



10th International Conference on Water and Flood Management

with special focus on

Water and Ecosystem Conservation for Climate Resilience

22-24 February 2025, Dhaka, Bangladesh

Date: June 12, 2024

Muhammad Amirul Haq Bhuiya
Director General
Bangladesh Water Development Board (BWDB)
Pani Bhaban, Level-5, 72 Green Road, Dhaka-1205, Bangladesh

- ১। অংশ (পূর্ব/পশ্চিম/প্রশাসন/অর্থ)/প্রঃ প্রকৌঃ (পরি/মনি)
- * অনুশীলন অবশ্যতির জন্য প্রেরণ করা হলো।
 - * বিধি মোতাবেক ব্যবস্থা নিন।
 - * পত্রের মর্মাসুসারে প্রতিবেদন পেশ করুন।
 - * পরীক্ষা করে পেশ করুন।
 - * তদন্ত করে মতামত সহ প্রতিবেদন দিন।
 - * সভায় যোগদান করুন এবং কার্যবিবরণী অবহিত করুন
 - * আলাপ করুন

মহাপরিচালক

Subject: Invitation to Partner with the 10th International Conference on Water and Flood Management (ICWFM-2025)

Dear Sir,

Greetings.

The Institute of Water and Flood Management (IWFM) of Bangladesh University of Engineering and Technology has been biennially organizing the International Conference on Water and Flood Management (ICWFM) since 2007. We are sincerely grateful for your organization's partnership in the previous ICWFM event.

On behalf of the Organizing Committee for the 10th International Conference on Water and Flood Management (ICWFM-2025), I am pleased to invite your organization to partner with ICWFM-2025. I am delighted to inform you that the ICWFM-2025 will be held from February 22-24, 2025, at the CIRDAP International Conference Center (CICC) in Dhaka, Bangladesh.

As an Organizing Partner, we seek your support and cooperation in making the conference a success through the dissemination of the conference announcement and the participation of your colleagues in ICWFM-2025. In this regard, I would appreciate it if you could send us your consent and nominate one person (not below the rank of Executive Engineer) for the Organizing Committee from your esteemed organization by June 23, 2024.

I am enclosing a flyer for ICWFM-2023 and a Concept Note for ICWFM-2025 for your reference.

I eagerly look forward to hearing from you soon.

Sincerely,

(M/t/s/an)

Dr. G M Tarekul Islam
Professor and Chair, ICWFM 2025
Institute of Water and Flood Management (IWFM)
Bangladesh University of Engineering and Technology (BUET)
Dhaka-1000, Bangladesh.
Telephone: +8801748293411 (mobile), 02223365601 (office)
e-mail: icwfm@iwfm.buet.ac.bd

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পরিঃ/১/৩/প্র. মূল্য.	১. যোগাযোগ/অতি প্রেরণ
মুদ্রা প্রদান	২. প্রকাশ দিন
উপ-পরিচালক প্রকৌশলী	৩. নথিতে উপস্থাপন করুন
নির্বাহী প্রকৌশলী (সংসদ-১/টেক স্ট্যাডি-২/ইজি.-৩/ইজি.-৪/নেগো-৫)	৪. আলোচনা করুন
উপ-পরিচালক (প্রশাসন)	৫. নথিভািত করুন
উপ-পরিচালক (কৃষি/পরিবেশ ও বন/অর্থনীতি)	৬. সভায় যোগদান করুন
উপ-বিভাগীয় প্রকৌশলী (১/২/৩)	৭. মতামত দিন
সহকারী প্রধান (অর্থনীতি/পরি. ও বন/মৃত্তিকা/মৎস্য/সামাজিক)	৮. প্রতিবেদন পেশ করুন
সহকারী প্রকৌশলী	
শিএ	

প্রধান প্রকৌশলী (পূর্ব) পরিকল্পনা

BWDB- Website- এর upload
প্রকৌশলী কর্তৃক স্বাক্ষর
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(ড. শ্যামল চন্দ্র দাস)
অতিঃ প্রধান প্রকৌশলী (পূর্ব) পরিকল্পনা
বাণ্ডিবা, ঢাকা।

Conference Secretariat

Background and Purpose

The International Conference on Water and Flood Management (ICWFM) has been held biennially since 2007 by the Institute of Water and Flood Management (IWFM) of Bangladesh University of Engineering and Technology (BUET) and ICWFM 2023 is the ninth event. Water management in general, and flood management in particular, is an interdisciplinary field that requires integrated knowledge from diverse fields such as hydrology, hydraulics, morphology, atmospheric science, climate, environmental pollution, ecosystem, agriculture, disaster, vulnerability, risk, gender, livelihood, and poverty. As physical and socioeconomic risks change as a result of climate change and anthropogenic interventions, integrated approaches to analyzing these processes and their interactions, as well as incorporating nature-based solutions, are gaining traction. This conference aims to serve as a common platform for bringing together the most recent developments in the aforementioned fields.

The central theme of ICWFM-2023 is 'Climate Extremes and Resilient Development'. In recent years, the world has witnessed unprecedented extreme events. Cherrapunji (India) received its third highest rainfall in 122 years in 24 hours in 2022, with floods submerging nearly 80-90% of north-eastern districts of Bangladesh. The 2022 drought in Europe appeared to be the worst drought in the last 500 years. Extreme events are occurring more frequently and therefore, it is high time the world took a closer look at extreme events and incorporate appropriate management measures into planning efforts. We truly think that our hard and soft development strategies should be robust enough to withstand these climatic extremes. With this expectation, papers are invited from the following themes:

Themes

Hydrometeorological Hazards and Risk

- Trends in extreme climatic events
- Hydrometeorological forecasting and warning
- Vulnerability to natural hazards and risk
- Resilience against water-related hazards and risk
- Harmonizing autonomous and planned adaptations
- Transformative adaptation for climate change
- Forecast based anticipatory actions

Floods and Drainage

- Flood damage mitigation and resilience
- Urban flooding and storm-water management
- Waterlogging and drainage management
- Integrated approaches to flood management
- Nature-based solutions in flood risk management

Rivers, Coasts, Estuaries and Deltas

- River dynamics and restoration
- Hydro-morphology and bank erosion
- Riverine, coastal and estuarine processes
- Riverine and coastal erosion-sedimentation
- Storm surge and tidal flooding
- Nature-based solutions for coastal protection
- Systems approach towards managing coastal river-floodplain systems

Water Infrastructure and Resilient Development

- Sustainable environment and infrastructure development
- Climate-resilient infrastructure
- Landscape modification and flow regime changes
- Shore protection, port structure and navigation
- Hazard/disaster resilient infrastructure
- Integrating grey, green and blue infrastructure
- Blue economy

Water and Livelihood Security

- Water security risks
- Water conservation, water use efficiency and productivity
- Agricultural water management
- Sustainable fisheries and water management
- Water, Sanitation and Hygiene
- Water entrepreneurship
- Gender in water management practices
- Participatory and adaptive approaches to water management
- Sustainable livelihoods and livelihood security
- Integrated assessment of social-ecological systems (SES) for sustainable livelihoods

Ecosystems and Environment

- Ecosystem services and functions
- Contamination of freshwater resources
- Water pollution and ecosystem degradation
- Management of aquatic habitats
- Sustainable use of floodplain and coastal resources
- Water-Energy Nexus for sustainable development

Water Governance

- Mainstreaming Climate Change Adaptation (CCA), Sustainable Development Goals (SDGs) and Disaster Risk Reduction (DRR) in development planning
- International water laws, treaties, and water rights
- Transboundary water conflicts and opportunities for cooperation in common/mutual interests
- Institutional integration for transboundary water management
- Basin wide management of transboundary rivers

Panel and Special Sessions (Closed)

"Panel and special sessions" are planned on emerging and relevant topics relevant to the conference themes. Interested participants are requested to contact the Conference Secretariat for further information

Dates and Venue

The 9th International Conference on Water and Flood Management (ICWFM-2023) has been scheduled to take place at the CIRDP International Conference Center (CICC) in Dhaka, Bangladesh from October 14th to 16th, 2023. CICC is a multi-purpose convention facility located at Tophkhana Road, Dhaka. Detailed instructions will be announced on the ICWFM-2023

Website - <http://icwfm2023.inbo/>

Official language

The official language of the conference is English

Extended Abstract Submission and Publication

Extended abstracts (maximum 800 words) on the conference topics are invited from interested authors. The extended abstract should be submitted by 31st May 2023. The detailed procedure of abstract submission is available on the conference website. An individual can be the lead author of a maximum of two papers. Notification of acceptance of abstracts will be sent by 10th July 2023. Pre-conference proceedings will be published based on the accepted abstracts of the registered authors. Selected papers will be peer reviewed and published in Progress in Disaster Science (Elsevier) journal and as Book Chapters of Conference Proceedings (Springer). The post-conference proceedings from the ICWFM-2021 was published by Springer International. It is available in this link - <https://link.springer.com/book/10.1007/978-3-030-95722-3>.

Important Dates

- 01 April 2023 Abstract submission opens
- 31 May 2023 Deadline for extended abstract submission
- 10 July 2023 Notification of abstract acceptance
- 15 July 2023 Registration begins
- 16 August 2023 Deadline for conference registration

Registration Fees for Authors and Participants

- Authors and Participants (Non-SAARC Countries) USD 400*
- Authors and Participants (Non-SAARC Countries - Students) USD 200*
- Authors and Participants (SAARC Countries) USD 200*
- Local Authors and Participants BDT 3500*
- Local Authors (Students) BDT 1500*

Bangladeshi citizens having full-time affiliations (as students/employees) abroad will not qualify as local participants.

* excluding technical/field visit

Method of Registration and Payment

Authors of accepted abstracts and interested participants will be able to do registration and make payment using the online platform hosted at ICWFM-2023 website. Registered authors and participants will be notified through email. Besides, authors and participants can make payments via direct bank transfer. Please contact conference secretariat for details.

* Please follow detailed instructions provided at the ICWFM-2023 website to complete the registration process.

Technical Field Visit

Date: 17 October 2023
Please check website for details



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Prof. Steven Goodbred, Vanderbilt University, USA

10th International Conference on Water and Flood Management (ICWFM-2025)

Central Theme: Water and Ecosystem Conservation for Climate Resilience

Background and Purposes

The International Conference on Water and Flood Management (ICWFM) has been held biennially since 2007 by the Institute of Water and Flood Management (IWFM) of Bangladesh University of Engineering and Technology (BUET), and ICWFM-2025 is the tenth event. Water management in general, and flood management in particular, is an interdisciplinary field that requires integrated knowledge from diverse fields such as hydrology, hydraulics, morphology, atmospheric science, climate, environmental pollution, ecosystem, agriculture, disaster, vulnerability, risk, gender, livelihood, and poverty. As physical and socioeconomic risks continue to change and environmental degradation becomes increasingly apparent because of climate change and anthropogenic interventions, integrated approaches to analyzing these processes and their interactions are increasingly gaining traction in order to develop and implement comprehensive and sustainable strategies to mitigate and adapt to the impacts.

This conference aims to serve as a common platform for delving into the aforementioned issues through a holistic lens. The central theme of ICWFM-2025 is set as **"Water and Ecosystem Conservation for Climate Resilience"**. As echoed in international efforts, such as the UN Decade on Ecosystem Restoration, conserving and restoring water and ecosystems, as a holistic approach, have crucial roles in combating climate change, reversing environmental degradation, enhancing biodiversity, and fostering resilience. Afforestation and reforestation (including mangroves), restoring wetlands and river-floodplain connectivity, and sustainable agricultural practices provide multiple ecosystem services and synergistic benefits, including carbon sequestration, rejuvenation of fisheries and other ecosystems, buffering flood and storm surge impacts, and reducing saline intrusion and coastal erosion. Besides, there are many other ecological, cultural and socio-economic benefits that contribute to enhanced livelihood and human wellbeing, such as the provision of food, energy and clean water, support to livelihoods and biodiversity, and sites of spiritual and cultural importance. It is now high time we took a closer look at how we can integrate conservation and restoration of water and ecosystems into appropriate management measures and thus enhance climate resilience.

Themes

Hydrometeorological Hazards and Risk

- Vulnerability and resilience in relation to water-related hazards
- Integrated approaches to hazard and risk management
- Disaster risk assessment and decision support systems
- Nature-based solutions in disaster risk management
- Impact-based forecasting and anticipatory actions
- Web-based information systems for productivity and resource management
- Trends in extreme climatic events
- Climate change impacts on hydrology and water resources
- Harmonizing autonomous and planned risk reduction and adaptation strategies
- Transformative adaptation and climate resilient development

Rivers, Coasts, Estuaries and Deltas

- River dynamics and restoration
- Hydro-morphology and coastal erosion: measurements, simulation and management.
- Riverine, coastal and estuarine processes
- Coastal and estuarine water quality and nutrient loads: implications for ecosystem
- Riverine and coastal hazards: erosion, sedimentation, salinization, storm surge, and fluvio-tidal flooding
- Nature-based solutions for coastal protection
- Systems approach in managing coastal river-floodplain systems

Water Infrastructure and Resilient Development

- Landscape modification and flow regime changes
- Sustainable environment and infrastructure development
- Climate-resilient infrastructure
- Challenges and constraints in asset management and infrastructure maintenance
- Shore protection, port structure and navigation
- Integrating grey, green and blue infrastructure
- Blue economy
- Restoration and rehabilitation of watercourses, wetlands, river-floodplain connectivity

Water and Livelihood Security

- Water security risks
- Water conservation, water use efficiency and productivity
- Management of surface water and groundwater
- Agricultural water management
- Sustainable fisheries and water management
- Water, Sanitation and Hygiene
- Water entrepreneurship
- Gender in water management practices
- Participatory and adaptive approaches to water management
- Sustainable livelihoods and livelihood security
- Integrated assessment of social-ecological systems for sustainable livelihoods

Ecosystems and Environment

- Water restoration and sustainable use
- Water pollution and ecosystem degradation
- Water environment protection and management of aquatic habitats
- Functions and values of delta/ coastal ecosystems and their trends
- Sustainable use of floodplain and coastal resources
- Wetlands restoration and biodiversity
- Co-benefits of conservation and restoration of water and ecosystem
- Water-Energy-Food (WEF) Nexus for sustainable development
- Ecosystem services, livelihood, and human well-being

Water Governance

- Mainstreaming Climate Change Adaptation (CCA), Sustainable Development Goals (SDGs) and Disaster Risk Reduction (DRR) in development planning
- Joint achievements of SDG, DRR and CCA goals and targets
- Multi-sectoral and multi-objective water resources/ delta planning
- Prioritizing water investments and interventions
- Integrated project/ intervention appraisal framework
- SDG synergies and trade-offs
- Joint achievements of SDG, DRR and CCA goals and targets
- Transboundary water conflicts and opportunities for cooperation in common/ mutual interests
- Institutional integration for transboundary water management
- Basin wide management of transboundary rivers

Date of the conference: 22-24 February 2025

Venue: Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP), Dhaka, Bangladesh.