



3rd International Week on Risk Analysis, Dam Safety, Dam Security, and Critical Infrastructure Management



October 17 - 21, 2011 Valencia, Spain

3rd INTERNATIONAL FORUM

OCTOBER 17 - 19, 2011



Homeland Security

11th ICOLD BENCHMARK WORKSHOP

OCTOBER 20 - 21, 2011



31st January 2011

CALL FOR PAPERS (FORUM and BENCHMARK WORKSHOP – Open Technical Session)

As society continues to increase its demands for higher levels of safety, security and reliability for all critical infrastructures, the design, construction, and operation of dams should be integrated as part of a comprehensive risk management framework. Integrated management strategies are becoming increasingly important in recent years and as such, their related implementation efforts should include aspects such as sustainability, resilience, and public participation.

The purpose of the **3rd International Week on Risk Analysis, Dam Safety, Dam Security, and Critical Infrastructure Management (3IWRDD)** is to provide an effective forum for the exchange of knowledge and best practices between key stakeholders, including owners and operators, designers, engineers, researchers and government authorities.

The 3IWRDD will include a number of different events and activities, including the **3rd International Forum on Risk Analysis, Dam Safety, Dam Security, and Critical Infrastructure Management (October 17-18)** and the **11th ICOLD Benchmark Workshop on Numerical Analysis of Dams (October 20-21)**. Different technical topics and themes will be discussed during the Forum and Benchmark Workshop sessions. In addition, a technical tour and practical course will be conducted on October 19 to provide direct insight on some of these issues. Through exciting technical sessions and challenging discussions, the 3IWRDD will provide an excellent opportunity for international collaboration between public and private professionals, companies and institutions regarding this important critical infrastructure sector.

Important dates and agenda

31 January 2011:	Call for abstracts
1 May 2011:	Deadline for submittal of abstracts
1 June 2011:	Acceptance notification
31 July 2011:	Deadline for submittal final papers
<i>17 October 2011:</i>	<i>Opening of the 3rd International Forum on Risk Analysis, Dam Safety, Dam Security, and Critical Infrastructure Management</i> Sessions I and II.
<i>18 October 2011:</i>	<i>Sessions III and IV.</i> Open session.
<i>19 October 2011:</i>	<i>Practical course on risk computation or Technical tour with visits to critical infrastructures (to be defined later, return to Valencia around 19 h).</i>
20 October 2011:	Opening of the 11 th ICOLD Benchmark Workshop Working session, theme A Working session, theme B
21 October 2011:	Working session, theme C Open Technical Session Conclusions

Steering Committee

Prof. Ignacio Escuder-Bueno, Chair
Polytechnic University of Valencia (UPV, Spain)

Dr. Enrique Matheu, Forum Co-Chair
U.S. Department of Homeland Security (DHS, United States)

Dr. Jose Polimón, Benchmark Co-Chair
Spanish Committee on Large Dams (SPANCOLD) and European Club of ICOLD

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Organizing Committee BENCHMARK WORKSHOP

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Scientific Committee BENCHMARK WORKSHOP

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Glagovsky, Vyacheslav	Rusia	Tancev, Ljubomir	F.Y.R.Macedonia
Gunn, Russell M.	Switzerland	Uchita, Yoshihisa	Japan
Hassanzadeh, Manochehr	Sweden	Varpasuo, Pentti	Finland
Marco, Carlos	Spain	Zenz, Gerald	Austria

Sessions of the Forum

The Forum is divided into four sessions (two sessions will be held on October 17 and other two on October 18). The topics of each session are the following:

Session I – Risk Analysis

- Tools for risk estimation and evaluation
- Risk computation
- Tolerability criteria and risk management
- Case histories

Session II – Dam Safety

- Legislation and policies
- Hydrological, seismic and operational issues
- Surveillance, monitoring, assessment, evaluation, and emergency preparedness
- Case histories

Session III – Dam Security

- Security programs and incident management
- Blast damage and vulnerability assessment
- Cybersecurity
- Case histories

Session IV – Critical Infrastructure Management

- Assessment and categorization of critical infrastructures
- Management strategies
- Prioritizing investments
- Case histories

Proposed technical themes and subjects

Theme A

TITLE: Effect of concrete swelling on the equilibrium and displacements of an arch dam.

Subject proposed by Coyne et Bellier - Tractebel Engineering.

Theme B

TITLE: Simulation of the behavior of prototype of rockfill dams during overtopping scenarios. Seepage evolution and beginning of failure.

Subject proposed by CIMNE (International Center for Numerical Methods in Engineering), UPM Polytechnic University of Madrid and CEDEX Centre for Hydrographical Studies.

Theme C

TITLE: Estimation of the probability of failure of a gravity dam for the sliding failure mode.

Subject proposed by Polytechnic University of Valencia.

Call for Abstracts

Participants are invited to submit abstracts (up to 350 words in length) for the Forum sessions (Risk Analysis, Dam Safety, Dam Security, and Critical Infrastructure Management) or the Open Technical Session of the Benchmark Workshop. Abstracts should describe the purpose and conclusions of the potential paper, including the complete title of the paper, author(s), email address, phone and fax numbers. Please note that all abstracts should be submitted through the following website: www.ipresas.upv.es and using the corresponding form.

Useful Information

How to participate...

Participants are invited to complete the available *FORUM Pre Registration Form* or *BENCHMARK Pre Registration Form* and fax or mail it to the Organizing Committee (contact data is defined in the form).

The deadline for submittal of Application is **May 1, 2011**. They will automatically receive further information for collecting the subjects, preparing contribution, as well as the Final Program and Registration Form.

Venue

The 3IWRDD will be held in the Polytechnic University of Valencia (UPV), "Nexus" building. Sessions and conferences, as well as scheduled activities will be on place.

There will be two additional activities during the 3rd International Week (October 19), the day before the Benchmark Workshop, with the visit of hydraulic works (still to be defined) and practical course. There there will be simultaneous translation during the 3IWRDD.

Collecting problem subjects

The proposed Benchmark Workshop themes will be freely available from **January 24, 2011**, on www.ipresas.upv.es.

Registration

Payment of a Registration Fee will be required to participate in Forum and Benchmark Workshop.

The Registration Fees will cover access to subjects, attendance to all sessions, scheduled activities and proceedings. Registration will be possible from **March 1, 2011**.

Hotel Reservations

The list of the hotels immediately close to the meeting place (UPV) will be provided in the Final Bulletin. Those who prefer to lodge in the Valencia touristic centre will easily get there after a few minutes of public transport.

For any information related to registration or organization of the 3IWRDD, please contact by e-mail, Att. Ms. Jesica Castillo-Rodríguez, in the following address: jecasrod@aaa.upv.es

It is also recommended to visit the website: <http://www.ipresas.upv.es>

3IWRDD Organizing Committee