



Detailed Programme*

Monday, September 21st

13:00–20:00	Registration	(Opera Nova Foyer)
14:00–16:00	European Working Groups Meetings • Levees & Flood Defences (<i>location to be confirmed</i>) • Dams and Earthquake (<i>location to be confirmed</i>)	(Kazimierz Wielki University, Plac Kościeleckich 8)
16:30–19:00	EURCOLD Board Meeting	(Kazimierz Wielki University, Plac Kościeleckich 8)

Tuesday, September 22nd

08:00–20:00	Registration	(Opera Nova Foyer)
09:00–10:00	Opening Ceremony	(Opera Nova)
	POLCOLD	Piotr Śliwiński (5')
	Minister of Infrastructure	Dariusz Klimczak (5')
	ICOLD President	Devendra Kumar Sharma (5')
	EURCOLD President	Arjan Jovani (5')
	Kuyavian-Pomeranian Voivode	Michał Sztybel (5')
	Mayor of Bydgoszcz	Rafał Bruski (5')
	Head of Bydgoszcz County	Piotr Kozłowski (5')
	Dam Safety Service (CTKZ)	Maciej Sieński (5')
	State Water Holding Wody Polskie	Mateusz Balcerowicz (5')
	Exhibition Opening – Minister (10')	(Exhibition Area)

10:00–10:30 Coffee break

10:30–12:30 General Session I

(Opera Nova)

Future challenges for dams and reservoirs in Europe (20')

Arjan Jovani, *EURCOLD President*

Dams in Poland, State Water Holding (20')

Mateusz Balcerowicz, *Wody Polskie*

The 2024 Flood in Poland: Course, Key Observations and Conclusions on Dam Safety and Operation (20')

Krzysztof Radzicki, *POLCOLD ad hoc WG*

Use of geosynthetics as filter and barrier in embankment dams (20')

Daniele Cazzuffi, *GS President, CESI SpA*

CFBR guidelines for internal erosion risk assessment (20')

Jean-Jacques Fry, *J-J FRY Consulting*

Partner presentation (20')

12:30–13:30 Lunch break

14:30–15:45 Session A (part I): Dams and reservoir safety management for people

(Opera Nova)

Wind-wave contributions to freeboard determination in Swiss Alpine reservoirs: A systematic analysis (15')

Alexandre Jean Pachoud *Dam Safety Unit, SFOE, Bern, Switzerland*

European BECCA project: Solutions for safe reservoirs, integrated into their environment and respectful of biodiversity, as part of climate change adaptation in mountain areas (15')

Laurent Peyras *INRAE UMR RECOVER Aix en Provence, France*

Behaviour Monitoring and Safety Assessment of a Very High Arch Dam during Reservoir Drawdown (15')

Daniel Gaftoi *Technical University of Civil Engineering Bucharest, Bucharest, Romania*

Experimental investigation of earth dam breaching – latest research results (15')

Krzysztof Zamiar, *Wrocław University of Science and Technology, Wrocław, Poland*

Reassessing Seismic Risk for Hydraulic Dams Through Worldwide Experience Feedback (15')

Ludivine Saint-Mard *EDF, Electricité De France*

15:45–16:15 Coffee break

**16:30–18:15 Session A (part II): Dams and reservoir safety management for people
(Opera Nova)**

Procurement process - Contract design - Dam safety Panel of Experts (15')

Bettina Geisseler, GEISSELER LAW, Freiburg, Germany,

Dam Safety Monitoring, Reservoir Management and Renewable Energy
Integration (15')

Elton Hasanaj, KESH Sh. a., Albania

Wind Generated Waves on Mountain Reservoirs: From Review Findings to
Monitoring (15')

Fjola Gudrun Sigtryggisdottir, Department of Civil and Environmental Engineering, NTNU,
Norway

Flow regulation and nutrient dynamics in a Polish lowland reservoir
catchment: Implications from SWAT hydrological modelling (15')

Jyoti Prakash Hati, Faculty of Geographical Sciences, Kazimierz Wielki University
Bydgoszcz, Poland

Partner presentation (15')

Q&A, discussion (30')

19:00–20:30 Welcome Reception (Opera Nova)

20:30–22:00 “Back to the Past” – film & electronic music concert (Opera Nova)

Performers:

Soundwalker (Łukasz Sobczak) – keyboards, composition, arrangements

Miłosz Sobczak – acoustic guitar, electric guitar, keyboards

Kacper Petryna – percussion, sound effects

Wednesday, September 23rd

09:00–10:30 Session B: Dams and Energy (Opera Nova)

EURCOLD bulletins on penstocks, pressure shafts and tunnels: Selected aspects of fatigue evaluation of welded steel parts (15')

Alexandre Jean Pachoud, *Dam Safety Unit, SFOE, Bern, Switzerland*

Pumped storage power plants in Poland (15')

Agata Léthel, *Energoprojekt-Warszawa SA, Poland*

Checking the vibration risks in civil works structures of PSP powerhouses: leveraging on-site investigations to support numerical analysis (15')

Nicolas Ulrich, *ARTELIA, Echirolles, France*

Numerical Optimization of an Integrated Fish Passage System in a High-Capacity Run-of-River Hydropower Plant (15')

Alireza Farhadi, *Baucon International ZT GmbH, Austria*

Q&A, discussion (30')

10:30–11:00 Coffee break

11:30–12:30 Session D: Levees and tailing dams (Opera Nova)

Lessons learned from the operation of safety spillways in flood protection levee systems in France (15')

Rémy Tourment, *Expert engineer. INRAE. Aix en Provence Center, AIX EN PROVENCE, France*

The International Handbook on Emergency Management of Flood Defences (15')

Jonathan Simm, *Independent Consultant, Oxfordshire, UK*

Safety Evaluation and Environmental Restoration for Tailing Dams in Romania (15')

Tudor Pisculidis, *Civil engineer, Someș-Tisa Regional Water Administration, Romania*

Q&A, discussion (15')

12:30–13:30 Lunch break

14:00–16:00 Doors Open Day – Miejska Navigation Lock

16:30–19:00 Session Special: CFBR/French-COLD 100 anniversary (Opera Nova)

19:30–22:00 French Wine Evening

Thursday, September 24th

09:00–10:15 Session C (part I): Dam Engineering and Construction (*Opera Nova*)

Alkali–silica reaction (ASR) in Dams – Mitigation of concrete swelling by cooling (15')

Rico Senti, *MSc in Engineering Geology, Axpo Power AG, Baden, Switzerland*

Challenges in conceptual design of the Skalička dam (15')

Miroslav Spano, *Assistant professor, Brno University of Technology, Faculty of Civil Engineering, Brno, Czech Republic*

Pore Pressure under Concrete and Buttress dams Methods for Rock Mechanics mapping and Discussion of design assumptions (15')

Thomas Konow, *Å Energi Hydropower, Kristiansand, Norway*

Catalyst–Dependent Behavior of a One-Component Water-Reactive Polyurethane for High-Pressure Dam Foundation Seepage Control (15')

Alireza Rouhi, *MSc Yashil Polymer Artan, CEO & Founder, Tabriz, East Azerbaijan, Iran*

Resilience by Design: Access and Maintenance at Havant Thicket Reservoir (15')

Ben Jones, *Professional Engineer, Engineering Council of South Africa, South Africa*

10:15–10:45 Coffee break

10:45–12:30 Session C (part II): Dam Engineering and Construction (*Opera Nova*)

Construction Engineering Practices in NIA Small Reservoir Irrigation Projects (SRIP) (15')

Sweetclair L. Gamboa, *Engr., PhD, Head, Dam Safety Unit, Philippines*

Lighting the way: Sub-millimeter crack detection through high-resolution texture mapping in GPS-denied dam structures (15')

Fredrik Tunberg, *MSc, Spotscale, Linköping, Sweden, Ludvig Emgård*

Innovative Polish Solutions for Monitoring, Seepage Control, and Foundation Engineering of Earth Dams (15')

Krzysztof Radzicki, *Cracow University of Technology, Faculty of Environmental Engineering and Energy, Poland*

A Multilayer Polyfluorosilicone Coating System for Hydraulic Concrete: From Lab Design to Field Validation on RCC and CFRD Dams (15')

Nazim Hussain, *State Key Laboratory of Water Cycle and Water Security, China Institute of Water Resources and Hydropower Research, Beijing, China*

Monitoring Strategies for Swelling Concrete Dams: Practices and Perspectives (15')

Emmanuel Robbe, *EDF Hydro, Saint Martin le Vinoux, France*

Q&A, discussion (30')

12:30–13:30 Lunch break

14:00–16:00 General session II

Hydropower in Poland (20')

Michał Lis, *Energetyka Wodna*

Quantifying Regional Reservoir Sedimentation and Storage Capacity: A Swiss Methodology (15')

Prof. Dr. Robert Boes, *ETH Zurich*

Overview of Structural Typologies and Components (30')

Antonella Frigerio, *ICOLD V-ce President*

Evolving Flood Risks for Dams: Addressing Climate Change and Advancing Engineering Solutions (45')

Michel Lino, *Honorary ICOLD President*

EURCOLD Awards (10')

Arjan Jovani, *EURCOLD President*

16:00–16:30 Coffee break

16:30–17:30 Closing Ceremony

Minister of Infrastructure

Dariusz Klimczak (5')

Kuyavian-Pomeranian Voivode

Michał Sztybel (5')

Head of Bydgoszcz County

Piotr Kozłowski (5')

Mayor of Bydgoszcz

Rafał Bruski (5')

ICOLD President

Devendra Kumar Sharma (10')

EURCOLD President

Arjan Jovani (10')

POLCOLD

Piotr Śliwiński (5')

19:00–23:00 Farewell Dinner

Friday, September 25th

09:00–14:30 Field trip to Żur and Koronowo Dams

The buses start from Opera Nova car park at 09:00

** Programme subject to change*