



The 17<sup>th</sup> ICOLD International Benchmark Workshop on Numerical Analysis of Dams will be held in IEC in the city of Sofia, the capital of Bulgaria – a place with history longer than 8000 years.

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*ICOLD Technical Committee A on  
“Computational Aspects of Analysis and  
Design of Dams”*

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COMMISSION INTERNATIONALE  
DES GRANDS BARRAGES  
INTERNATIONAL COMMISSION  
ON LARGE DAMS

## 17<sup>th</sup> ICOLD International Benchmark Workshop on Numerical Analysis of Dams

9<sup>th</sup> - 12<sup>th</sup> April 2025  
Sofia, Bulgaria

*Fifth announcement*

*Updated information on the homepage:*

<https://17bw2025.buncold.bg/>

### Local Organizer



Bulgarian National Committee on Large Dams  
Българско дружество по големите язовири

### Local organizing committee (LOC)

BUNCOLD – Bulgarian Committee on Large Dams  
D. Kisliakov, T. Cholakov, Pl. Nikiforov, V. Anastasov

### Contact

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### Up-to-date information

<https://17bw2025.buncold.bg/>

## General

Numerical modelling has become indispensable for the design, operation and safety assessment of dams. The high technology of numerical modeling, however, consists not only in the explosive increase of the computer hardware and software capabilities in the last decades. It is in the whole highly sophisticated process from the computational model development to its real nature implementation. The Benchmark Workshops organized by the ICOLD Technical Committee A “*Computational Aspects of Analysis and Design of Dams*” since 1991 provide a unique opportunity for engineers and researchers to present and exchange their knowledge and experience in this cutting-edge technology related to the design, and performance of dams.

## Benchmark topics

### Theme A:

**Three-dimensional seismic analysis of Tsankov Kamak Dam (double curvature arch dam).**

*Formulators: UACEG (Bulgaria); RSE (Italy)*

### Theme B:

**Simulation of the transient first impoundment of Plovdivtsi embankment dam.**

*Formulators: UACEG (Bulgaria); Swiss Federal Office of Energy (Switzerland)*

### Theme C:

**Behaviour of a 210m high CFRD – calibration and prediction.**

**Open Theme:** *Papers related to numerical modelling of dams and/or appurtenant structures.*

The up-to-date versions of the task formulations can be downloaded at:

<https://buncold.bg/en/news1.html>

## Workshop Program

**Venue:** Inter Expo Center (IEC), Sofia

**Wednesday, 9<sup>th</sup> April 2025**

*Registration*

Themes presentations and discussion

*Workshop dinner*

**Thursday, 10<sup>th</sup> April 2025**

Themes presentations and discussion

*Dinner in a restaurant with national cuisine*

**Friday, 11<sup>th</sup> April 2025**

Themes presentations and discussion

*Workshop closure*

**Saturday, 12<sup>th</sup> April 2025**

**Technical tour to Tsankov kamak concrete arch dam** (total duration about 10 hours).

## Registration and fees

**Registration has just started. A special form is available at:**

<https://buncold.bg/en/>

Participation fee	EUR
Participants (presenter)	460
Participants (attendee)	530
Students	320
Technical tour to Tsankov Kamak dam	80
Two evening meals for an accompanying person	140

**To the specified fees, a legally based VAT of 20% should be added.**

**Registration fees include lunches, coffee breaks, Workshop welcome dinner, national style dinner, proceedings. Payment will be possible only by bank transfer.**

**The technical tour fee includes transportation by buses, snacks and lunch during the trip. The registration for the Technical tour is optional.**

## Venue

The 17<sup>th</sup> ICOLD Benchmark Workshop on Numerical Analysis of Dams will be held in “Vitosha” hall of the Inter Expo Center (IEC) in the city of Sofia, the capital of Bulgaria

<https://en.iec.bg/>



## Technical tour

The technical tour is optional and will be organized on 12<sup>th</sup> April 2025 to the Tsankov Kamak double curvature arch dam in operation since 2011. It is located 200 km far from Sofia, the trip duration in one direction is about 3 hours.

The dam is prototype of the subject to the task formulation of Theme A.

