

AWaRe 2025



First International Conference on Advances in Water Resources 10 – 12th June 2025

Jointly Organized by

Department of Civil Engineering & Centre of Excellence in Water
Management

Maulana Azad National Institute of Technology (MANIT) Bhopal

In association with

Central Water Commission (CWC)

Bhopal, INDIA

<http://conf.manit.ac.in/aware2025>



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About the Conference.

The 1st International Conference on **Advances in Water Resources**, organized by the Department of Civil Engineering and the Centre of Excellence in Water Management at Maulana Azad National Institute of Technology, Bhopal, India, focused on the theme of “**Transforming Water Resources Engineering for a Sustainable Future**”.

Advancements in Water Resources are vital for promoting sustainable development, as they prioritize optimizing water management systems to minimize environmental impact. By integrating innovative technologies and methodologies—such as smart water systems and advanced modeling techniques—engineers can enhance water conservation, improve quality, and ensure equitable distribution. This approach not only supports the sustainable use of water resources but also strengthens ecosystem resilience, climate adaptability, and overall community well-being. Ultimately, these innovations pave the way for a more sustainable future, harmonizing human needs with environmental stewardship.

The three-day conference will bring together experts from academia and industry to discuss current innovations and urgent needs of the hour. It will be an excellent platform for sharing ideas and exploring potential collaborations to develop sustainable water management practices. MANIT Bhopal warmly invites you to join this event and engage with the future aspirations of water resource experts from India and around the world.

About MANIT.



Maulana Azad National Institute of Technology (MANIT) Bhopal, formerly known as Maulana Azad College of Technology (MACT) Bhopal was established in the year 1960 and subsequently upgraded to National Institute of Technology (NIT) in 2002. The Institute is successfully meeting the objective of producing skilled Technocrats of the highest quality who can take up the challenges of the industries and Research organizations of the country. The institute is located in the heart of Bhopal City (the capital of Madhya Pradesh). Bhopal is well known worldwide as the city of lakes. It is well connected to various parts of the country by road, rail, and air. The Institute is about 8 km from Bhopal railway station and 20 km from Raja Bhoj Airport.

About The Department and Water Centre.

The Department of Civil Engineering is one of the oldest departments of the Institute, started in 1960. It offers B.Tech. (Civil Engineering) degrees 7 M.Tech. degrees, and Ph.D. programs. The Centre of Excellence in Water Management started recently and offers 1 M.Tech. program and Ph.D. programs. The department has 35 faculty, and the centre has 3 faculty with 7 associated faculty specialized in water resources from civil engineering who are highly qualified and dedicated and strive to produce competent professionals who are abreast with the latest technology and are equipped with enterprising skills necessary for a designer and also for a site engineer. The centre provides quality education and research focussed on water resources engineering & management, Since 2021, the centre offers Post-Graduate program on “Water Resources Engineering and Management” to facilitate the culture of developing unique ideas in water resource management

Both the Department and Centre of Excellence in Water Management include multiple laboratories for Hydraulics, Hydrology, and Climate Study. These laboratories are equipped with advanced instruments for modern methods of experimentation and visualization.



Our Philosophy.

“MANIT looks forward to becoming a global centre for technical and professional knowledge”

“To produce technical professionals abreast with competence, logical mindset, moral and ethical values and inner strength synchronous with the futuristic requirement of global business so as to strengthen the national economy “

The Organizing Committee.



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Themes of the Conference



Innovations in Hydraulics

- Advancements in Physical model study
- Urban Hydraulics
- Hydraulic structures
- Advancement in Instrumentation technology
- Computational fluid dynamics
- Hydraulics of aerated flow
- Environmental and Eco- hydraulics
- Coastal Hydraulics and offshore structures
- Advanced Hydraulic Systems

Sustainable River Engineering and River Training

- Sediment Transport and Bathymetrical variations
- Morphology of rivers and morphodynamics
- Trans-boundary water sharing
- Nature-based Solutions for Large Rivers and lakes
- Hyper-concentrated flow
- Sustainable Sediment Load Management

Catchment Hydrology and Integrated Watershed Management

- Catchment hydrology
- Hydrologic modeling
- Flood forecasting and protection measures
- Climate Modelling and climate change mitigations
- Drought assessment and mitigation
- Integrated watershed management
- Disaster risk reduction
- Water accounting

Subsurface Water

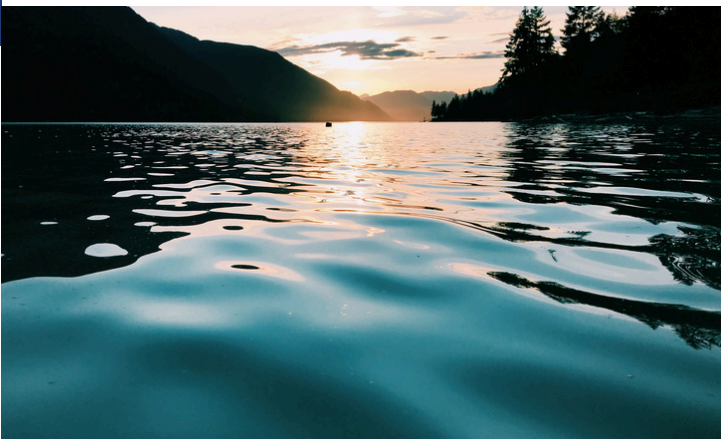
- Groundwater resource assessment
- Modelling of flow and solute transport
- Planning of groundwater development
- Forensic groundwater hydrology
- Seawater intrusion
- Groundwater resilience in urbanizing watersheds
- Smart aquifer recharge and management
- Carbon sequestration and groundwater impacts
- Isotope hydrology

Hydro-informatics and Advanced Data Analytics

- Management of large databases
- Pre and post modelling data processing
- Data mining and data-driven modelling
- Geospatial applications
- Cyber infrastructure in water
- Data-Driven Methods and Machine Learning Techniques
- AI-Driven Tools for Analytical Insights and Decision Support

Green and Blue Nexus

- Water reclamation and reuse
- Renewable energy
- Blue economy
- Resilience and sustainable management of coastal waters



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Registration

Category	Early Bird Registration (before 30th April 2025)	Standard Registration (before 5th June 2025)	Onsite Registration
Research Scholars	Rs. 2000	Rs. 3000	Rs. 4000
Foreign Delegates / Authors	\$200	\$250	\$300
Academicians / Scientists / Professional Researchers	Rs. 3000	Rs. 5000	Rs. 7000
Industry Personnel from Public and Private Enterprises	Rs. 4000	Rs. 6000	Rs. 8000

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BANK DETAILS FOR TRANSACTIONS:

Bank Name: State Bank of India
Branch Name: MANIT, Bhopal
Account Name: Director, MANIT Bhopal
Account No.: 10020150107,
IFSC Code: SBIN0001608

Mark your calendars!

Full Paper Kick-off: **1st December 2024**

Full Paper Farewell: ~~15th March 2025~~
15th April 2025

Full Paper Acceptance: **30th April 2025**

Early Bird Reg.: **1st April - 30th April 2025**

Standard Reg: **1st May - 5th June 2025**

Reg. Deadline: **5th June 2025**

Paper Submission

Submit your paper here !!!

<https://cmt3.research.microsoft.com/AWARE2025>

Publication Partner

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Places to Visit Nearby!!

Many places of tourism importance are available in and around Bhopal and surrounding Bhopal in terms of tourism. Bhopal is known as the city of lakes, If you would like to visit nearby tourist places near Bhopal Bhojpur, Bheembetika, Sanchi, Islamnagar, Samasgarh, etc. is worth a visit. The city is a blend of old and modern architecture. There are many places for tourists in Bhopal like Upper Lake, Lower Lake, Birla Temple, Van Vihar, Bharat Bhavan, Indira Gandhi National Museum of Man, Manu Bhaun ki tekari, cave temples, the Taj-ul-Masjid, Jama Masjid, Gauhar Mahal, Shaukat Mahal, Regional Science Centre, Fish aquarium, Kerwa dam etc.



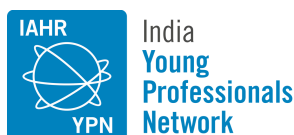
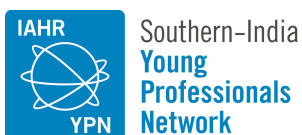
Our Associate Partner

Central Water Commission (CWC)

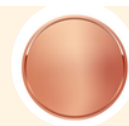
Central Water Commission is a premier Technical Organization of India in the field of Water Resources and is presently functioning as an attached office of the Ministry of Jal Shakti, Department of Water Resources, River Development and Ganga Rejuvenation, Government of India. The Commission is entrusted with the general responsibilities of initiating, coordinating and furthering in consultation of the State Governments concerned, schemes for control, conservation and utilization of water resources throughout the country, for purpose of Flood Control, Irrigation, Navigation, Drinking Water Supply and Water Power Development. It also undertakes the investigations, construction and execution of any such schemes as required



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Branch Name: MANIT, Bhopal
Account Name: Director, MANIT Bhopal
Account No.: 10020150107, IFSC Code:
SBIN0001608

<http://conf.manit.ac.in/aware2025>

MANIT and the Conference Organising Committee invite you to take part in the 1st International Conference on Advances in Water Resources in Bhopal, India from 18 to 20 June 2025. Themed “Transforming Water Resources Engineering for a Sustainable Future”, the Conference will focus on the importance of advancements in water engineering toward meeting a sustainable future.

The organizing committee of the International conference **AWaRe 2025** looks forward to your contributions and meeting you all in June 2025 in Bhopal, India.



AWaRe 2025



<http://conf.manit.ac.in/aware2025>



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