



Photo. Commemorative photo of conference participants

Source: TKZ 2023 archive

## XX Technical Dam Control International Conference – report

**From the twelfth to the fifteenth of September 2023, the twentieth anniversary edition of the Technical Dam Control International Conference was held in Chorzow. Its theme was the safety of hydraulic structures.**

The jubilee edition of the Technical Dam Control Conference was titled "Safety of Hydraulic Structures". The Division of Hydro-engineering and Hydraulics of the Faculty of Building Services, Hydro and Environmental Engineering of the Warsaw University of Technology (WUT) organised the Conference. The Silesian Waterworks Company (SWC), Dam Monitoring Center – National Service for Safety of Hydraulic Structures – Institute of Meteorology and Water Management – National Research Institute (IMWM), the Institute for Applied Research (IAR), Warsaw University of Technology Ltd., Polish Committee on Large Dams (POLCOLD) and the Hydrotechnical Structures Division of the Committee on Civil Engineering and Hydroengineering of the Polish Academy of Sciences (CCEH PAS) cooperated with conference Organizer.

The event was held under the patronage of the General Inspector of Construction Supervision, the President of the Polish Chamber of Civil Engineers, the Marshal of Silesian Voivodship, the Chairman of Silesian Waterworks Company and the Dean of the Faculty of Building Services, Hydro and Environmental Engineering, the Warsaw University of Technology.

Two hundred and four participants from 20 countries participated in the Conference, including forty-seven in-person and fifty-six online participants. The chairman of the Organizing Committee, Prof. Jan Win-

ter, welcomed conference guests at the conference opening ceremony. Dorota Cabańska (GICS), Mariusz Dobrzeński (PCCE), Zbigniew Faruga (SWC) and Paweł Popielski (WUT) welcomed guests on behalf of the honorary patron. The following representatives of the co-organisers gave welcoming speeches: Maciej Sieński (IMWM), Piotr Śliwiński (POLCOLD), Zbigniew Kledyński (CCEH PAS) and Apoloniusz Kodura (WUT). The Speakers emphasised the importance of international cooperation and exchanging experiences in water engineering in hydraulic structures' construction and monitoring, as well as scientific and research work conducted in water engineering.

There were four technical sessions organised. The twenty-six papers out of forty-one published were presented during those sessions.

The first session was dedicated to the 140<sup>th</sup> anniversary of the operation of the Silesian Waterworks Company. Presented papers refer to the history of the Silesian Waterworks Company activity and Goczałkowice Reservoir. Speakers from SWC raised many issues related to the safety of hydraulic structures and maintenance, operation, and modernisation of large water reservoirs in the current law aspects.

Other technical sessions were dedicated to surveying, operating, and maintaining hydraulic structures. The Speakers pointed out the challenges related to the operation of dams and reservoirs in the context of climate change. They discussed the specificity of small dams and hydraulic structures used in agriculture. The papers concentrated on the practical issue of water management and existing hydraulic structure renovation

and modernisation. There were also presentations on new technologies in water engineering and modern measurement and monitoring techniques crucial in evaluating the technical state of the earth and concrete hydraulic structures. Participants had the opportunity to learn about examples of new construction materials and modern measuring equipment presented at the exhibition accompanying the Conference.

On the Conference's third day, a technical trip to Goczałkowice Reservoir, administered by the Silesian Waterworks Company, took place and at the Water Treatment Plant in the Goczałkowice.

Papers submitted to the Conference were published in the following journals: Archives of Civil Engineering, Journal of Water and Land Development, Water, International Water Power and Dam Construction (July 2023), Gospodarka Wodna (9/2023 and 11/2023), Energetyka Wodna (3/2023), Inżynier Budownictwa (7,8/2023 and 9/2023) and a special monograph published by the Institute of Meteorology and Water Management. The XX Technical Dam Control International Conference was co-funded by the state budget, granted by the Polish Minister of Education and Science under the "Excellent Science II – Support for Scientific Conferences" program.

We invite you to follow the Conference's official website: [www.tkz.is.pw.edu.pl](http://www.tkz.is.pw.edu.pl). We invite you to participate in the next edition of the Conference TKZ'2025.

**Prof. Phd Dsc Eng. Jan Winter**

Chairman of the Scientific and Organizing Committees of the XX TKZ 2023 Conference

**Phd Eng. Agnieszka Dąbska**

Secretary of the XX TKZ 2023 Conference