



**WATER**  
ACTION DECADE  
2018-2028



**ICID•CIID**



**14th International  
Drainage Workshop**

MAY 30 - JUNE 1 2024 DUSHANBE

***FIRST  
ANNOUNCEMENT  
&  
CALL FOR PAPERS***

**MODERNIZATION OF IRRIGATION AND  
DRAINAGE SYSTEMS TO ADAPT TO  
CLIMATE CHANGE AND FOR SUSTAINABLE  
DEVELOPMENT**

**MAY 30 - JUNE 1, 2024  
DUSHANBE, TAJIKISTAN**

# ***INVITATION***

The Secretariat of the National Commission on Irrigation and Drainage of the Republic of Tajikistan delighted to extend a warm invitation to all participants for the 14th International Drainage Workshop, organized by the National Commission on Irrigation and Drainage in the Republic of Tajikistan.

In the face of the global challenges posed by climate-related risks, it has become imperative for us to address the issues plaguing our irrigation and drainage systems collectively. This workshop aims to provide a platform for the exchange of knowledge and the sharing of best practices between international and national communities.

Together, we can find innovative solutions to combat climate change and ensure the prosperity of our nations. Let's work together to make a difference and achieve sustainable development.

# ***BACKGROUND***

The Government of the Republic of Tajikistan in 2014 resumed its membership of the International Commission on Irrigation and Drainage (ICID), and the National Commission on Irrigation and drainage (NCID) was established on 29 October 2015 as per Decree No. 620. The Agency for Land Reclamation and Irrigation (ALRI) was entrusted with the functions of ensuring the participation of Tajikistan in the further work of the ICID.

ICID, established in 1950, is a leading scientific, technical, international non-profit, knowledge-sharing, professional organization. The professional network consists of experts from around the world in the fields of irrigation, drainage, flood control, and agricultural water management. The main mission is to promote "sustainable water management in agriculture" to achieve a "world free of poverty and hunger through sustainable rural development".

Within ICID there are several working groups. One of these, the Sustainable Drainage Working Group (WG-SDRG), now the Land Drainage Working Group (WG-LDRG), was established with a mandate to promote sustainable drainage as part of integrated water resources management. Its functions include: (i) to exchange information, knowledge and experience among ICID members in order to keep abreast of new developments, methods and approaches for sustainable drainage, (ii) to prepare and submit reports and / or case studies, (iii) together with NCID of Tajikistan to organize the 14th international drainage workshop to promote sustainable approaches to drainage and related projects through a balanced integration of environmental, economic and social and cultural aspects.



# 14TH INTERNATIONAL DRAINAGE WORKSHOP

## Theme

Within the framework of the "Water for Sustainable Development" 2018 – 2028, the 14th International Drainage Workshop has a more holistic range than in the past and has adopted the theme: *modernization of irrigation and drainage systems to adapt to climate change and for sustainable development.*

## Outputs

The workshop will focus the attention of the world community to the problems associated with the state of irrigation and drainage systems, and the need for modernization in the face of climate change and food production needs. It will consider opportunities offered by technology advancements, gender issues and the role of women, and the need to attract investment to the sector. The expected outputs of the workshop are:

## Expected outcomes

- Agencies and individuals gain better knowledge of irrigation and drainage modernization in its concept, challenges, opportunities, approach, and benefits.
- Recommendations on priority actions for the irrigation and drainage modernization agenda.
- Networking among agencies, private sector, and development partners who work together towards irrigation and drainage modernization.

## Venue and dates

The 14th International Drainage Workshop will be held over three full days from May 30 to June 1, 2024 at the Hyatt Regency Hotel, Ismoili Somoni Avenue 26/1, Dushanbe, Tajikistan.

# ***14TH INTERNATIONAL DRAINAGE WORKSHOP***

## **Opening Session**

The opening session will include speeches by representatives of international financial institutions/ development partners, ICID and other international organizations that support the development of agriculture and water management, adaptation to climate change, including disaster risk reduction, capacity building, better understanding of the “water-energy-food” interaction, and gender issues in agriculture and water management at the national and regional levels and empowering young professionals.

## **Thematic Sessions**

- TS-1.: Modernization of irrigation and drainage systems to adapt to climate change: current state of management, science, technology, and successful international, regional, and national practices.
- TS-2.: Harmonizing Sustainability: Empowering Young Professionals and Gender Inclusivity in Integrated Water Resources Management".
- TS-3.: Nexus Approach: Strengthening the "water-energy-food" interactions.

## **Training Event Topics**

- T-1. Irrigation and drainage design criteria for arid and humid zones under climate change and extreme events.
- T-2. Design of pipe systems for climate adaptive modernization of irrigation and drainage systems.
- T-3. Efficient use of drainage to prevent rising groundwater levels, erosion of irrigated lands and management of mudflows and floods.
- T-4. Gender and water - the role of women in water and agriculture development.



# REGISTRATION AND FORMAT

## Preliminary program

The Workshop program includes opening and closing ceremonies, thematic and training sessions. Cultural events including an excursion and tours will also be organized.

## Languages

The working languages of the Workshop are English and Russian (simultaneous translation will be provided).

## Participants

About 200 participants are expected, both from the international community and nationally, including representatives of ministries and departments, scientific and industry organizations, as well as representatives of international and non-governmental organizations.

## Registration

Online registration will start from January 1, 2024 through the website of the Workshop [www.tajncid.tj](http://www.tajncid.tj). The "early bird" registration deadline is March 15, 2024.

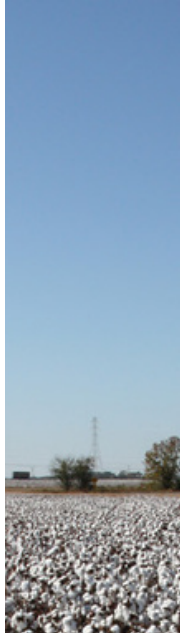
Sl. No.	Category	Registration Fee (USD)	Early Bird Registration Before March 15, 2024 (USD)
<b>Full Registration Details</b>			
1	Member countries	400	350
2	Non-member countries	500	450
3	Young/Retired professionals	200	175
4	Local Delegates	0,0	0,0
5	Accompanying persons	150	100
6	Technical Tours	100	100
7	Exhibitors Registration	3000	2750

# EXCURSIONS AND TOURS



## Nurek Dam

The Nurek Dam is an earth fill embankment dam on the Vakhsh River. At 304 m it is currently the second tallest man-made dam in the world constructed between 1961 and 1980.



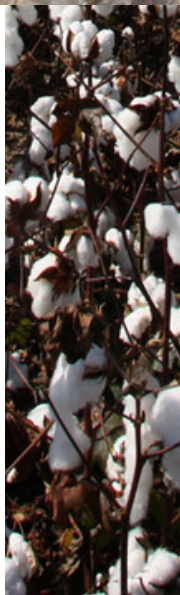
## Modernized Irrigation and Drainage scheme

An official visit to the Irrigation and Drainage scheme of the Hissar zone will be arranged, affording participants a unique opportunity to gain profound insights into the modernized irrigation and drainage infrastructure.



## Hissar Fortress

The ancient city of Hissar is one of the must-visit attractions located about 26 km west of Dushanbe. It is actually an ancient building complex. Most of these ancient buildings were built in the 8th-19th centuries, using stone and clay.





# CALL FOR PAPERS

## General guidelines

The 14th International Drainage Workshop extends an earnest call for scholarly contributions that encompass the spectrum of modernization in irrigation and drainage, with a specific focus on new technologies and strategies for climate change adaptation, and including pumping stations, canal and gravity pipe systems, control technologies and management.

All accepted papers will be published in the event's proceedings, giving recognition to the authors. This helps others learn from their work and experience and builds a helpful network of shared knowledge. Authors of selected papers of particular merit/ interest/ relevance will be invited to present their papers during the workshop. Authors are required to adhere to the guidelines mentioned in <https://tajncid.tj/news/call-for-papers/>

## Schedule for submission of abstract / full papers

- Submission of abstracts (max. 300 words): by 30 Jan 2024
- Notification of acceptance: by 28 Feb 2024
- Submission of full papers (max. 10 pages): by 30 March 2024
- Notification of acceptance of full papers for (i) publication, and/ or (ii) presentation during the workshop: by 30 April 2024

For more information and detailed submission guidelines, kindly visit the official workshop website or contact the Secretariat of NCID Tajikistan

- Website: [www.tajncid.tj](http://www.tajncid.tj)
- Secretariat of NCID Tajikistan contact: [tajncid@bk.ru](mailto:tajncid@bk.ru)



# **ORGANIZERS**

The 14th International Drainage Workshop, with the theme "Modernization of Irrigation and Drainage Systems for Climate Change Adaptation and Sustainable Development," is scheduled to take place from May 30 to June 1, 2024, in Dushanbe. This event is organized under the auspices of the International Commission on Irrigation and Drainage (ICID) and is being hosted by the Secretariat of the Tajikistan National Committee on Irrigation and Drainage (NCID), which operates under the Agency for Land Reclamation and Irrigation of the Government of the Republic of Tajikistan, in collaboration with various development partners.

To ensure the successful execution of the 14th International Drainage Workshop, the Secretariat of Tajikistan NCID has established Steering and Scientific Committees and has engaged the expertise of both international and national consultants.

## **Secretariat of Tajikistan NCID**

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## **Steering and Scientific Committees**

- Dr. Mohamed A. Shehata Wahba - mswahba@gmail.com;
- Dr. Willem F. Vlotman - vlotmanwf@gmail.com;
- Em. Prof. Dr. Ir. Bart Schultz - schultz1@kpnmail.nl;
- Dr. Irene Bondarik - ruscid@mail.ru;
- Dr. Mojtaba Akram - mojtabaakram@gmail.com.

## **Supporting Consultants**

- Mr. Alan Clark - AClark@nhcweb.com;
- Mr. Sharif Mahmudov - mahmudovshz@gmail.com;



## ABOUT TAJIKISTAN



Tajikistan is mountainous and land-locked agro-industrial country with a fast-growing population in 2023 of 10.3 million. It is well endowed with water resources, with an annual water availability of 7,649 m<sup>3</sup>/capita/year. It is drained by two major trans-boundary rivers, the Amu Darya in the south and the Syr Darya in the north.

Despite its abundant water resources, because of the paucity of arable land and the deterioration of its irrigation and drainage systems, Tajikistan has the lowest ratio of irrigated land to population in Central Asia. Nevertheless, agriculture accounts for 20% of the national GDP and 30% of exports. About 51% of the population is engaged in agriculture, and 69% of female employment is in the agricultural sector.



Tajikistan is highly vulnerable to the adverse effects of climate change. Future changes in snowfall, rainfall, and air temperature, with melting of glaciers, is impacting flow in rivers that supply irrigation, hydropower generation, and water supply in Tajikistan and in downstream riparian countries.

At independence in 1991, about 752,000 ha of agricultural land was under productive irrigation and drainage, with nearly three-quarters of that area supplied by pumping water to terraces high above the rivers. Most of the schemes were constructed in the 1950-60s.



# ***GLOBAL WATER INITIATIVES OF TAJIKISTAN***



Water Year 2003

**2003 International Year of Freshwater**



**WATER FOR LIFE  
2005 - 2015**

**2005-2015 International Decade for Action  
"Water for Life"**



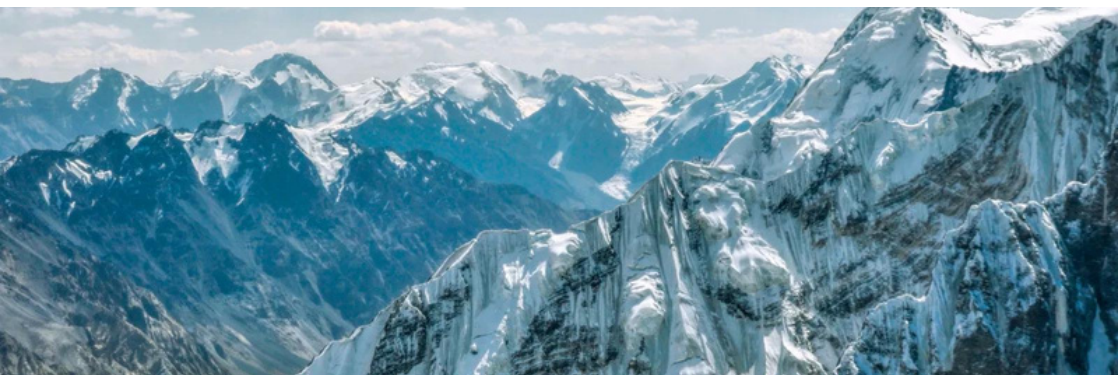
**International Year of  
Water Cooperation**

**2013 International Year of  
Water Cooperation**



**2018-2028 International Decade  
for Action "Water for Sustainable  
Development"**

**2025 International Year of Glacier Conservation**



## ABOUT DUSHANBE



Dushanbe is the capital of Tajikistan, the largest scientific, cultural, political, economic, industrial, and administrative city of the country.

In 2001, Dushanbe was proclaimed «City of Peace» and, in 2009, the capital of the Center of Islamic Culture by the United Nations. The current (2023) metro area population of Dushanbe is 987,000, a 2.6% increase from 2022.



Dushanbe is a beautiful and very green city, located in a foothill zone. While in the city, you will be immediately imbued with the atmosphere of warmth, hospitality, friendliness, and the truly oriental flavor.

Dushanbe is an ancient and at the same time a young city. According to archeologists, it has a history going back over a thousand years. However, documents mention that the village of Dushanbe was founded in 1676 at a crossroads. On Mondays, a large Bazaar would be organized, which is how the village inherited its name «Dushanbe», meaning «Monday». On July 14, 1922, the city was declared the capital of the Tajik Autonomous Soviet Socialist Republic, which in 1929 was transformed into the Tajik Soviet Socialist Republic.



In 1924-1929, the official name of the city was Dushanbe. In 1929, it was renamed Stalinabad in honor of Stalin. In 1961 the historical name of Dushanbe was re-adopted.



# PRACTICAL INFORMATION

## Visa support

To travel to Tajikistan, participants must obtain a visa, with the exception of citizens of those countries that can enter Tajikistan without a visa on the basis of bilateral and multilateral agreements. If a visa is required, the Secretariat of NCID will send a Visa Support Letter after the payment of participation registration fee. Find more information about e-visa through [www.evisa.tj](http://www.evisa.tj).



## Flights

Regular international flights are available to Dushanbe International Airport from the following major cities: Almaty, Dubai, Istanbul, Moscow, New Delhi, Novosibirsk, St. Petersburg, Tashkent, etc. More detailed information on international flights is available on the website of the Dushanbe International Airport at: <http://airport.tj/into/en/>.



## Accommodation

Participants are responsible for the booking of hotel rooms. Expenses related to hotel accommodation should be covered by participants. Information on the hotels in Dushanbe is available online.



## Local transportation

Public transport in Dushanbe includes buses, trolleybuses, mini-buses and taxi. Taxi is widely available in the city and relatively low cost. Transportation of the participants from the hotels “Tajikistan”, “Istiqlol”, “Serena”, “Rumi”, “Hilton” and “Atlas” to the Workshop venue and back will be arranged within a fixed timetable.



## Currency exchange

Official currency in Tajikistan is Somoni (TJS). Information about rates is available on the website of the National Bank of Tajikistan ([www.nbt.tj](http://www.nbt.tj)). Currency exchange offices are available in banks, hotels and at the airport. ATMs are available in most banks, hotels and shopping centers.

A large center pivot irrigation system is shown in a lush green field. The system consists of a long metal structure with multiple wheels and a central pivot point, extending into the distance. The field is vibrant green, and the sky is a clear, light blue. In the background, there are low mountains and a few trees.

# ***WELCOME TO TAJIKSTAN***

For more information please visit  
[www.tajncid.tj](http://www.tajncid.tj)