

THE ORGANIZER OF THE CONGRESS

The Macedonian Committee on Large Dams (MACOLD) is expert, non-government and non-profitable engineering organization and it is a member of the International Commission on Large Dams (ICOLD) since 1950, as a part of former YUCOLD. As an independent organization, MACOLD is a member of ICOLD since 1994 and member of European Club of ICOLD since 2006.

MACOLD has an important role in the designing, construction and maintenance of the large dams in R. Macedonia, throughout direct participation of its members in realization of the projects as well as organization of several congresses, symposiums, workshops, study tours and expert presentations.

In the previous period MACOLD has organized following scientific events:

- (1) Symposium on topic: Designing and construction of dam Kozjak (1999),
- (2) First Congress on dams (2004),
- (3) Symposium on topic: Dam Kozjak – experience from construction, first filling and initial service (2005),
- (4) Second Congress on dams (2009),
- (5) International Workshop "Advanced methods and materials for dam construction", with lecturers from Greece, Switzerland and R. Macedonia (2009),
- (6) International Symposium "Dams - recent experiences on research, design, construction and service", organized by MACOLD and SLOCOLD (2011),
- (7) Conference on topic: Tailings dams in Republic of Macedonia (2012),
- (8) Third Congress on dams (2013),
- (9) 10th Conference on Water Economy and Hydraulics (2014),
- (10) Conference on topic: State of the Water Economy Infrastructure (2015),
- (11) 11th Conference on Water Economy and Hydraulics (2016),
- (12) IV Congress on dams (2017),
- (13) Tribune on topic: 80 years of dam engineering in RN Macedonia (2018),
- (14) 12th Conference on Water Economy and Hydraulics (2019), and
- (15) Second International Symposium "Water reservoirs – an Active Measure in Adapting to Climate Change", organized by MACOLD and SLOCOLD (2020).

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Macedonian Committee on Large Dams (MACOLD)

Member of the International Commission on large dams (ICOLD)



Member of the European club of ICOLD



5TH CONGRESS ON DAMS

First Announcement (23.4.2021)

Struga, 30.9 - 2.10.2021

AIM OF THE CONGRESS

The key pillar of the water economy infrastructure in R. Macedonia are the 43 large dams with regional impact, from which 4 are tailings dams and approximately 110 lower dams with local impact. According to the ICOLD criteria, dams of special importance and some number of lower dams are in the category of large dams, that shows that in proportion of the size of the state, Macedonia is positioned highly at the "Dam engineering" in Europe frame.

The basic mission of Macedonian Committee on Large Dams (MACOLD) is to enable exchange of experience and knowledge transfer for its members by organizing domestic and international scientific events that will preserve the MACOLD reputation and will improve the Macedonian school of hydraulic engineering.

The 5th Congress on Dams organized by MACOLD is continuation of the association activities from the past period. The main aim of the Congress is to present the experience of MACOLD members and all involved in Dam Engineering here and within the region, gained at investigation, designing, construction and maintenance of dams with appurtenant structures. At the same time, by organizing of the Congress, the participants will be allowed to discuss the various aspects of the proposed current topics, adopted at a meeting of MACOLD Chairmanship.

MACOLD EVENTS SUPPORTERS IN 2020

- Civil Engineering Faculty, Ss Cyril and Methodius University, Skopje
- SCMU, Institute on earthquake engineering and engineering seismology, IZIIS, Skopje
- Mine BUCHIM, Radovish
- CAKAR & PARTNERS, Skopje
- Chamber of certified architects and certified engineers of Macedonia
- Macedonian power plants – AD ESM, Skopje
- SINTEK Specific, Skopje
- MGM eng. Skopje
- PE Strezhevo, Bitola
- GEING KuK, Skopje
- ZIM, Skopje
- PE Lisiche, Skopje
- Ministry of transport and connections, Skopje
- PE Zletovica, Probishtip

CONGRESS INFO

The working part of the Congress will take place from 30.9 – 1.10.2021 in hotel Drim, Struga and on 2.10.2021 (Saturday) a study tour on dam with appurtenant structures is planned. The registration fee for the Congress is 50 € and it includes: congress participation, Proceedings, coffee break and get together dinner.

Beside the MACOLD's members and National Committees on Dams from the region, all involved in the field of Dam engineering, employees in state and scientific institutions, water power, water economy and communal enterprises, as well and employees in civil engineering companies, will be invited for participation on the Congress.

The participants will receive Certificate on continuous professional development, issued by the Chamber of Certified Architects and Certified Engineers of Republic of Macedonia, valued by 4 CPD points.

Official languages of the Congress are Macedonian and English.

CONGRESS TOPICS

The Congress papers, unpublished previously, should consider the following topics:

Topic no. 1. Investigation and designing of hydraulic structures

- required investigation works and data bases for designing;
- alternative solutions on disposition of structures within the hydraulic scheme;
- application of advanced methods for analysis for structural and seepage analyses of dams;
- advanced hydrologic and hydraulic analysis of appurtenant structures;
- evaluation of ecological and social aspects and interaction with the technical documentation.

Topic no. 2. Experience from construction of dams and tailings dams

- application of advanced construction technologies and materials;
- quality control of materials during construction;
- measures on environment protection during construction of hydraulic structures

Topic no. 3. Maintenance, monitoring and restoration of dams and appurtenant structures

- organization of the technical monitoring;
- implementation of measures and recommendations from the technical monitoring;
- restoration of dams and appurtenant structures;
- tailings dams recultivation.

Topic no. 4. Regulation codes, financial means and operation with hydro systems

- problems within the current law regulation in domain of dams at obtaining of construction approval;
- rights and obligations of hydro system operators;
- operational rules for flood protection at constructed hydro systems;
- financing of future capital hydro systems with dams and power plants.

PAPERS SUBMISSION

The interested authors should submit title and abstract of the paper in electronic copy (Microsoft Word) on the following e-mail:

macold@macold.org.mk

Abstract should not contain more than 200 words, should have concise paper information, names of the authors, organization, address, telephone and email of the contact person.

The Editorial Boards will revise the submitted abstracts and the authors will be informed electronically for paper acceptance, when they will receive detail instruction on the full paper preparation. The paper is limited at maximum 12 pages. One author as first author of the paper may participate in maximum two papers.

The prepared papers according to the detail instruction should be submitted in electronic copy (Microsoft Word) on the above specified e-mail. The accepted papers by the Editorial Board will be printed in Congress Proceedings.

STUDY TOUR

Details of the study tour will be given in the next announcement.

IMPORTANT DATES

31.6.2021	Abstract submission
15.7.2021	Notification of abstract acceptance and detail instruction for full paper preparation
31.8.2021	Full paper submission
15.9.2021	Final announcement of the Congress and Congress program
30.9-1.10.2021	Working days of the Congress
2.10.2021	Post-study Congress tour

Within the Congress, at appropriate timing, will be held:
1. Round table on topic 'Possibilities of upgrading the existing hydropower systems with reversible HPPs', and
2. Election assembly of MACOLD.