



Express your  
interest for the  
34th IAHR at  
[www.iahr2011.org](http://www.iahr2011.org)

IAHR

34<sup>th</sup> Congress 2011  
Brisbane Australia\*

CALL FOR ABSTRACTS

## VENUE AND BRISBANE CITY

The Congress will be held at the Brisbane Convention and Exhibition Centre (BCEC) which is located in the stunning Southbank Parklands precinct on the banks of the Brisbane River. All congress sessions and events will be held at BCEC, which is just a short walk from the central business district and Brisbane's impressive cultural precinct.

Brisbane is the capital of the state of Queensland and in the heart of Australia's premier tourist region. Brisbane is Australia's fastest growing city and is rated the world's sixth best business destination by The Economist Magazine. Brisbane is Australia's only subtropical capital city and has a population of 1.8 million. Brisbane's international airport operates 24/7 and is located 20 minutes from the city. The average temperature in Brisbane during the Congress is a glorious 21 degrees (77 f). With an all year round idyllic climate, Brisbane averages 245 days per year of clear skies and sunshine.

## PRE AND POST CONFERENCE TOURS

You may be interested in a trip to the world-famous Great Barrier Reef or a cruise on Sydney's stunning harbour. Alternatively you may prefer a genuine Outback experience or perhaps a tour of the renowned Kakadu National Park. Pre and post Congress technical tours are also being planned. Likely tour programs include visits to the world famous hydropower sites in Tasmania and the Snowy Mountains as well as major hydropower sites in New Zealand. All tours will be conducted based on demand. Whatever your pre and post touring requirements, please head to the Congress website for more information or visit [www.australia.com](http://www.australia.com).

## ACCOMMODATION

Discounted accommodation rates are being negotiated at a variety of accommodation establishments in Brisbane. Delegates will be able to select a style and price range of accommodation to suit their individual needs and budgets. These accommodation options will be offered via the on-line registration system allowing delegates to easily make their reservations when they complete their Congress registration.

## 34TH IAHR BIENNIAL CONGRESS ORGANISATION

### Chairs

Hubert Chanson, Chair, Executive Steering Committee  
James Ball, Deputy Chair, Executive Steering Committee  
Toby McGrath, Chair, Brisbane Organisation Committee  
Eric Valentine, Chair, Scientific Committee

### Scientific Committee

Colin Apelt	Robert Ettema	Bruce Melville
James Ball	Jorg Imberger	Jane Sargison
Hubert Chanson	George Kuczera	Eric Valentine
Ron Cox	Martin Lambert	

### LINKS

International Association of Hydraulic Engineering and Research (IAHR)

[www.iahr.net](http://www.iahr.net)

National Committee on Water Engineering (NCWE)

[www.engineersaustralia.org.au/ncwe](http://www.engineersaustralia.org.au/ncwe)

### CONTACT DETAILS

Should you require assistance at any time with the Congress, please contact Ashley Gordon at Carillion Conference Management.

Mailing address: 2011 IAHR Congress Office  
PO Box 177  
Red Hill Queensland 4059  
Australia  
Telephone: +61 7 3368 2644  
Email: [info@iahr2011.org](mailto:info@iahr2011.org)



# 34th IAHR BIENNIAL CONGRESS

33rd Hydrology and Water Resources Symposium  
10th Conference on Hydraulics in Water Engineering

## Balance and Uncertainty: Water in a Changing World

Brisbane Convention & Exhibition Centre,  
Brisbane, Australia  
26 June to 1 July 2011



ENGINEERS  
AUSTRALIA

[www.iahr2011.org](http://www.iahr2011.org)

## INVITATION

On behalf of the 34th IAHR Biennial Congress Organisation, IAHR and Engineers Australia, we are delighted to extend our personal invitation to you to join us in Brisbane, Australia for the 34th Biennial Congress of the International Association of Hydraulic Engineering and Research (IAHR). Engineers Australia and its National Committee on Water Engineering (NCWE) are collaborating with IAHR to organize the 34th IAHR Biennial Congress together with the 33rd National Hydrology and Water Resources Symposium and the 10th National Conference on Hydraulics in Water Engineering.

The Congress theme "**Balance and Uncertainty: Water in a Changing World**" focuses on the central roles of hydraulic engineering, hydrology and water resources in our changing world, and how these roles link to the broader issues. A balance is continually being sought between competing values in water engineering, including the environment, the economy, tourism, social and indigenous values, health aspects, aesthetics, and the needs of current and future generations. Careful management and innovative solutions are required to balance these values, and solutions must be able to deal with the uncertainty in the natural world as well as the changing human world.

Brisbane, Australia is an attractive destination - a well-organised modern city, within close proximity to some of the world's greatest natural attractions! We look forward to welcoming you in June 2011 to what we are confident will be the best ever IAHR Biennial Congress.

Professor Nobuyuki Tamai	President of IAHR
Mark Babister	NCWE Chair
Professor Hubert Chanson	34th IAHR Biennial Congress Chair

## KEY DATES

Deadline for Abstracts	July 2010
Notification of Acceptance of Abstracts	September 2010
Deadline for submission of Full Papers	October 2010



## CONGRESS THEMES

### Balance and Uncertainty: Water in a Changing World

#### THEME 1: Extremes and Variability

- 1.1 Floods
- 1.2 Storm surge
- 1.3 Drought
- 1.4 Natural disaster and mitigation
- 1.5 Stochastic hydrology
- 1.6 Adaptation to climate changes and variability

#### THEME 2: Coastal Hydraulics: Form and Function

- 2.1. Advances in wave processes
- 2.2. Coastal processes and morphology
- 2.3. Estuarine processes
- 2.4. Coastal and offshore structures
- 2.5. Tsunamis

#### THEME 3: Understanding and Modelling a Limited Resource

- 3.1 Surface water hydrology
- 3.2 Groundwater hydraulics and hydrology
- 3.3 Lake and reservoir hydraulics
- 3.4 Contaminant transport and interactions
- 3.5 Urban hydrology

#### THEME 4: Managing a Limited Resource

- 4.1 Decision-support systems
- 4.2 Water resources management
- 4.3 Flow conveyance systems
- 4.4 Hydraulic structures and machinery
- 4.5 Urban water cycle management including drainage and stormwater systems
- 4.6 Wastewater treatment

#### THEME 5: Environmental Hydraulics and Hydrology

- 5.1 Ecohydraulics including Low Flows
- 5.2 Ecohydrology
- 5.3 Water quality modelling
- 5.4 Fluvial hydraulics

#### THEME 6: Professional Development: Bridging the Gap between Research and Practice

- 6.1 University education
- 6.2 Professional development
- 6.3 Research into practice
- 6.4 Interactions between hydraulics and hydrology

#### THEME 7: Hydroinformatics

- 7.1 Computational hydraulics and hydrodynamics
- 7.2 Emerging computational methods
- 7.3 Data mining and data-driven modelling
- 7.4 Applications of models and hydroinformatics tools
- 7.5 Cyber infrastructure in water

## KEYNOTE SPEAKERS

The Congress will offer a series of keynote lectures, including the prestigious Crawford Munro oration, Frank Henderson oration and Arthur Ippen lecture on current and emerging issues in water engineering.

## CONGRESS PROCEEDINGS

All papers will be peer reviewed. All accepted and presented papers (both oral and poster) will be published in the full Congress Proceedings.

## TECHNICAL VISITS

The Congress will include half day technical tours that will take you to key locations for water resources and environmental issues facing the big rivers and coastlines of South East Queensland.

## ACCOMPANYING PERSONS PROGRAM

Accompanying persons will be offered a range of interesting activities including tours of Brisbane's historical highlights, the cultural precinct and an opportunity to get close and personal with some of Australia's unique wild life. A tour desk will operate on-site at BCEC during the Congress to assist with tour bookings and visitor arrangements.

## STUDENT PROGRAM

The Congress will include a number of features especially for students including reduced registration fees, special accommodation arrangements, focused scientific and social events, and the J.F. Kennedy award for best student paper.

## CALL FOR ABSTRACTS

You are invited to submit abstracts for consideration by the Congress Scientific Committee. Abstracts must be submitted online - please go to the Congress website and select the "Call for Abstracts" option.

## CALL FOR REVIEWERS

If you are interested in being a reviewer of the technical papers please express your interest at the Congress website.

## CALL FOR WORKSHOPS

An opportunity exists for those interested in presenting workshops, seminars, short courses or Master Classes as part of the Congress. Please express your interest by going to [www.iahr2011.org](http://www.iahr2011.org).

## TRADE EXHIBITION AND SPONSORSHIP

Leading companies and agencies are invited to participate in this exciting event. An extensive range of sponsorship and exhibition options are available. Please contact Carillion Conference Management via email [sponsor@iahr2011.org](mailto:sponsor@iahr2011.org) or telephone 61 7 3368 2644.