 email: don@keytext.com.au or

Sarah Bartlett, phone 0404 504 258 email: sarah@econnect.com.au

Program

9th International Riversymposium

4th - 7th September 2006

Monday 4th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
09.30	Mr	David	Grey	Senior Water Advisor	World Bank	1A Plenary	PTR		none	dgrey@worldbank.org
10.00	Mr	Fred	Pearce	Author	N/A	1A Plenary	PTR	When the Rivers Run Dry	none	PEARCEFRED@compuserve.com ; ngoss@randomhouse.com.au
11.00	Mr	Craig	Berry	Senior Engineer	GHD Pty Ltd	1B.1	P1	Making Space of Water - Developing Flood Risk Management Strategies	07 3316 3000	craig.berry@ghd.com.au
11.00	Prof	Wayne	Erskine	Professor of Natural Resource Management	University of Newcastle - Ourimbah Campus	1B.1	P1	Classification of Australian Tropical Rivers to Predict Climate Change Impacts	02 43484152; 02 43627407 (a/h); 0400 350128	Wayne.Erskine@newcastle.edu.au
11.00	Dr.	Shadananan	Nair	Research Scientist	Cochin University of Science & Technology	1B.1	P1	Integrated River Management in India – Challenges in Changing Environments	91 4829 224264; 98478 96200 (mobile)	nair59@yahoo.com
11.00	Ms	Corinne	Brown		Hassall & Associates	1B.1	P1	Impact of regulated flow on the floodplain community- Murrumbidgee River	02-92415655	cbrown@hassall.com.au
11.00	Ms	Angela	Arthington	Water planning academic	Griffith University	1B.2	PTR		07 3735 7403	a.arthington@griffith.edu.au ; Amanda.harms@nwc.gov.au ; rivers@qccqld.org.au ;
11.00	Mr	Henry	Boer		QCC	1B.2	PTR		07 3221 0188	Amanda.harms@nwc.gov.au ; b4c@belimbacreek.org.au ;
11.00	Mr	Wayne	Cameron		B4C	1B.2	PTR		07 3420 4800; 0413 476 736	Amanda.harms@nwc.gov.au ; pricklfm@bigpond.com ;
11.00	Mr	Geoff	Cavener	Irrigator		1B.2	PTR		07 4982 3523; 0409 724475	Amanda.harms@nwc.gov.au ; Greg.claydon@nrm.qld.gov.au ;
11.00	Mr	Greg	Claydon	GM	Water Planning, NRM&W - Brisbane	1B.2	PTR		07 3224 2418	Amanda.harms@nwc.gov.au
11.00	Prof	Peter	Cullen	NWC Commissioner	National Water Commission	1B.2	PTR		02 6102 6063 (Amanda Harms)	c/o Amanda.harms@nwc.gov.au
11.00	Mr	Ken	Matthews		National Water Commission	1B.2	PTR		02 6102 6063 (Amanda Harms)	ken.matthews@nwc.gov.au ; groads@wrwater.com.au ;
11.00	Mr	Greg	Roads	Director	WRM Water Environment	1B.2	PTR		07 3367 1279	Amanda.harms@nwc.gov.au
11.00	Mr	Jeff	Camkin	Sustainability Specialist	CSIRO	1B.3	M1	The future of Northern Australia: the Northern Australia Irrigation Futures project	08 9333 6398; 08 9305 3565 (a/h); 0409 082 341	Jeff.Camkin@csiro.au
11.00	Ms	Larissa	Cordner	Wild Rivers Campaigner	The Wilderness Society	1B.3	M1	Australia's first Wild Rivers Legislation: Strengths, Weaknesses and Achievements	07-3846 1420; 0433 681445	wild.rivers@wilderness.org.au
11.00	Mr	Michael	Douglas	Theme Leader, Aquatic Ecosystems & Water Resources	Charles Darwin University	1B.3	M1	On track for better river and coastal management in northern Australia: Introducing a new research initiative	08 89 467 261	michael.douglas@cdu.edu.au
11.00	Mr	Brendan	Edgar	Program Coordinator	Land & Water Australia	1B.3	M1		0419 781 676	brendan.edgar@lwa.gov.au
11.00	Mr	Bart	Kellett	PhD Candidate	CSIRO Land and Water, The University of Melbourne	1B.3	M1	Irrigation Planning for Social-Ecological Resilience: Opportunities for Frontier Communities in Northern Australia	07 4753 8608	bart.kellett@csiro.au
11.00	Mr	Jim	Donaldson	Manager Landscapes	Land & Water Australia	1B.3	M1		none	
11.00	Mr	John	Amprimo	Director, Water Monitoring and Information	Department of Natural Resources Mines and Water	1B.4	P2	Preserving Queensland's wild rivers	07-3224 7668	John.Amprimo@nrm.qld.gov.au
11.00	Mr.	John	Ching	Water Resource Engineer	Ontario Power Generation Inc.	1B.4	P2	Lake Ontario Regulation Plan C: Local-Basin Approach	(416) 5923735; (416) 6898566 (mobile)	j.ching@opg.com
11.00	Ms	Susan	Lee	PhD student	Flinders University	1B.4	P2	Managing farm dams using low-flow bypasses to improve stream health	08 8201 3560; 0416 244 347	susan.lee@flinders.edu.au
11.00	Mr	Wietsche	Roets	Aquatic Scientist	Western Cape Nature Conservation Board	1B.4	P2	Groundwater Discharges to Aquatic Ecosystems associated with the Table Mountain Group Aquifer in South Africa	27 44-8025328; 27 82-4140064 (mobile)	wroets@pgwc.gov.za
11.00	Ms	Melanie	Cox	Student	Coastal Zone CRC	1B.5	M2	Healthy coasts, happy people – How waterway management improves our well-being	07 32247792	melanie.cox@nrm.qld.gov.au
11.00	Prof	Igor	Hadjamberdiev	Deputy-director	Central Asia network "Water and Pollution"	1B.5	M2	Water-dependent epidemic diseases in central Asia (CA)	996 312 621487 (work)	igorho@mail.ru
11.00	Prof	Hiroyuki	Ii	Professor	Wakayama University	1B.5	M2	Oligotrophic water caused by excessive litter accumulation in western Japan	81-73-457-8376; 81-73-427-1384 (a/h); 81-9016745590 (mobile)	hiro@sys.wakayama-u.ac.jp

Monday 4th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
11.00	Mr	Andrew	Watkinson	PhD Student	CRC for Water Quality and Treatment	1B.5	M2	Assessing the fate and effects of antibiotics in the aquatic environment	07 3274 9004; 0423 777 176	a.watkinson@uq.edu.au
11.00	Dr	Zaheer	Khan	Assistant Professor - Zoology Coordinator for International Environmental Conventions and Agreements	University of Karachi	1B.6	P3	Current Status and Biodiversity of Indus Dolphin and Indus Delta Wetlands (Ramsar Sites)	92-21 4409336; 92-21 0300 285 9842 (mobile)	zaheerk2k@yahoo.com
11.00	Engr	Ivan	Koubek		State Nature Conservancy of the Slovak Republic	1B.6	P3	Management of Wetlands -Changes and Challenges	421-48-47 136 24; 421-48-4101075 (a/h); 421-904405321 (mobile)	koubek@soprs.sk
11.00	Mr	Jim	McKnoulty	President	Australian Green Development Forum	1B.6	P3	Rehab, revege, rethink - a new model for catchment rehabilitation	07 3846 5499; 0413 765 070	cherisew@aqdf.org.au
11.00	Mr	Jeff	Jansson	Lake Macquarie & Catchment Coordinator	Macquarie & Catchment Coordinator	1B.6	P3	Monitoring Wetland Changes and Developing Strategies for Protection/Compensation	(02)4921 0230; (02) 4959 1377 (a/h); 0418 210873	jjansson@lakemac.nsw.gov.au
14.00	Ms	Joanne	Caminiti	Senior Partnership Development Coordinator	West Gippsland Catchment Management Authority	1C.1	P1	Climate Change Impacts and Adaptations in Gippsland - A Regional Approach	03 5175 7800; 03 5147 1065 (a/h); 0417 324 987	joannec@wgqma.vic.gov.au
14.00	Dr	Jane	Doolan	Executive Director	Department of Sustainability & Environment	1C.1	P1	Planning for River Health - considering climate change ir environmental water allocation and management	03 9637 9971	jane.doolan@dse.vic.gov.au
14.00	Mr	David	Webb	Regional Principal Ecologist	Environment Agency	1C.1	P1	London River Restoration: Establishing Ecological Resilience and Community Benefit.	44 (0) 1256 764049; 44 (0) 7770 793894 (a/h); 44 (0)454301 (mobile)	david.webb@environment-agency.gov.uk
14.00	Engr	Ibraheem Alabi	Olomoda	Hydrologist/Water resources development engineer	Niger Basin Authority	1C.1	P1	Impact of climatic change on the River Niger hydrology	00227 733239; 00227 766313 (a/h); 00227 592143	Olomoda@abn.ne
14.00	Mr	Matt	Plaiستowe	Environment and Rural Development Task Force	AusAid	1C.2	PTR	Introduction to the Australia-China Development Program	+86 135 110 22446	robert_a_speed@yahoo.com.au
14.00	Dr	Dajun	Shen	Chinese Team Leader	Water Entitlements and Trading Project	1C.2	PTR	Overview of water resources and water management issues in China	+86 135 110 22446	robert_a_speed@yahoo.com.au
14.00	Mr	Robert	Speed	Australian Team Leader	Water Entitlements and Trading Project	1C.2	PTR	The WET project and the development of water rights and trading in China	+86 135 110 22446	robert_a_speed@yahoo.com.au
14.00	Ms	Qiuchi	Shi	Division Chief, Department of Water Resources Management	Ministry of Water Resources	1C.2	PTR	Water resources protection in China	+86 135 110 22446	robert_a_speed@yahoo.com.au
14.00	Dr	Stuart	Blanch	Manager Freshwater	WWF-Australia	1C.3	M1	Towards a new vision for Australia's tropical rivers at risk	08 89417554; 0427 957 868	sblanch@wwf.org.au
14.00	Dr	Henrique	Chaves	Professor	University of Brasilia	1C.3	M1	Integrating Basin Hydrology, Environment, Life, and Policy: The Watershed Sustainability Index	(5561) 3307-1433; (5561) 9982-3019 (mobile)	hlchaves@terra.com.br
14.00	Mr	Joe	Morrison	Executive Officer	North Australian Indigenous Land & Sea Management Alliance (NAILSMA)	1C.3	M1		(08) 89466702	joe.morrison@cdu.edu.au
14.00	Ms	Patricia	Bowen	Student	University of Canberra	1C.4	M2	Modelling macrophyte organic matter inputs to rivers under different flows	02-6058 2300	Trish.Bowen@csiro.au ; TrishBowen7@hotmail.com
14.00	Ms	Tamara	Boyd	Statewide Water Management Officer	Parks Victoria	1C.4	M2	Regulating water on the floodplain at Murray Sunset National Park	03-86274861	tboyd@parks.vic.gov.au
14.00	Mr	Leo	Lymburner	Riparian Scientist	James Cook University	1C.4	M2	A method for identifying likely sites for denitrification in large semi-arid catchments.	67-7-4781 6737 (work)	leo.lymburner@jcu.edu.au
14.00	Mr	Meng	Tek	Lecturer and Researcher	Royal Academy of Cambodia(RAC)	1C.4	M2	The challenge of the Mekong River Basin Development	855 23890167; 855 12505460 (mobile)	mengtiric@yahoo.com
14.00	Ms	Natalie	Jeremijenko	Assistant Professor	University of California, San Diego	1C.5	P2	Beyond Community Monitoring, Toward Community Reengineering: New Technological Interfaces for Community/River Interaction.	1.858.822.4608; 1.917.443.2179 (mobile)	njeremijenko@ucsd.edu
14.00	Dr	Nick	Marsh	Chief Scientist	Queensland Environmental Protection Agency	1C.5	P2	Creating a natural resource management legacy from a short-term science program.	07 38969213; 0421 616087	nick.marsh@epa.qld.gov.au
14.00	Mr.	Patrick	Seeb	Executive Director	Saint Paul Riverfront Corporation	1C.5	P2	Building a Network of River Communities: Lessons Learned Through Grand Excursion 2004	651.293.6861; 651.2602419 (a/h)	seeb@riverfrontcorporation.com
14.00	Mrs	Wendy	Yorke	Communications Manager	Department of Environment	1C.5	P2	A Caring Community - Western Australia's Swan-Canning Cleanup Program	08 9278 0916; 0419 484 766	wendy.yorke@dec.wa.gov.au
14.00	Mr.	Robert	Apunyo	Research Assistant	Makerere Institute of Social Research	1C.6	P3	Managing wetlands with changing times - Uganda's experience	256 712855013 (work)	rapuny@yahoo.co.uk

Monday 4th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
14.00	Ms	Gayle	Stewart	Assistant Director, Wetlands Policy Unit	Department of the Environment and Heritage Institute of melioration of National Academy of Science of Belarus	1C.6	P3	Australia's Ramar Wetlands - preventing change in a time of change	02 62741420; 0418429491	gayle.stewart@deh.gov.au
14.00	Dr	Nikolaj	Vakhonin	Vice director	Herbert River Catchment Group	1C.6	P3	Influence of agricultural reclamation of wetlands on rivers and its catchments.	375-17-2924824; 375-29-6974820 (mobile)	nik.vahonin@mail.ru
14.00	Mr	Vincenzo	Vitale	Chairman	(ERN) the European Rivers Network	1C.6	P3	Loss and degradation of Wetlands due to spread of Hymenachne	07 47772822; 0419 771629	vinmon@ozemail.com.au
16.30	Mr	Roberto	Epple	Founder - President		1D Plenary	PTR	Europe's strategies to face climate effects on its main rivers	+33 (0)4 71 05 57 88;	roberto.epple@rivernet.org ; annelise.muller@rivernet.org
17.00	Dr	Jon	Olley	Research Director	CSIRO Land and Water	1D Plenary	PTR	Protecting Morton Bay - how can reduce sediment and nutrient loads by 50%	02-6246 5826	jon.olley@csiro.au
	Mr	Gao	Erkun	Director-General, Department of Water Resources Management	Ministry of Water Resources, People's Republic of China	1D Plenary / H20 Forum / 3B.2	PTR			
16.00 / 1 Mr		Emilio	Gabbrielli	Executive Secretary	Global Water Partnership (GWP)	3B.2 (chair)	PTR	Taking bold steps for a better water future	+46 8 562 51 900/922	Emilio.Gabbrielli@gwpforum.org ; helena.albinzon@gwpforum.org

9th International Riversymposium

4th - 7th September 2006

Tuesday 5th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
08.30	Mr	Max	Finlayson	Coordinator	International Water Management Institute (IWMI)	2A Plenary	PTR		+94-11-2787404 extn 1306	m.finlayson@cgiar.org
09.00	Dr	Henrique	Chaves	Professor	University of Brasilia	2A Plenary	PTR	Amazon River	(5561) 3307-1433; (5561) 9982-3019 (mobile)	hlchaves@terra.com.br
09.30 / 18.00	Dr	Caroline	Sullivan	Head of Water Policy and Management	Water Policy and Management Group, Centre for Ecology and Hydrology UK	2A Plenary / H20	PTR	Assessing Human Vulnerability at the Sub-National Scale	+44 1491 838800	csu@ceh.ac.uk
10.30	Mr	Zbyszek	Kundzewicz	Professor	Polish Academy of Sciences	2B.1	PTR		none	zbyszek@pik-potsdam.de
10.30	Mr	Piero	Lionello	Professor	University of Lecce, Italy	2B.1	PTR		none	piero.lionello@pd.infn.it
10.30	Mr	Chris	Milly	Research Hydrologist	United States Geological Survey	2B.1	PTR	Climate Change and Water Availability: The "Big Picture"	609 452-6507; 609 737-9389 (a/h)	Chris.Milly@noaa.gov
10.30	Mr	Max	Finlayson	Coordinator	International Water Management Institute (IWMI)	2B.2	M2	Water for poverty reduction and ecosystems: what are the choices?	+94-11-2787404 extn 1306	m.finlayson@cgiar.org
10.30	Dr	Hugh	Turrall	Theme Leader	International Water Management Institute (IWMI)	2B.2	M2		none	h.turrall@cgiar.org
10.30	Dr	Nicholas	Schofield	Science Manager	Land & Water Australia	2B.3	M1	Reducing pesticide contamination of rivers in cotton growing regions	02 6263 6004; 0408 4111 09	nick.schofield@lwa.gov.au
10.30	Mr	Carl	Glen	Senior Communication Officer	Department of the Premier and Cabinet	2B.3	M1	Rivers to Reef: A cooperative, whole-of-catchment approach to sustainable agriculture for the Great Barrier Reef	07 3234 1387	Carl.Glen@premiers.qld.gov.au
10.30	Prof	Ian	White	Professor of Water Resources	Australian National University	2B.3	M1	Minimising acid discharge into coastal rivers from canelands in NSW	02 6125 0660; 02 6251 3003 (a/h); 0416 248 809	ian.white@anu.edu.au
10.30	Dr	Tim	Wrigley	Senior Manager - Environment and Natural Resources	Canegrowers	2B.3	M1	Water Use in the Queensland Sugar Cane Industry -What's happening!	07 38646444	tim_wrigley@canegrowers.com.au

Tuesday 5th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
10.30	Mr	David	Blake	Technical Advisor, Thailand Demonstration Site	IUCN - The World Conservation Union	2B.4	P3	Tai Baan Research - from Community Awareness to Adaptive Wetland Management	66-42-599 618; 66-9-896 4170 (mobile)	davidblake@iucnt.org
10.30	Prof	Santosh	Ghosh	President	Centre for Built Environment	2B.4	P3	Indigenous and Ecological Development of Wetlands in Kolkata Metropolitan Area	91 33 24761513; 91 33 24615772 (a/h); 91 33 9331040530 (mobile)	sghoshcbe@rediffmail.com
10.30	Mr	Joe	Morrison	Co-Theme Leader	Charles Darwin University & North Australian Indigenous Land & Sea Management Alliance (NAILSMA)	2B.4	P3	Learning from the first people: Indigenous knowledge, management and tropical rivers	(08) 89466702;	joe.morrison@cdu.edu.au
10.30	Mr	Rattaphon	Pitakthepso	Thailand Demonstration Site Co-Manager	IUCN - The World Conservation Union	2B.4	P3		none	rattaphon.mwbp@iucnt.org
10.30	Mr.	Kazi Emran	Bashar	Junior Specialist	Institute of Water Modelling	2B.5	P1	Impact of Sea Level Rise on Salinity of Coastal Area of Bangladesh	(+88-02) 8822105-6, Ext. 131; (+88) 0171-111863 (mobile)	keb@iwmbd.org
10.30	Dr.	Viktoria	Boyko	Head of department	Ukrainian Hydrometeorological Center	2B.5	P1	System of monitoring, forecasting and managements by floods in Ukraine.	38-044-279 18 88; 38-044-5343545 (a/h)	bojko@ukrweather.kiev.ua
10.30	Mr.	Jessie	Felizardo	Engineer	Department of Public Works and Highways	2B.5	P1	Reducing Flood Disasters in the Densely Populated Waterway and Shorelines in Metro Manila	63 26281227; 63 9215502085 (mobile)	jessecf@gmail.com
10.30	Prof	Douglas	Meffert	Deputy Director	Tulane and Xavier Universities	2B.5	P1	Resilience of New Orleans: One Year After Hurricane Katrina	1-504-988-6910; 1-504-324-6408 (a/h); 1-504-319-3438 (mobile)	dmeffert@tulane.edu
10.30	Miss	Jane	Bateson	Team Leader Catchment Strategies	Melbourne Water	2B.6	P2	Sustainable Urban Water Management in the United States, Canada and Australia	03 9235 2546; 03 94849949 (a/h); 0407 822900	jane.bateson@melbournewater.com.au
10.30	Dr	Bob	Johnson	Freelance Philosopher/Artist	Artful Trash Management & RiverCubes Project	2B.6	P2	Artful Trash Management, RiverCubes, & Cultural Contagion	1-412-321 5148; 1-412-302 3700 (mobile)	bob@rivercubes.net
10.30	Mr	Robert	Mezzatesta	Manager	Eco Logical Australia	2B.6	P2	Prioritisation and decision-support for urban stream management	02 85368610	robertm@ecoaus.com.au Tuesday Program

Tuesday 5th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
10.30	Mr	Mark	Macklin		Brisbane Water	2B.6	P2	Brisbane City Council Separate Water Advice	07 3403 3430	Mark.Macklin@brisbane.qld.gov.au
13.30	Mr	Steve	Gillham	Planning Services Manager	Umgeni Water	2C.1	PTR		(033) 341-1576; 083 453 0240 (mobile)	Steve.Gillham@umgeni.co.za
13.30	Prof	Roland E.	Schulze	Professor of Hydrology	School of Bioresources Engineering & Environmental Hydrology	2C.1	PTR	Regional climate change and hydrological impacts in southern African river basins	27-33-2605489 (work)	schulzer@ukzn.ac.za
13.30	Mr	Johnny	Sundstrom	President	Siuslaw Institute	2C.2	M2		1 541 964 5901; 1 541 285 3038 (mobile)	siwash@pioneer.net
13.30	Mr	Tom	Alletson	Waterways and Coast Coordinator	Tweed Shire Council	2C.2	M2	Tweed Shire Council Kenyan Mentoring Program - Three Years of Progress	02 6670 2577; 07 55766132 (a/h); 0406 380 893	talletson@tweed.nsw.gov.au
13.30	Arch.	Amos	Brandeis	General Architect and Manager	Amos Brandeis - Architecture, Urban & Regional Planning Ltd	2C.2	M2	The Dying Lake - Lake Bam Twinning Project	972-9-7446015; 972-9-7446016 (a/h); 972-54-4648956 (mobile)	amos-br@inter.net.il
13.30	Mr	Olita	Ogonjo		Tweed and Kenya Mentoring Program	2C.2	M2	Polluted Nairobi river resuscitation by youth-community through action	254-725393882 (work)	staicythetwo@yahoo.com
13.30	Mr	Peter	Krause			2C.2	M2		none	
13.30	Mr	Wayne	Cameron	Project Manager	B4C	2C.2	M2	Twinning Project – Bulimba Creek Catchment – Thailand - Gulf of Carpentaria.	(07) 3420-4800; 041347 6736	b4c@bulimbacreek.org.au
13.30	Dr	Madhusudai	Bhattarai	Environmental Economist	Mekong Wetland Biodiversity Conservation Programme	2C.3	M1	Economic Assessment of Small-Scale Inland Fisheries and Wetland Livelihoods in Cambodia	856-21-240 904; 856-21-351 622 (a/h); 856-20-5555 385 (mobile)	madhu@mekongwetlands.org
13.30	Mr	Sam	Buchanan	PhD Candidate	The University of New South Wales	2C.3	M1	Wet Roots? - High Resolution Groundwater Mapping For Agricultural And Riverine Management	07 404487207; 0404 487207	samboha66@gmail.com
13.30	Dr.	Chun	Fu	Teacher	Nanchang University, P.R.China	2C.3	M1	Comprehensive development of water and soil resources in PoYang Lake floodplain	86-0791-8304401; 86-13970008181 (mobile)	ccfu@ncu.edu.cn
13.30	Dr	Cuan	Petheram	Hydrologist	CSIRO	2C.3	M1	Towards an understanding of the climatic and hydrological links of Northern Australia	07 47538626	cuan.petheram@csiro.au Tuesday Program

Tuesday 5th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
13.30	Prof / Dr	Muhammed	Bhuiyan	Professor	Bangladesh Uni. of Engg & Technology (BUET)	2C.4	P1	Long-Term Flood Forecasting Model for Brahmaputra-Jamuna River using ENSO	880 2 9665631; 880 2 9677508 (a/h)	mbhuiyan@wre.buet.ac.bd
13.30	Mr	Tadeusz	Malkiewicz	Deputy Chief Engineer	Department of Water Affairs and Forestry	2C.4	P1	Natural disasters / tsunamis in view of the climate change and expanding populations	271 23368608; 278 28049978 (mobile)	pau@dwaf.gov.za
13.30	Mr	Simon	Levin Mugabi	Programs Officer	Citizens For A Better Environment (CIBE - Uganda)	2C.4	P1	Persistent Natural Calamities Hinders Human Development; Uganda's Experience.	256-71-674909	mugabisl@yahoo.com
13.30	Mr	Vijay	Singhal	Collector	Jalgaon Collector office	2C.4	P1	River Management and Planning For Tsunami And Natural Disasters	none	isdr@hotmail.com
13.30	Ms	Juliet	Abuiin	Environmentalist	Forum for Environmental Communicators	2C.5	P2	Integrated Approaches to Water Reform (comparative law perspective)	0947 2086	julietabuiin@yahoo.com
13.30	Prof	Jeff	Bennett	Professor of Environmental Management	Australian National University	2C.5	P2	The Value of Improved Environmental Health in Victorian Rivers	02 61250154; 0419 232250	jeff.bennett@anu.edu.au
13.30	Dr	Stuart	Blanch	Manager Freshwater	WWF-Australia	2C.5	P2	Protecting high conservation value aquatic ecosystems in Australia - a way forward	08 89417554; 0427 957 868	sblanch@wwf.org.au
13.30	Dr	Colin	Chartres	Science Advisor	National Water Commission	2C.5	P2	A Water Resources Assessment to underpin the National Water Initiative	02 6102 6043; 02 6254 0514 (a/h); 0434 076 583	colin.chartres@nwc.gov.au
15.30	Mr	Holger	Hoff	Project Coordinator	Stockholm Environment Institute	2D.1	PTR		+46 8 4121431	hhoff@rz.uni-potsdam.de
15.30	Mr	Andy	Pitman		GEWEX project & Macquarie University	2D.1	PTR		none	
15.30	Mr	Henk van	Schaik	Program Coordinator	CPWC, Netherlands	2D.1	PTR		+31 15 2151882; '+31 15 2121676 (mobile)	h.vanschaik@unesco-ihe.org
15.30	Dr	Bryson	Bates	Climate	CSIRO	2D.1	PTR		02 6246 4569; 0418 977 028	Bryson.Bates@csiro.au
15.30	Mr	Bob	Douglas		MDBC	2D.1	PTR		none	bob.douglas@mdbc.gov.au
15.30	Mr	Bruce	Rhodes		Melbourne Water	2D.1	PTR	Climate Change and Melbourne's Water Resources	03 9235 2148	bruce.rhodes@melbournewater.com.au

Tuesday 5th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
15.30	Mr	Nicolas	Barraud	PhD candidate	Environmental Biotechnology CRC - University of New South Wales	2D.2	M2	Nitric oxide-mediated dispersal in bacterial biofilms	02-93858285; 0425 274037	nicolas.barraud@student.unsw.edu.au
15.30	Dr	Prasanthi	Hagare	Senior Lecturer	University of Technology, Sydney	2D.2	M2	Selection of on-site waste management systems to remove synthetic organics	02-9514 1952; 02-9528 6336 (a/h)	Prasanthi.Hagare@uts.edu.au
15.30	Dr	Abdullah	Mamun	Assistant Professor	International Islamic University Malaysia	2D.2	M2	Impact of sillage and diffusion pollution loading on the health of the river system in Malaysia	+6 03 61965760; '+6 012 3650516 (mobile)	mamun@iiu.edu.my
15.30	Prof	Md. Hamidu Rahman		Professor	University of Rajshahi, Rajshahi, Bangladesh	2D.2	M2	Immediate Steps to Save the Buriganga and other Rivers surrounded Dhaka City the Capital of Bangladesh	+880-750041/Ext 4111; 880-721-774243 (a/h); 880-175-076636 (mobile)	mhrahman@librabd.net
15.30	Mr	Joel	Stewart	Engineering Hydrologist	Queensland Department of Natural Resources, Mines and Water	2D.2	M2	Source tracking of faecal indicators in non-sewered catchments	(07) 38969632	joel.stewart@nrm.qld.gov.au
15.30	Dr	Masanobu	Taniguchi	Assistant	Wakayama University	2D.2	M2	The estimation of pollutant loads in the Kinokawa River, Japan	81-073-457-8364; 81- 073-483-8192 (a/h)	masa@sys.wakayama-u.ac.jp
15.30	Prof	Wayne	Erskine	Professor of Natural Resource Management	University of Newcastle - Ourimbah Campus	2D.3	M1	Role of Stock-Proof fencing in assisting regeneration of Casuarina cunninghamiana	02 43484152; 02 43627407 (a/h); 0400 350128	Wayne.Erskine@newcastle.edu.au
15.30	Mr	Daniel	Lucey	Waterwatch Cordinator	Condamine Balonne Water Committee Inc	2D.3	M1	Pesticides- When some is too much	0412 870017	djlucey@hotmail.com
15.30	Dr.	Vladimir	Matychenko	Senior Scientific Officer	Institute Basic Biological Problems Russian Academy of Sciences	2D.3	M1	River basin protection against organic agricultural waste	(0967)790532 (work)	vvmatichenkov@rambler.ru
15.30	Mr.	Bipin	Pathak	Research fellow	Civic water research institue	2D.3	M1	Nitrogen contribution to the river basin from the tropical paddy field	977-1428-2572 (work)	bipinpathak@yahoo.com
15.30	Ms	Jacqueline	Watt	Ph.D Candidate	Charles Sturt University	2D.3	M1	Do Surface-Ground Water Interactions Matter in Integrated Water Resource Management?	02 69334391; 0402 090 974	jawatt@csu.edu.au

Tuesday 5th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
15.30	Mr	Andrew	Roy	Environmental Engineer	GHD	2D.4	P2	Physical habitat simulation predicts good news for Pretty Valley aquatic biota	03-51365833; 0422 968 405	dan.borg@ghd.com.au
15.30	Ms	Tanya	Doody	Experimental Scientist	CSIRO - ensis	2D.4	P2	Quantifying water saving from willow removal in creeks in south central NSW	08 87218114; 08 87251258 (a/h); 0419 848821 (07)37355175;	tanya.doody@csiro.au
15.30	Dr	Hossein	Ghadiri	Senior Lecturer	Griffith University	2D.4	P2	Salinisation and pollution of Karun river in Iran	(07)38783667 (a/h); 0419 787042	H.Ghadiri@griffith.edu.au
15.30	Mr	Michael	Longhurst	Catchment Officer	Central West Catchment Management Authority (NSW)	2D.4	P2	Trading Environmental Energy for Environmental Services and Flows	02 6881 3407; 02 6885 0104 (a/h); 0419 479744	Michael.Longhurst@cma.nsw.gov.au
15.30	Mr.	John	Nolan	Sector Leader - Environment	Hyder Consulting Pty Lts	2D.4	P2	Environmental Audit of the Goulburn River - Key Learnings	03 8623 4123; 0419 345 417	john.nolan@hyder.com.au
15.30	Ms	Rachel	Eberhard	Principal Consultant	Eberhard Consulting	2D.5	P1	Great Barrier Reef Water Quality Partnership	07 3844 9656; 0432 683 598	rachel@eberhardconsulting.com.au
15.30	Mr	John	Gollan	PhD student	Australian Museum and University of New England	2D.5	P1	Community-friendly methods for monitoring riverside rehabilitation: a case study	02 9320 6478; 02 42259 889 (a/h); 0407 229238	johnng@austmus.gov.au
15.30	Ms	Juliet	Abuiin	Environmentalist	Forum for Environmental Communicators	2D.5	P1	Shoreline Management Units for the Restoration of River Mpologoma	0947 2086	julietabuiin@yahoo.com
15.30	Mr	Vidyanand	Ranade	Chairman	Upper Bhima Water Partnership	2D.5	P1	Mini-watershed development for well-being of community, through improved water management.	+91 20 24336076; 91 9822792798 (mobile)	vranade2003@yahoo.com
15.30	Mr	Martin	Revell	Program Manager	Department of Water	2D.5	P1	The Story of a Back-to-Front River	08 9622 7055; 08 9295 3272 (a/h)	martin.revell@water.wa.gov.au
15.30	Ms	Chantelle	Noack	Project Delivery Manager	Avon Catchment Council	2D.5	P1	The Story of a Back-to-Front River	08 9690 2295; 0428 927 052	CNoack@agric.wa.gov.au
15.30	Mr	Jason	Vains	Project Manager	Great Barrier Reef Marine Park authority	2D.5	P1	"Reef Guardian Councils": Empowering Local Governments and their Communities	07 4875 0856	J.Vains@gbmpa.gov.au
15.30	Mr	Mark	Hamstead	Principal	Hamstead Consulting Pty Ltd	2D.6	P3	Using agricultural water for urban growth in Australia - opportunities, issues	0247391585 (a/h); 0438 006290	markhamstead@netspace.net.au

Tuesday 5th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
15.30	Ms	Danielle	Hardie	Project Manager (CFEV Project)	Department of Primary Industries, Water and Environment	2D.6	P3	Identifying and prioritising freshwater ecosystem values in Tasmania, Australia	03 6233 2627; 03 62783835 (a/h); 0428 379840	Danielle.Hardie@dpiwe.tas.gov.au
15.30	Dr	Nicholas	Schofield	Science Manager	Land & Water Australia	2D.6	P3	Does investing in water research make a difference ?	02 6263 6004; 0408 4111 09	nick.schofield@lwa.gov.au

9th International Riversymposium

4th - 7th September 2006

Wednesday 6th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
09.30	Mr	Tomonori	Osugi	Principal Researcher	Japan Water Resources Environment Technology Center (Foundation)	3A	PTR	Ecological Research for the Management of Japanese Rivers and Reservoirs	81-3-3263-9952	t-osugi@wec.or.jp
09.30	Mr	Sin-ichiro	Tate	Research Fellow	Foundation for Riverfront Improvement and Restoration	3A	PTR		none	tate@rfc.or.jp
08.30	Ms	Blaise-Leandre	Tondo	Senior Expert	Congo-Oubangui-Sangha International Commission (CICOS)	3A Plenary	PTR	Navigation and Hydropower on the Congo River	+243 8116 46422	bintam@yahoo.com
10.30	Mr	Robert	Carr	Managing Director	DHI Water & Environment	3B.1	PTR		02 8440 5700; 0412 115359	rsc@dhiaust.com
10.30	Mr	Henrik	Larsen		DHI Water & Environment	3B.1	PTR		none	hel@dhigroup.com
10.30	Mr	Børge	Storm		DHI Water & Environment	3B.1	PTR		none	brs@dhigroup.com
10.30	Mr	Bruce	Hooper		DHI Water & Environment	3B.1	PTR	Modeling, participation and information exchange for improved basin governance	none	bph@dhigroup.com
10.30	Mr	Emilio	Gabbrielli	Executive Secretary	Global Water Partnership (GWP)	3B.2	P2	Taking bold steps for a better water future	+46 8 562 51 900/922	Emilio.Gabbrielli@gwpforum.org ; helena.albinzon@gwpforum.org
10.30	Ms	Beris	Gwynne	Adviser, Fund-raising and Program Support	Global Water Partnership (GWP), Sweden	3B.2	P2		none	Beris.Gwynne@gwpforum.org
10.30		Mai	Flor		Global Water Partnership (GWP), Phillipines	3B.2	P2		none	maiflor@info.com.ph

Wednesday 6th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
10.30	Ms	Liu	Xiaolan		Global Water Partnership (GWP), PDR China	3B.2	P2		none	xyliu@yellowriver.gov.cn
10.30		Aniruddhe	Mukerjee		Global Water Partnership (GWP), India	3B.2	P2		none	aniruddhem@rediffmail.com
10.30		Jasveen	Jairath		Global Water Partnership (GWP), India	3B.2	P2		none	capnet_southasia@spdindia.org
10.30	Mrs	Nomusa	Mhlanga	Lecturer	National University of Science and Technology	3B.4	M2	Urban Wastewater Flows Affect Water Supplies and Community Livelihoods	263-11-877782	nmhlanga@nust.ac.zw ; nomusa2006@yahoo.com
10.30	Dr	Sergey	Popov	Executive Director	Centre for the Ecologic Adversity Counteraction	3B.4	M2	Water-borne diseases in the Voronezh River Basin	+7 4732 527652	sergey_popov@rambler.ru
10.30	Dr	David	Roser	Senior Research Associate	University of NSW	3B.4	M2	Estimating NPS Contaminant Loads using Faecal Sterols, Indicators and Hydrology	02 9385 5137; 02 9569 8130 (a/h); 0409 076 961	djroser@civeng.unsw.edu.au
10.30	Maste	Yoshikazu	Iwane	Student	Wakayama University	3B.4	M2	Relation between nutrient, phytoplankton and flow in central Japan	81-90-1674-5590	hiro@sys.wakayama-u.ac.jp
10.30	Dr	Siwan	Lovett	Program Coordinator	Land & Water Australia	3B.5	P1	People, passion and place: broadening our ideas about river 'knowledge'	02 6247 7997; 0422 939 583	siwan@webone.com.au
10.30	Dr.	Ashutosh	Sarker	Postdoctoral Fellow	University of Queensland	3B.5	P1	Managing Water Quality through Common Property, Market and Non-Market Based Instruments in South-East Queensland, Australia	07 5460 1053; 0413 821 146	a.sarker@uq.edu.au
10.30	Prof	Indah	Susilowati	Lecturer and researcher	Diponegoro University	3B.5	P1	Managing River without Management?: the experience of Banjir Kanal Barat River, Semarang - INDONESIA	62 8122866649	indah-susilowati@rocketmail.com

Wednesday 6th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
10.30	Mr	Stephen	Wilke	Senior Environmental Scientist	Water Corporation of Western Australia	3B.5	P1	The Harvey River Restoration Taskforce: a Novel Community-based Management Scheme	08 9420 3042; 0419 049 509	steve.wilke@watercorporation.com.au
10.30	Prof	Helen	Ross	Professor of Rural Community Development	University of Queensland	3B.6	P3	Conceptual framework for catchment-scale integrated water resource management	07-54601648; 0408 195324	hross@uqg.uq.edu.au
10.30	Ms	Claudia	Baldwin	Phd Candidate and consultant	University of Queensland	3B.6	P3	Stakeholder perceptions of water reform in two catchments, Queensland Australia	07 3379 2060	claudiab@bigpond.net.au
10.30	Mr	James	Hill	Policy Adviser	Department of Agriculture, Fisheries and Forestry	3B.6	P3	Research into access to recycled water and impediments to investment	none	James.Hill@affa.gov.au
10.30	Mr	Suresh	Sodal	Secretary	Maharashtra Water Resources Regulatory Authority	3B.6	P3	Reforms in Water Resources Sector in Maharashtra State - India	91 9819710349	Sureshsodal@rediffmail.com
13.30	Dr	Bryson	Bates	Director, CSIRO Climate	CSIRO	3C.1	P1	SEACI - Informing water resource management in the Murray-Darling Basin	02 6246 4569; 0418 977 028	Bryson.Bates@csiro.au
13.30	Prof	John	Quiggin	Federation Fellow	University of Queensland	3C.1	P1	Responding to climate change in the Murray Darling Basin	07 33469646	j.quiggin@uq.edu.au
13.30	Mr	Greg	Williams	Environmental Water Reserve Officer	Corangamite Catchment Management Authority	3C.1	P1	The Gellibrand River: balancing environmental and urban water demand in a climate of change	03 5232 9130; 0429 808 908	greg.williams@ccma.vic.gov.au
13.30	Dr.	Edward	McBean	Professor of Engineering	University of Guelph	3C.1	P1	Impact of Climate Change and Drought on Water Resources – With the Case Studies on Lakes and Rivers of Iran	none	emcbean@uoguelph.ca
13.30	Mr	Maturo	Paniani	National Coordinator	Ministry of Natural Resources, Environment and Meteorology	3C.2	P3	Rivers in Samoa	07 6852 5422	maturo_p@yahoo.com

Wednesday 6th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
13.30	Ms	Bronwyn	Powell	Executive Manager	International WaterCentre	3C.2	P3	Interdisciplinary approaches to catchment risk management: a case study of East Timor	07 3221 1772; 0418 490 198	b.powell@watercentre.org
13.30	Dr	Teodor Lucian	Constantine	Office	National Administration "Romanian Waters"	3C.3	P2	Water Quality of Danube River and his impact on Danube Delta and Black Sea	40 - 722738677 02 4960 5030;	Teodor.constantinescu@rowater.ro
13.30	Mr	Eddie	Harris	Project Leader	Department of Natural Resources	3C.3	P2	Macro approach for water sharing in unregulated rivers	02 49610353 (a/h)	eddie.harris@dnr.nsw.gov.au
13.30	Prof	Hui-Ling	Tung	Assistant Professor	School of Management, Da-Yeh University	3C.3	P2	The Dynamic Response of Ecosystems to Human Use	0928-362469	huling7@mail.dyu.edu.tw
13.30	Mr	Carl	Binning	CEO	Greening Australia	3C.4	M2	River Recovery: Investing in our natural infrastructure to address climate change.	02 6281 8585	ksampson@greeningaustralia.org.au
13.30	Mrs	Yulia	Salmina	Vice-President	Novosibirsk Regional Social Committee for Water Protection	3C.4	M2	We showed our enthusiasm! It's Your Turn, Russian Government!	7-9232429867	ysalmina@yandex.ru
13.30	Mr	Kashinath	Vajpai	Senior Research Manager	TNS-India	3C.4	M2	Role of civil society organisations in Managing River-Ganga	91-9871547211	knvajpai@rediffmail.com ; Kashinath.Vajpai@tns-global.com
13.30	Dr.	Elena	Bocharnikov	Senior Scientific Officer	Chemical Physical and Biological Problems of Soil Science Russian Academy of Sciences	3C.5	M1	Technology for reduction of the phosphorus leaching and optimization of the plant P nutrition in the river basin	(0967)731896	mwk@rambler.ru
13.30	Mr	William	Higham	Program Manager	Mackay Whitsunday Nautral Resource Management Group	3C.5	M1	Mackay Whitsunday Sustainable Landscapes Program - A novel approach to delivering Natural Resource Management	(07) 49 535 285; 0437640186	will@mwnrm.org.au

Wednesday 6th September

Time	Title	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
13.30	Dr	Mac	Kirby	Research Scientist	CSIRO Land and Water	3C.5	M1	Water use account spreadsheets with examples of some major river basins	02 62465921; 02 62465921 (a/h); 0427 465921	Mac.Kirby@csiro.au
13.30	Dr.	Ashutosh	Sarker	Postdoctoral Fellow	University of Queensland	3C.5	M1	Managing River Water for Irrigation in Japan	07 5460 1053; 0413 821 146	a.sarker@uq.edu.au
16.00	Mr	Surapol	Pattanee	Director	Bureau of Water Resources Policy and Planning Department of Water Resources	3D Plenary	PTR	Challenges in Managing the Chao Phraya 's Water	+66 2271 6136	surapol2001@hotmail.com ; surapol2001@gmail.com

9th International Riversymposium

4th - 7th September 2006

Thursday 7th September

Time	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
09.00	Arlene	Buchan	Healthy Rivers Campaigner	Australian Conservation Foundation	4A.1	PTR	Climate change, river health and water reform policy in Australia	03-93451124; 0407 883907	a.buchan@acfonline.org.au
09.00	Nasreen	Mohal	Senior Specialist	Institute of Water Modelling (IWM)	4A.1	PTR	Impact of Sea level rise on coastal rivers of Bangladesh	88-02-8824590 (Ext. 121); 88-02-9677508 (a/h)	nam@iwmbd.org
09.00	Priyantha Ranjan	Sarukkalige	Post Doctoral Researcher	Tohoku University	4A.1	PTR	Evaluation of the effects of climate change on coastal groundwater resources	81-22-728-0271; 81-90-3641-1196 (mobile)	ranjan@kaigan.civil.tohoku.ac.jp
09.00	Nelly	Bobrovitskaya	Hydrologist	State Hydrological Institute	4A.1	PTR	Methodology For Determination Of Hydrological Regime Components Affected By Human Activity And Climate Change	7-812-323 12 49; 7-9052744365 (mobile)	lvch@nb1441.spb.edu
09.00	Ruth	Eriksen	Scientific Officer	Department of Primary Industries, Water and Environment	4A.3	M2	Recreational water quality and seafood safety, Derwent Estuary Tasmania	03-62 33 3383; 0429 488 404	Ruth.Eriksen@dpiwe.tas.gov.au
09.00	Hiromi	Kobori	Professor	Musashi Institute of Technology	4A.3	M2	Evaluation of Tokyo Metropolitan Area Waterways Using New Scientific Indicators	81-45910-2562; 81-3-3993-4785 (a/h); 81-090-3504-7918 (mobile)	kobori@yc.musashi-tech.ac.jp
09.00	Stewart	Lockie	Associate Dean (Research)	Central Queensland University	4A.3	M2	A social impact assessment of water flow regimes and water quality in Central Queensland	07 49306539; 07-49383479 (a/h); 0408 306539	s.lockie@cqu.edu.au
09.00	Megha Raj	Regmi	Senior Environmental Engineer	Small Towns Water Supply and Sanitation Project	4A.3	M2	Sustainable Management of Rivers in Nepal for future generations	977 14248957; 977 9841322595 (mobile)	megha_rajregmi@yahoo.com

Thursday 7th September

Time	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
09.00	Chonchinee	Amawatana	PhD Candidate	Queensland University of Technology	4A.4	M1	Environmental performance indicators for the Lower Mekong Subregion development	07-38649183; 0431 072 266	c.amawatana@qut.edu.au
09.00	David	Blake	Technical Advisor, Thailand Demonstration Site	IUCN - The World Conservation Union	4A.4	M1	Songkhram River wetlands - A critical floodplain ecosystem of the Mekong Basin	66-42-599 618; 66-9-896 4170 (mobile)	davidblake@iucnt.org
09.00	Damion	Cavanagh	Associate	WBM Oceanics Australia	4A.4	M1	Managing Water Quality in the Richmond River Estuary, Australia	07 3831 6744	dccavanagh@wbmpl.com.au
09.00	Pisit	Charnsnoh	Director	Yadfon - Thailand	4A.4	M1	Managing Mangroves and Coastal Resources by Fishing Communities in Trang Province – Thailand	07 3420 4800	yadfon@loxinfo.co.th
09.00	Peter	Armstrong	Waterways Education Officer	Maroochy Shire Council	4A.5	P1	Education: It won't just happen, you need to lead by example.	07 5441 8062; 0439 756 721	armstrongp@maroochy.qld.gov.au
09.00	Naomi	Arrowsmith	Regional Manager	Department of Environment	4A.5	P1	Watershed Torbay - Demonstrating Best Practice Community Change in River Restoration	08 - 98410107; 0418 929526	naomi.arrowsmith@environment.wa.gov.au
09.00	Joadie	Hardy	Regional Community Water Quality Monitoring Manager	SEQ Regional Body	4A.5	P1	Communities in Catchments "Changing Attitudes Achieving Results"	07 3816 9717; 0409 006 532	wwatch@seqwgc.com.au
09.00	Dedee	Woodside	Director	Corporate & Community Sustainability International (CCSI)	4A.5	P1	A "values-based" approach to the design and evaluation of community engagement programs	02-9975 5514; 0408 271 685	woodpyke@ozemail.com.au
09.00	Simone	Gunn	Environmental Water Reserve Officer	Corangamite Catchment Management Authority	4A.6	P2	Implications of trading in the flow stressed Moorabool River catchment.	03 5232 9142; 03 5267 2809 (a/h); 0438 501 524	simone.gunn@ccma.vic.gov.au

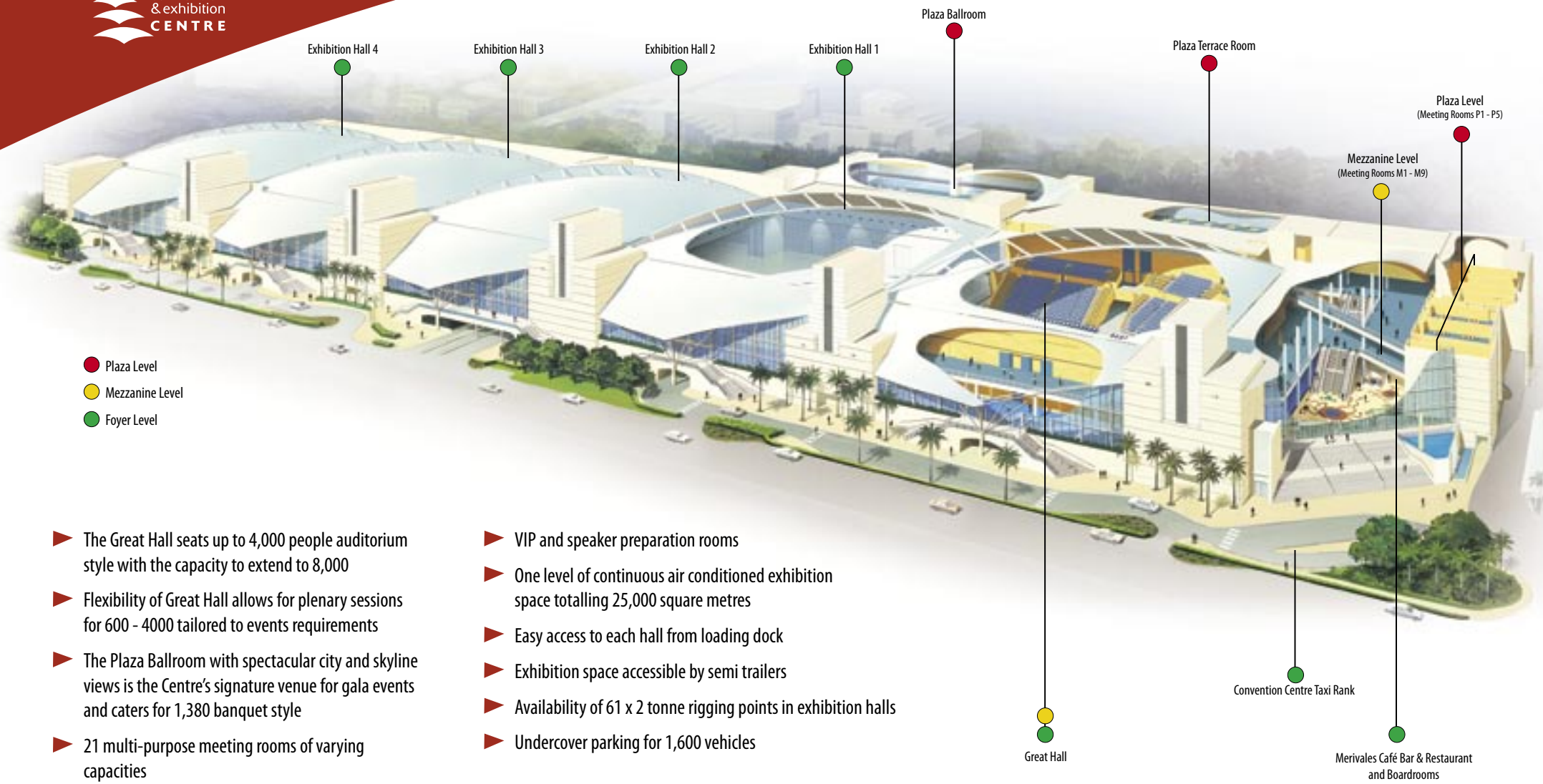
Thursday 7th September

Time	First name	Surname	Job Title	Organisation	Session	Room	Title of paper	Phone	Email
09.00	M. Anowar	Hossain	Associate Programme Officer	ActionAid bangladesh Institute of General Energy of Ukrainian	4A.6	P2	Tipaimukh Dam of India : Probable Disaster for Bangladesh	(880-2)8815991- 2,8815973,9894331	anowar@actionaid-bd.org
09.00	Vladimir	Sizonenko	Senior Researcher	Academy of Sciences	4A.6	P2	Possibilities to control environmental flows in case of emission of contaminations	38-044- 4170142; 38-044- 5290188 (a/h)	jasizyj@yahoo.com

Venue map

Brisbane Convention & Exhibition Centre

Venue Plans



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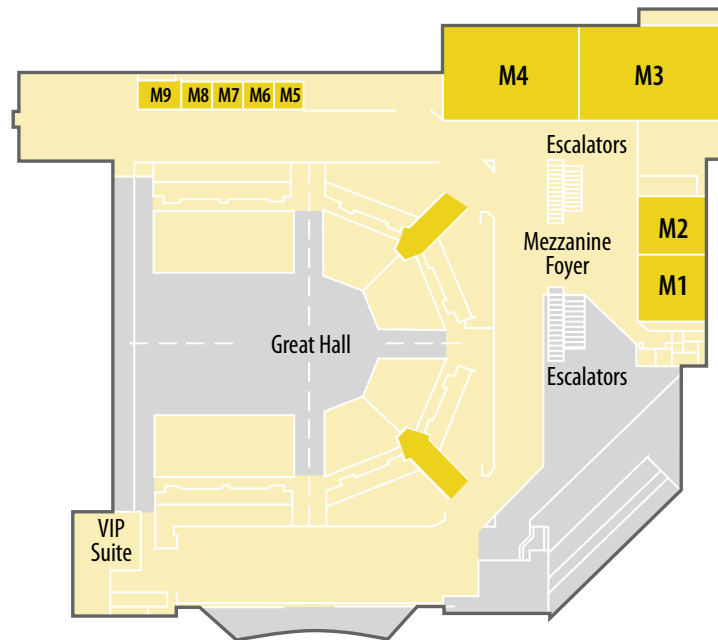
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Brisbane Convention & Exhibition Centre

Mezzanine level



Room	Theatre Maximum Capacity (a)	Classroom Maximum Capacity (a)	Banquet Maximum Capacity (b)	Cocktail Maximum Capacity (b)	U Shape Maximum Capacity	Boardroom	Dimensions		Gross Areas		Ceiling Height m
							length metres	width metres	square metres	square feet	
Meeting Room M1	167	90	90	150	44	36	12.2	12.9	157	1692	3.6
Meeting Room M2	165	90	90	150	44	36	12.2	12.3	149	1604	3.6
Meeting Room M1 & M2	370	210	210	300	89	78	12.2	25.2	306	3296	3.6
Meeting Room M3	560	360	330	500	92	78	25.5	17.9	455	4900	4.3
Meeting Room M4	560	360	320	500	92	78	24.2	17.9	432	4651	4.3
Meeting Room M3 & M4	1104	690	640	1000	152	-	49.7	17.9	887	9551	4.3
Meeting Room M5	24	12	12	24	15	16	50.9	4.7	28	297	3.3
Meeting Room M6	24	12	12	24	15	16	5.8	4.7	27	295	3.3
Meeting Room M5 & M6	48	36	24	50	33	34	11.7	4.7	55	592	3.3
Meeting Room M7	24	12	12	24	15	16	5.8	4.7	27	295	3.3
Meeting Room M8	24	12	12	24	15	16	5.7	4.7	27	289	3.3
Meeting Room M7 & M8	48	36	24	50	33	34	11.5	4.7	54	584	3.3
Meeting Room M9	45	24	24	45	27	22	8.4	5.3	44	475	3.3

Note: Great Hall is accessible on Mezzanine level