



Hydraulic Measurements & Experimental Methods 2007

Conference Steering Committee



Hydraulic Measurements & Experimental Methods 2007

Yes! Please add me to your mailing list.

- I'd like more information! Please send me the full conference program when it becomes available.
- I am interested in presenting at the conference and plan to submit an abstract.
- I am interested in sponsoring or exhibiting, please send details.

To make sure you receive all future announcements and program information, fax or mail this form today!
Information will be kept fully confidential and will be used solely for this conference.

Name _____

Title _____

Organization _____

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- David Hill, Conference Co-Chair
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IAHR Liaisons

- Dr. Christopher George, Executive Director IAHR, chrisgeorge@iahr.org
- Gerhard Jirka, IAHR Council Vice-President, Universitat Karlsruhe, jirka@ifh.uka.de
- Marian Muste, Chairman, IAHR Hydraulic Instrumentation Section, University of Iowa, marian-muste@uiowa.edu

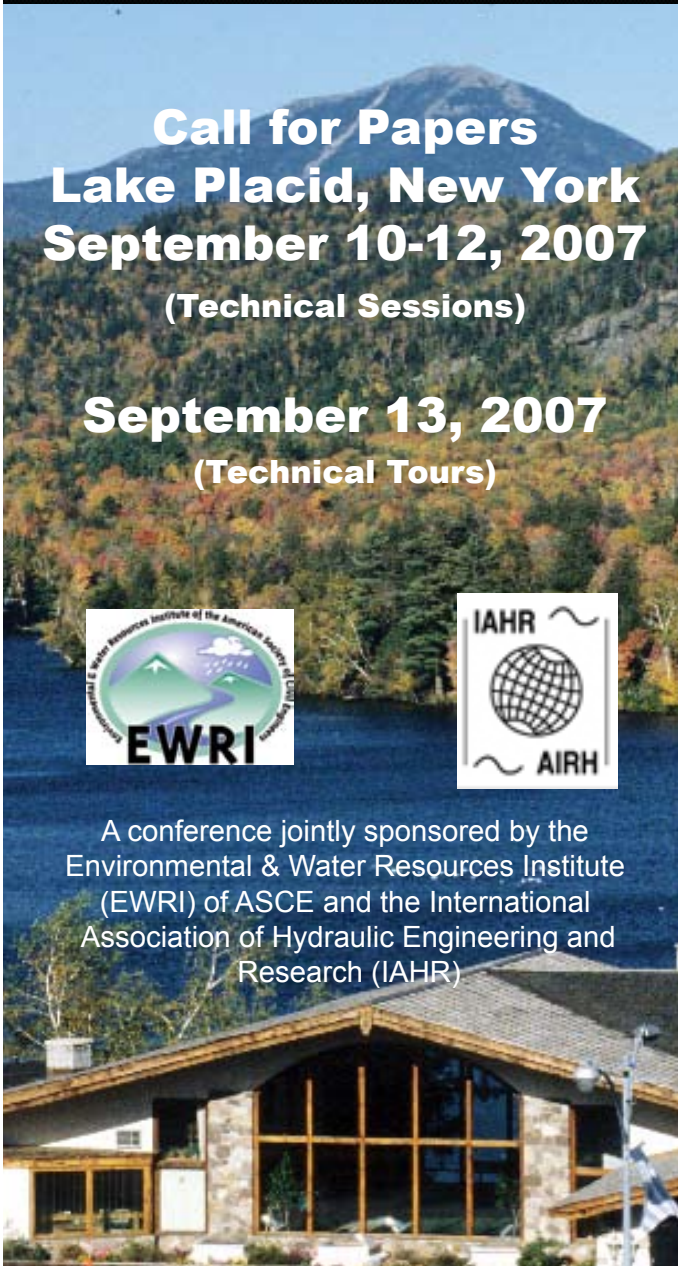
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Call for Papers
Lake Placid, New York
September 10-12, 2007
(Technical Sessions)

September 13, 2007
(Technical Tours)



A conference jointly sponsored by the Environmental & Water Resources Institute (EWRI) of ASCE and the International Association of Hydraulic Engineering and Research (IAHR)

About the Conference

Plan to participate in and attend this international conference on Hydraulic Measurements and Experimental Methods. This joint EWRI of ASCE and IAHR conference will provide an opportunity for researchers, practitioners, and students of the field to come together in a common single-themed forum to exchange ideas and share discussions on current issues, applications, new technologies and the future of Hydraulic Measurements & Experimental Methods.

Hydraulic Measurements & Experimental Methods 2007 (HMEM 2007) is the third in a now highly successful series of HMEM conferences; the first having been held in Buffalo, NY in 1994 and the second in Estes Park, CO in 2002. The field of Hydraulic Measurements & Experimental Methods represents the broad range of tools, techniques, and analyses that are brought to bear on the problem of quantifying all aspects of surface water flows - in rivers to lakes to estuaries and coastal oceans as well as manmade aquatic systems such as irrigation channels and reservoirs. As water monitoring and management become ever more important to a world that is facing increasing pressures on its water quality and quantity, developments of new technologies and analyses are increasingly in demand.

Conference Format

Registration will open on Sunday afternoon. The three day technical program (Monday – Wednesday) will be followed by technical field trips on Thursday. Authors are expected to orally present their talks. Extended abstracts of the talks will appear in the Conference Proceedings available at registration. Selected extended abstracts will be invited for extension to full papers to be part of a post-conference peer reviewed publication. All published materials and spoken presentations will be in English. Prof. Gerhard Jirka will give the 2006 Hunter Rouse Hydraulic Engineering Award Lecture, titled Environmental Fluid Mechanics, during the technical program.

Conference Topics

All relevant topics are encouraged for discussion including new developments in measurement technologies, new analyses that improve data quality or extract increased information from existing tools, unique examples of applications of techniques, the analysis of uncertainty and optimizing the deployment of measurement technologies to minimize uncertainty. Developments of data collection networks, autonomous networks of sensors, and remotely sensed measurements are of special interest.

Suggested topics include:

Advances in Measurement Technology

- Mechanical instruments
- Electro-magnetic instruments (velocity, discharge, etc.)
- Optical instruments (LDV, LIDAR, PIV, etc.)
- Acoustic instruments (ADV, ADCP, etc.)
- Non-contact/remote techniques (PIV, RADAR, etc.)
- Autonomous sensor and (wireless) transmission networks

Measurements for Fundamentals of Flow Processes

- Complex flows
- Multi-phase flows
- Sediment transport (bed load, suspended load, turbidity, etc.)
- Shallow flows
- Bathymetry/depth monitoring (rivers, lakes, coastal areas, etc.)
- Flow through hydraulic structures
- Coherent flow structures

Measurements of BioGeoPhysical Integrated Parameters

- Environmental flows (flow through vegetation, habitat characterization, pollutant dispersion, etc.)
- Measurements in extreme flow conditions (floods, droughts, cold regions, etc.)
- Measurements in extreme wind conditions (tornadoes, hurricanes, vertical wind shear, etc.)

Experimental Methods and Data Analyses

- Optimal deployments/real-time optimization of measurement technologies
- Multi-parameter measurements (velocity, depth, suspended-sediment concentration, temperature, etc.)
- Long term monitoring & databases (e.g., GIS-based)
- Visualization, spatio-temporal analyses, velocity mapping, temperature mapping, etc.
- Integration into predictive models, data mining and assimilation, nudging
- Uncertainty analyses

Commercial Measurement Equipment

- Instrument demonstrations
- Measurement forums with vendors
- Exhibits by instrumentation vendors

Abstract Information/Key Dates

Abstracts should describe the theme and content of the proposed paper and should address one or more of the conference topics listed in this call for papers.

In addition your abstract must:

- Be 500 words or less, written in English
- Include the full paper title
- List the affiliation, mailing address, phone and fax numbers and e-mail address of the author(s), and indicate primary contact

Key Dates

Abstracts Due: October 31, 2006

Author Notification: December 15, 2006

Final Extended Abstracts (4-page minimum, 6-page limit)

Due: May 1, 2007

**Submit your abstract electronically via the conference website at:
www.asce.org/conferences/hmem07**

Destination: Lake Placid



Hydraulic Measurements & Experimental Methods 2007 will take place at the Crowne Plaza Resort & Golf Club in Lake Placid, New York. Conveniently situated in the heart of the world famous Olympic Village of Lake Placid and adjacent to the Olympic Center, the Crowne Plaza Resort & Golf Club spans over 1,000 acres offering 360 degree views of the majestic Adirondack mountains and lakes. The Resort is conveniently located in the center of town offering easy walking access to the quaint international shops and restaurants of Main Street. The Crowne Plaza Resort & Golf Club offers a range of amenities such as a 45 Holes of Championship Golf, 11 Tennis Courts, a Private Beach Club, 4 restaurants, indoor pool, and many other amenities to enjoy during your stay.

To learn more about the Crowne Plaza Resort & Golf Club visit <http://www.lakeplacidresort.com>.

In and around Lake Placid there are many distinct and unique activities. From mountain biking and hiking in the High Peaks, to fly fishing and canoeing on the mountain rivers and lakes, to theater, museums and touring (or experiencing!) the Olympic venues, the possibilities are endless!

Check out <http://adk.com> for further possibilities.

