

## ICOLD Information – September 2017

### **85th GENERAL ASSEMBLY, PRAGUE (CZECH REPUBLIC), JULY 2017**

The Minutes of the General Assembly (plus Appendices), and the Progress Reports of the Technical Committees submitted to the General Assembly are now available on the ICOLD website.

These can be found in the “Member Sections” and then “Circular Letters” under Circular Letter 1914. However, a summary of the meeting and the work of the Technical Committees will soon be appearing in Dams and Reservoirs.

### **ICOLD INNOVATION AWARD 2018**

A new award for stimulating Innovation has been launched by ICOLD, open to single authors or to teams.

The award will comprise

- A certificate for “ICOLD Innovation Award 2018”
- A cash prize of 1500 Euros
- Free access to the 2018 Congress in Vienna

Different kinds of innovations are accepted, both scientific and technical contributions, such as (but not limited to):

- New solutions
- New methods for construction
- New materials
- New environmental friendly approaches

Reports must be submitted by the candidates to ICOLD Central Office **before 15 October 2017** at:

ICOLD Central Office, 61 avenue Kléber, 75116, Paris, France, or [contact@icold-cigb.org](mailto:contact@icold-cigb.org)

The name and address of author(s) must be clearly indicated on the report

The title of the report must start with "**ICOLD Innovation Award 2018**"

All reports will be evaluated not later than 31 January 2018, and the winner(s) will receive their presentation at the Vienna Congress in July 2018

Full details are on the ICOLD website: [http://www.icold-cigb.net/GB/icold/icold\\_innovation\\_award.asp](http://www.icold-cigb.net/GB/icold/icold_innovation_award.asp)

### **TECHNICAL BULLETINS**

Four Bulletins have recently been published by ICOLD Technical Committees, namely:

#### **Bulletin 154 - Dam Safety Management: Operational phase of the dam life cycle**

This Bulletin, prepared by the Committee on Dam Safety, is devoted to the development and the implementation of a dam safety management system for dams in the operational phase of their life cycle. It outlines the general structure of a systems approach to safety management, and strives to develop a system that can address all the interdependencies, and encompass all arrangements necessary to ensure proper dam safety management.

#### **Bulletin 151 - Tropical Residual Soils as dam foundation and fill material**

Dam construction across the world has recently acquired an accelerated pace as needs for water supply and renewable energy sources have increased in many countries. Many of these countries are located in areas where tropical residual soils are abundant.

The main difficulty in dealing with these soils for engineering purposes is that their characteristics are very different from those of transported soils.

The purpose of this bulletin, prepared by the Committee for Materials for Fill Dams, is to illustrate how these materials have been accepted and used in dam projects without imposing selection of better known materials that could jeopardize the economic viability of a project.

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### **Bulletin 164 - Internal Erosion of Existing Dams, Levees and Dikes, and their Foundations**

Internal erosion is one of the major causes of embankment dam failure. When constructing new dams, protection against internal erosion is provided by zoning and by providing filters. However, many existing dams are not adequately zoned and do not have filters and may therefore be vulnerable to internal erosion. Others have filters not designed and/or constructed to modern standards; they too may be vulnerable to internal erosion.

Prepared by the Committee on Embankment Dams, the Bulletin is in two volumes:

Volume 1 deals predominantly with internal erosion processes and the engineering assessment of the vulnerability of a dam to failure or damage by internal erosion, with a brief oversight of monitoring for and detection of internal erosion and remediation to protect dams against internal erosion. It includes a comprehensive listing of the terminology used in internal erosion. Many references are also given, including links to many from an ICOLD internal erosion webpage.

Volume 2 gives more details of internal erosion investigations, and appropriate testing, monitoring and detection, and remediation, and gives case histories.

### **Bulletin 168 - Recommendations for Operation, Maintenance and Rehabilitation**

The need for proper operation and maintenance is of crucial importance for developing countries' organizations which may have, at present, limited experience. The aim of this bulletin is to offer the possibility to benefit from the experience of other organizations or countries.

It is also a fact that our dams are aging and one day or another, owners will have to face the issue of rehabilitation or adapting to new operating conditions.

Twenty-eight (28) countries participated at different levels to enable this bulletin to be prepared by the Committee on Operation, Maintenance and Rehabilitation of Dams.

The purpose of this Bulletin is not to define the proper organization or procedures, but to open the eyes of newcomers either to plan for the future of their new dam or to assist them to solve problems they may experience today with their existing dams.