



# INTERNATIONAL SYMPOSIUM

Changing Times: Infrastructure Development  
to Infrastructure Management

Wednesday, August 14, 2013

## CALL FOR PAPERS

Participants are cordially invited to submit abstracts of proposed papers for presentation at the International Symposium. Initial acceptance will be for the Abstract *only*. Please do not submit a full paper until requested in writing. All accepted papers will be published electronically in the Symposium Proceedings and will be presented in either oral or poster sessions. All papers and presentations will be in English.

## ABSTRACT SUBMISSION GUIDELINES

Please adhere to these guidelines when preparing your document:

- » Include the following information at the beginning:
  - Title of proposed paper
  - Primary author's name, affiliation, city, state/province, country and email
  - Coauthor's name (if applicable)
  - Topic number (1, 2, 3, 4, or 5, see next page)
- » Limit text to 300-400 words
- » Format text as 12-point, left-aligned
- » Save file as Adobe PDF
- » Limit file size to 1MB

All submissions should be emailed by September 30, 2012, to Amanda Griffin at [ang@freese.com](mailto:ang@freese.com)

## Important DATES

Abstract Submission  
Deadline:

**September 30, 2012**

Notify Authors  
of Acceptance:

**November 16, 2012**

Draft Papers Due:

**January 31, 2013**

Review Comments  
to Authors:

**March 29, 2013**

Final Papers Due:

**May 1, 2013**

A list of possible  
paper topics are  
listed on the back  
of this page

[www.icold2013.org](http://www.icold2013.org)



## 2013 THEME

The 2013 topics, listed to the right, were chosen to reflect that much of the world, including the United States, faces the challenges of managing an aging dam infrastructure during a time when sustainability, safety and security concerns are paramount.

*Concurrent sessions and poster sessions will maximize opportunities for delegates to make presentations.*



## TOPICS AND SUB-TOPICS:

### 1

#### **Technical Approaches for Managing an Aging Infrastructure**

- a. Addressing concrete deterioration due to climatic conditions and freeze-thaw
- b. Managing structural impacts of alkali-aggregate reactions in dams
- c. Prediction, prevention, and repair of scour damage
- d. Providing for resiliency and reliability in earthen embankments
- e. Seepage control for foundation and abutment stability in existing and new dams
- f. Inspection, repair, and replacement of spillway gates and superstructures

### 2

#### **Advances in Dam Safety, Security, and Risk Management**

- a. Role of risk management in a modern dam safety program
- b. Applying risk management concepts to prioritize improvements to aging facilities
- c. Practical risk management tools for prioritizing upgrades to a portfolio of dams
- d. Adapting inspection, maintenance and operations practices considering changes in climate, loading conditions, water supply uses, and regulatory requirements
- e. Adapting security programs to changing conditions and world events
- f. Integrating safety, security, and incident management into complementary risk management programs

### 3

#### **Strategies for Extending Service Life of Dams**

- a. Using advanced construction methods to reduce maintenance requirements
- b. Innovative rehabilitation technologies to address repair challenges
- c. Addressing sedimentation impacts on reservoir storage capacity
- d. Advanced methods for increasing reservoir storage and spillway discharge capacity
- e. Non-structural approaches to facility life extension

### 4

#### **Innovative Surveillance and Monitoring Systems**

- a. Emerging technologies for monitoring dams and their foundations
- b. Performance evaluation of dams using monitoring data
- c. Design and construction of instrumentation systems considering operations and maintenance requirements

### 5

#### **Decommissioning Dams at the Completion of their Useful Service Life**

- a. Case studies in dam removal and restoration
- b. Predicting future conditions following removal and restoration