

Program

Forum

October 17, 2011 (Monday)
Morning: Session I (Risk Analysis)
Afternoon: Session II (Dam Safety)

October 18, 2011 (Tuesday)
Morning: Session III (Dam Security)
Afternoon: Session IV (Critical Infrastructure management)

October 19, 2011 (Wednesday)
a) Technical Tour
b) Practical course on Risk Computation

Benchmark Workshop

October 20, 2011 (Thursday)
Morning: Working Session (Theme A)
Afternoon: Working Session (Theme B)

October 21, 2011 (Friday)
Morning: Working Session (Theme C)
Afternoon: Open Technical Session

Call for Abstracts

Participants are invited to submit abstracts (up to 350 words in length) for consideration for the Forum sessions (**Risk Analysis, Dam Safety, Dam Security, and Critical Infrastructure Management**) as well as the **Benchmark Workshop**, as part of the open technical session. 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.

Organization

Host
Polytechnic University of Valencia (UPV)

Steering Committee:
Prof. Ignacio Escuder-Bueno, Chair
Polytechnic University of Valencia (UPV)

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

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

Sponsoring Organization
Ministry of Science and Innovation of Spain (MICINN)

Important Dates

FORUM (Sessions) and BENCHMARK WORKSHOP (Open Technical Session)

May 1, 2011: Submittal of Abstracts
June 1, 2011: Acceptance Notification
July 31, 2011: Submittal of Final Papers

BENCHMARK WORKSHOP (Themes)

January 15, 2011: Themes Available
September 15, 2011: Submittal of Solutions

Contact Information

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OCTOBER 17-21, 2011 VALENCIA, SPAIN

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

www.ipresas.upv.es



3RD INTERNATIONAL FORUM

OCTOBER 17 - 19



Homeland Security

11TH ICOLD BENCHMARK WORKSHOP

OCTOBER 20 - 21



SPONSORING ORGANIZATION:



IN COLLABORATION WITH:



General

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 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.

Venue

The **3IWRDD** will be held in the city of Valencia, Spain. Valencia, situated on the East coast, is the third largest city of Spain. In recent years, the city has become a focal point for culture, tourism, and industry. Valencia has a magnificent city centre as well as modern architecture such as the *City of Arts and Sciences*, an avant-garde museum complex. Additionally, constant technical innovation is showcased through the construction of advanced infrastructure such as the High-Speed Train Madrid-Valencia.

The **Polytechnic University of Valencia (UPV)** represents the largest technical university in Valencia, with more than 40,000 students. The **3IWRDD** will be conducted in the new conference building: Nexus. For additional information on the city of Valencia, please visit <http://www.turisvalencia.es/>

Forum Sessions

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

Benchmark Workshop Themes

Theme A: *Effect of concrete swelling on the equilibrium and displacements of an arch dam.*

Formulator: Coyne et Bellier-Tractebel Engineering

Theme B: *Simulation of the behavior of prototype of rockfill dams during overtopping scenarios (Seepage evolution and beginning of failure).*

Formulator: CIMNE, UPM and CEDEX

Theme C: *Estimation of the probability of failure of a gravity dam for the sliding failure mode.*

Formulator: Polytechnic University of Valencia (UPV)

Committees

FORUM - Organizing Committee

Andreu, Joaquín (Spain)
 Ardiles, Liana (Spain)
 Aviñó, Mercedes (Spain)
 Bonet, Federico (Spain)
 Escuder, Ignacio (Spain), Chair
 Gil, Arturo (Spain)
 González, Javier (Spain)
 Matheu, Enrique (USA), Co-Chair
 Meghella, Massimo (Italy)

BENCHMARK WORKSHOP - Organizing Committee

Altarejos, Luis (Spain)
 Carrere, Alain (France)
 de Cea, Juan Carlos (Spain)
 Escuder, Ignacio (Spain), Chair
 Larese, Antonia (Spain)
 Mañueco, Gabriella (Spain)
 Mazza, Guido (Italy)
 Noret, Christine (France)
 Polimón, José (Spain), Co-Chair

Technical Tour / Practical Course

In addition to the Forum and Benchmark Workshop, two additional activities will be offered on October 19, 2011, including a technical tour consisting of site visits to several critical infrastructures as well as a practical course on risk computation.

