



Specialist
Conferences

First Announcement and Call for Papers



10TH IWA CONFERENCE ON
INSTRUMENTATION
CONTROL AND
AUTOMATION
14-17 JUNE 2009
CAIRNS, AUSTRALIA
www.iwa-ica2009.org

Platinum Sponsor

Gold Sponsor



Bronze Sponsor



Co-organisers



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA



Specialist Conference



You are invited to.....

.....**ICA2009.** This is the 10th IWA Conference on Instrumentation, Control and Automation that will provide a forum to exchange methodologies and experience, internationally, on all aspects of ICA for water and wastewater treatment and transport systems.

Advanced control is getting increasingly demanded in water and wastewater systems. ICA, often perceived as a *hidden technology*, is found in nearly all systems related to water supply and wastewater management. For example, it has been demonstrated that ICA is able to increase the capacity of biological nutrient removal wastewater treatment plants by 10-30% today. With further understanding and exploitation of the microbial community involved in wastewater treatment and the biochemical reactions they catalyse, the improvements in treatment efficiency brought by ICA will continue to increase within the next 10-20 years.

The ICA Specialist Group organises quadrennial conferences, with the first back tracked to 1973 in London and Paris and the most recent one in 2005 in Busan, Korea. In recent years, the ICA SG started sponsoring a new series of conferences known as AutMoNet (Automation in Water Quality Monitoring). The most recent event of this series was in Ghent, Belgium, Sept 5-7, 2007. The next major group gathering together will be on June 14-17, 2009 in Cairns, Australia during the 10th IWA Conference on ICA.



The beauty of the region is enticing, the venue exceptional, and the science will be outstanding. I look forward to receiving your full papers and then joining with you in Cairns to uncover our "*Hidden Technology*".

- Prof Zhiguo Yuan
Chair of the Local Organising Committee



Local Organising Committee

Zhiguo Yuan - Chair	Brisbane, Australia
Sandra Hall - Secretary	Brisbane, Australia
Hayley Galbraith - Secretary	Sydney, Australia
Damien Batstone	Brisbane, Australia
Keith Cadee	Perth, Australia
Bill Capati	Gold Coast, Australia
Shoshana Fogelman	Gold Coast, Australia
Jurg Keller	Brisbane, Australia
Cheryl Marvell	Sydney, Australia
Steven Pratt	Brisbane, Australia
Richard Stuetz	Sydney, Australia

International Program Committee

Zhiguo Yuan - Chair	The University of Queensland, Australia
Eduardo Ayesa	CEIT, Spain
Alex Ekster	Ekster and Associate Inc, USA
Robert Hill	EMA Inc., USA
Chang-Won Kim	Pusan National Univ., Korea
Stefano Marsili-Libelli	University of Florence, Italy
Ingmar Nopens	Ghent University, Belgium
Gustaf Olsson	Lund University, Sweden
Yongzhen Peng	Beijing University of Technology, China
Andy Shaw	Black & Veatch, USA
Yoshihisa Shimizu	Kyoto University, Japan
Henri Spanjers	Lettinga Associates Foundation, The Netherlands
Peter Vanrolleghem	Université Laval, Canada
Alejandro Vargas	UNAM, Mexico
Eveline Volcke	Ghent University, Belgium
Stefan Winkler	Technical University of Vienna, Austria
Miroslav Zelezny	EIC Solutions, Canada

Conference Themes

- Sensors and instrumentation systems, including software sensors
- On-line monitoring and control of:
 - wastewater collection (sewer networks) and treatment systems
 - water treatment and distribution systems
 - anaerobic sludge and wastewater treatment systems
 - advanced water treatment systems for water recycling and water reuse including membrane processes
- On-line monitoring of river and groundwater quality
- The use of in-situ analyzers for water and wastewater monitoring and control
- Monitoring networks
- Detection of micropollutants and microbial contaminants
- Plant wide control and automation
- Integrated control of sewers and wastewater treatment plants
- Modelling and simulation for control and operation
- Early warning, fault detection and diagnosis, and fault-tolerant control
- Information systems for operation, control and decision support
- Full-scale experiences in control and automation



Paper Submission

Papers for this conference can be submitted in either **Extended Abstract** of 3 pages or **Full Papers** of 8 pages format. Both formats will be considered for Oral presentation if submitted no later than **16 January 2009**. Papers for poster presentation will be accepted until **1 May 2009**. Papers will be reviewed by no less than 2 persons from the Local Organising or International Program Committees. Extended abstracts and full papers selected for either oral or poster presentation will be published in the ICA2009 conference proceedings. Authors who wish to have their paper published in Water Science and Technology should submit their full paper simultaneously to the journal for consideration according to their guidelines. Please see <http://www.iwaponline.com/wst/>. For submission details and guidelines for the ICA2009 submission please see the conference website <http://www.iwa-ica2009.org>



Conference Program

The program will start on Sunday 14 June with a tropical welcome reception. The program days of 15, 16 and 17 June will consist of Plenary speakers, 2 concurrent Oral sessions and Poster sessions. In addition to the main program a pre-conference ICA course will be organised if there is enough interest from delegates. The technical program will be complemented by an exciting social program with a Gala Dinner on the last night, and plenty of time to enjoy the surrounding attractions of the Rainforest and the Reef.

Conference Location and Venue

Cairns is in the heart of the Asia Pacific region and is fringed by the Great Barrier Reef and World Heritage Rainforest. An International Airport and multi-cultural city makes Cairns the perfect destination for International visitors and with 4000 beds within walking distance of the centre all are welcome.



Cairns is a popular travel destination for tourists because of its tropical climate and proximity to many attractions. The city experiences a dry season between April and November with very pleasant temperatures during June-August. Cairns is a major international destination for scuba diving due to its close proximity to the Great Barrier Reef which can be reached in less than 1 hour by boat.



The Cairns Convention Centre is a purpose built, international standard meetings facility. Not only is it the most innovative, flexible and functional centre of its kind, it's the most stunning - both inside and out. The Cairns Convention Centre is Australia's first environmentally designed major public building and has won many awards for its energy and resource conservation features.

This adds up to be an extremely attractive package, both for a successful conference and an exciting stay in one of Australia's most stunning locations.

Important Dates

Paper submission open	31 October 2008
Paper due date (Oral consideration)	16 January 2009
Registration Open	16 January 2009
Paper acceptance notification	13 March 2009
Early bird registration closes	10 April 2009
Paper due date (Poster only)	1 May 2009
Revised paper submission date	15 May 2009
Welcome function and on-site registration	14 June 2009
Conference program	15-17 June 2009



Registration Fees

The registration fee will be in Australian dollars and for IWA and AWA Members will be not more than \$1200. There will also be a reduced rate for IWA Members from Low Income Countries and Students. This registration fee will cover all scientific and technical program, conference proceedings and CD with full papers of presentations, morning and afternoon tea (3 days), lunch (3 days), Welcome Reception, and Gala Dinner.

For more information please see the ICA2009 Website

<http://www.iwa-ica2009.org>

LOC and Scientific Program Secretary
Dr Sandra Hall, The University of Queensland
program@iwa-ica2009.org or loc@iwa-ica2009.org

LOC and Registration Secretary
Hayley Galbraith, Australian Water Association
registration@iwa-ica2009.org