

# Penstocks, pressure shafts & pressure tunnels

*workshop*

Milan  
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## The technical activities of the Italian Commission on Large Dams

Rosella Caruana

## Active Italian Working Groups (coordinator)



- **Buttress and hollow gravity dams** (A. Frigerio)
- **Dams and flood mitigation** (A. Brath)
- **Gate-structure dams** (M. Sciolla)
- **Dams & Earthquakes: case histories** (G. Buffi, R. Caruana)
- **Seismic monitoring of dams** (G. Sembenelli)
- **Pumped storage: what future?** (E. Baldovin)
- **Levees** (F. De Polo)
- **Multipurpose uses in existing dams** (A. Palmieri)
- **Reconstruction of flood events** (F. Santoro)



- **Reservoirs sedimentation** (G. La Barbera)
- **Bibliography of Italian Dams** (S. Munari)
- **Recent seismic events affecting dams** (R. Caruana)
- **Dam maintenance/rehabilitation** (R. Murano)
- **Small dams** (A. Masera)
- **Dam decommissioning** (P. Manni)



## Latest Italian Technical Bulletins (1/2)



1. Reservoir sedimentation (2016)
2. Ecological flow (2016)
3. Small dams (2017)
4. Seismic behavior of Italian dams (2018)
5. Surveillance of dams (2019)
6. Penstocks (2019)

ITCOLD  
Comitato Nazionale Italiano delle Grandi Dighe

La gestione dell'interimento dei serbatoi artificiali italiani  
situazione attuale e prospettive



2016

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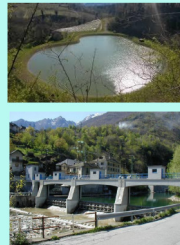
DMV – Deflusso Minimo Vitale  
(FE - Flusso Ecologico)



2015

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COMITATO ITALIANO GRANDI DIGHE

LE PICCOLE DIGHE IN ITALIA



2017

ITCOLD  
Comitato Nazionale Italiano delle Grandi Dighe

Gruppo di Lavoro  
'Comportamento delle dighe italiane in occasione  
di terremoti storici'



2018

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Comitato Nazionale Italiano delle Grandi Dighe

Presidio e Vigilanza delle Dighe



2019

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Condotte forzate



2019

## Latest Italian Technical Bulletins (2/2)



7. Dam maintenance/rehabilitation (2019)
8. Bibliography of Italian dams (2020)
9. Outlets and gates (2021)
10. Italian dam engineering abroad (2021)
11. Dams & Territories (2021)

All the Bulletins are written in Italian and are available on the ITCOLD website

<https://www.itcold.it/bollettini-itcold/>







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***THANK YOU FOR YOUR ATTENTION  
ENJOY THE WORKSHOP...***

