

VERONA, 15-19 JUNE

**IT**ECNDT<sup>14<sup>th</sup></sup>  
EUROPEAN CONFERENCE ON NON-DESTRUCTIVE TESTING

# Monitoring and rehabilitation of dams and diversion works: innovation and challenges

## workshop



### Date and time



**Giugno 18, 2026**

14:00 – 17:30

Galleria dei Signori GS B.2  
Padiglione 12

### Location



**Veronafiere**

Viale del Lavoro 8,  
Viale dell'Industria, 36  
37135 Verona, Italia

### Registration



Send an email to [itcold@iol.it](mailto:itcold@iol.it) by June 10, 2026

attaching the registration form received via email together with this  
brochure. For Italian engineers attending the congress, **n. 4 Crediti  
Formativi Professionali (CFP)** will be available.

Organizzato da  
**Comitato Nazionale  
Italiano per le  
Grandi Dighe  
(ITCOLD)**



provider del  
**Consiglio Nazionale  
degli Ingegneri (CNI)**

18.06.2026



## Presentation

Hydropower plays a strategic role in the energy transition, providing renewable generation, storage, and essential flexibility services to support the integration of variable sources such as wind and solar.

However, much of hydropower infrastructure was built decades ago and is now facing increasing aging-related challenges. Ensuring the long-term reliability, safety, and performance of existing dams and diversion works has therefore become a critical priority and a strategic choice.

This workshop brings together state-of-the-art experiences and technologies addressing these challenges, highlighting how innovation in monitoring and rehabilitation can ensure that aging hydropower assets continue to play a central role in a sustainable, secure, and resilient energy system.



## Program

13:30 - 14:00

### Registration and opening of the Workshop

14:00 - 14:10

#### **Introduction**

Guido Mazzà, President ITCOLD

14:10 - 14:30

#### **ITCOLD activities for dam resilience**

Francesco Fornari, ENEL Green Power

14:30 - 14:50

#### **Monitoring hydroelectric plants with InSAR: applications and challenges**

Benedikt Bayer, Fragile

14:50 - 15:10

#### **Fiber Optic Structural Health Monitoring for dams**

Ivan Cottone, Smartec

15:10 - 15:30

#### **Non-destructive testing methods for dam gates**

Michele Hirschler, Hirschler

15:30 - 15:50

#### **Evaluation of an attention index for hydraulic components break**

Marco Lauro, ENEL Green Power

16:10 - 16:30

#### **Ceresole Reale dam rehabilitation: more than 30 years later**

Nicola Brizzo, IREN Energia

16:30 - 16:50

#### **Safety enhancement of the Beauregard Dam**

Ivan Nuris, Compagnia Valdostana delle Acque - CVA

16:50 - 17:10

#### **Real-time monitoring of sediment dynamics using wireless underwater communication systems: a use-case in Friuli-Venezia Giulia**

Cosimo Palmisano, Wsense & Alberto Maccioni, A2A

17:10 - 17:30

### Open discussion and closing of the Workshop