

For the Conference organizer

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 Hydrotechnics (2014),
- (10) Conference on topic: State of the Water Economy Infrastructure (2015),
- (11) 11th Conference on Water Economy and Hydrotechnics (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 Hydrotechnics (2019), and
- (15) Second International Symposium "Water reservoirs – an Active Measure in Adapting to Climate Change", organized by MACOLD and SLOCOLD (2020).
- (16) 5th Congress on dams (2021).

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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



SECOND CONFERENCE ON TAILINGS DAMS

First announcement (31.3.2022)

Shtip, 7-8.10.2022

Aims of the Conference

The tailings dams are hydraulic structures, that during the design, construction and service period, including and also in recultivation stage in the post-service period, their multidisciplinary character comes to full expression. The multidisciplinary character of the tailings dams points to the fact that only by joint equal participation of experts in hydraulics, mining, geotechnics and environment, a correct and harmonious solution can be obtained for these complex engineering structures. The complexity of tailings arises from the following two factors. First, the tailings are composed of a number of structures: initial dam, sand dam, waste lagoon, pulpline, drainage system, water conveyors for outflow of cleared water and external water protection structures (average flow and flood), which require assessment of several types of safety: structural (static and dynamic), seepage, hydrological, hydraulic, technological and environmental. And secondly, due to the large volume of the waste lagoon, tailings dams are embankment structures with the highest potential hazard for the environment. Namely, in case of eventual collapse of the sand dam and rapid emptying of the sediment lake there is danger of human casualties and enormous material damage, as well as permanent degradation of the environment in the downstream river valley.

There are four active tailings in RN Macedonia, for mines Buchim and Borov Dol (Radovish), Sasa (M. Kamenica), Zletovo (Probitip), and Toranica (K. Palanka), and two passive tailings for mines Lojane (Kumanovo) and Jugohrom. (Jegunovce). The importance of mining in RN Macedonia is best illustrated by the official data on gross domestic product (GDP) in 2011, where such industry participates with 18% in the total structure of GDP, and the mining sector participates with 1.5%. According to the data on value added from 2010, the share of the department "Production of metals" is 9.34% in the total industrial production. Therefore, it is not difficult to predict that tailings dams, although they are structures with highest potential hazard for the environment, both in the past and in the future, will be constructed in Macedonia. Due to such reasons, in 2012, in organization of MACOLD was successfully held Conference on topic: Tailings dams in Republic of Macedonia.

The second conference on tailings dams, organized by MACOLD is a continuation of the activities of our association in the past period. The main goal of the Conference is to present the experience of MACOLD members and all those involved in Dam and Tailings Dam Engineering in our country and in the region, gained during research, design, construction and maintenance and recultivation of tailings and tailings dams with appurtenant structures. At the same time, at the Conference, the participants will be given the opportunity to discuss various aspects of the proposed topics, adopted on MACOLD Chairmanship meetings.

Supporters of MACOLD events in 2021

- 1 Civil Engineering Faculty, Ss Cyril and Methodius University, Skopje
- 2 SASA, M. Kamenica
- 3 ADING, Skopje
- 4 Buchim, Radovish
- 5 Borov Dol, Radovish
- 6 CEIM, Skopje
- 7 DIGITEX, Skopje
- 8 IZIIS, SCMU, Skopje
- 9 PE Strezevo, Bitola
- 10 STENTON, Bitola
- 11 GHK, Skopje
- 12 Chakar&partners, Skopje
- 13 IZIKP, Skopje
- 14 BulMak, Probitip
- 15 Geing KuK, Skopje
- 16 SEI, Skopje
- 17 PE Studencica, Kicevo
- 18 AD ESM, HES Crn Drim, Struga
- 19 AD ESM, HES Mavrovo, Gostivar
- 20 PE Vodovod, Kumanovo
- 21 PE Lisice, Veles
- 22 AD VSRM, Skopje
- 23 PE Zletovica, Probitip

General information about the Conference

The working part of the Conference will take place on 7.10.2022 in hotel Oaza, Shtip, and on 8.10.2022 (Saturday) a study tour of tailing dam and appurtenant structures is planned. The registration fee for the Conference is 1500 denars (or 25 €) and it includes participation in the Conference, Conference proceedings, cocktail and refreshments at coffee breaks.

Beside MACOLD's members and National Committees on Dams from the region, all involved in the field of Dam and Tailings 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 to participate on the Conference.

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 3 CPD points. Official languages at the Conference are Macedonian and English.

Conference topics

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

Topic no.1. Investigation and designing of tailings dams from geological, engineering, technological and environmental aspect

Topic no. 2. Experience from tailings dam operation and construction of tailings dams with appurtenant structures

Topic no. 3. Maintenance, technical monitoring, restoration of tailings dams in operation

Topic no. 4. Remediation and recultivation of tailings dams in post-service period

Topic no. 5. Regulative for tailings dams

Submission of papers

Interested authors should submit the title and summary of the paper in Macedonian or English in electronic form (Word DOC format) to the following e-mail: macold@macold.org.mk.

The summary should not exceed 200 words, should contain concise information about the paper, names of the authors, organization, address, telephone and contact e-mail.

The Editorial board will review the submitted summaries and the authors will be notified electronically about the acceptance of the summary, when they will receive detailed instructions for the preparation of the full paper. The paper is intended to be limited to a maximum of 12 pages. An author, as the first author of a paper, can participate with a maximum of two papers.

The prepared reports according to the paper instructions should be submitted in electronic form (Word DOC format) to the given e-mail. Accepted papers by the Editorial Board will be printed in the Proceedings.

Important dates

- 31.6.2022** Summary submission
- 15.7.2022** Information on summary acceptance and guidelines on paper preparation
- 31.8.2022** Full paper submission
- 15.9.2022** Final announcement with Conference program
- 7.10.2022** Work day of the Conference
- 8.10.2022** Study tour on tailing dam Sasa, Makedonska Kamenica