National Conference on

"Water, Earth and Ecosystems: Science and Solutions in a Changing Climate"

JANUARY 7-8, 2027



ORGANIZED BY

CSIR-National Environmental Engineering Research Institute (NEERI), Nagpur – 440020, Maharashtra, India, Ministry of S&T, GoI, New Delhi

INTRODUCTION

Water systems, subsurface processes, and ecosystems are intrinsically interconnected and play a vital role in sustaining environmental balance and human well-being. However, rapid climate change, increasing anthropogenic pressures, and urbanization are significantly altering these interactions, leading to challenges in water security, ecosystem resilience, and sustainable resource management.

This National Conference on "Water, Earth and Ecosystems: Science and Solutions in a Changing Climate" aims to provide a multidisciplinary platform to explore the complex linkages between hydrological processes, subsurface dynamics, and ecological systems. The conference will bring together researchers, practitioners, policymakers, and industry experts to share innovative research, advanced methodologies, and practical solutions.

The conference focuses on fostering collaboration, promoting integrated approaches, and advancing scientific understanding to address emerging challenges under a changing climate. Through keynote lectures, technical sessions, and interactive discussions, the event will contribute towards developing sustainable and climate-resilient strategies for water and ecosystem management.

WHAT IS THIS EVENT?

This event is a National Conference on "Water, Earth and Ecosystems: Science and Solutions in a Changing Climate", designed as a comprehensive platform to address the growing challenges of water sustainability in the context of climate change.

Organized by the CSIR-National Environmental Engineering Research Institute, Nagpur, the conference brings together a diverse community of scientists, academicians, policymakers, industry professionals, and early-career researchers working across hydrology, geophysics, environmental science, and ecology.

At its core, the conference focuses on understanding the interconnected nature of surface water, subsurface processes, and ecosystems. These components form a dynamic system that regulates water availability, supports biodiversity, and sustains human livelihoods. However, increasing climate variability, land-use changes, and anthropogenic pressures are disrupting these linkages, making it essential to adopt integrated and multidisciplinary approaches.

This conference serves as a knowledge-sharing and collaboration platform, offering:

- Keynote lectures by leading national experts
- Technical sessions on emerging research and methodologies
- Panel discussions addressing policy and implementation challenges
- Poster presentations for showcasing innovative work
- Opportunities for industry–academia interaction and collaboration

Participants will engage in discussions on:

- Climate change impacts on water systems and ecosystems
- Advances in hydrogeophysics and subsurface characterization
- Ecohydrological processes and ecosystem resilience
- Nature-based solutions and sustainable water management
- Application of remote sensing, GIS, and data-driven approaches.

The event aims to bridge the gap between science, policy, and practice, enabling stakeholders to co-develop solutions for water security, environmental sustainability, and climate resilience.

Ultimately, this conference is not just a scientific gathering, but a strategic initiative to foster integrated thinking and actionable solutions for managing water and ecosystems in a rapidly changing world.

WHAT IS THE PURPOSE OF THIS CONFERENCE?

The primary purpose of this National Conference is to advance integrated understanding and solutions for water security by bridging the interactions between surface water, subsurface processes, and ecosystems under the pressures of a changing climate.

KEY OBJECTIVES

1. **Promote Interdisciplinary Integration**
   To bring together expertise from hydrology, geophysics, and ecohydrology for a unified understanding of water–subsurface–ecosystem linkages.
2. **Address Climate Change Impacts**
   To examine how climate variability and extremes are affecting water availability, groundwater systems, and ecosystem health.
3. **Foster Knowledge Exchange**
   To provide a platform for sharing cutting-edge research, innovative tools, and best practices among researchers, practitioners, and policymakers.
4. **Encourage Technological Innovation**
   To highlight the role of remote sensing, geophysical techniques, data analytics, and modeling in improving water resource management.
5. **Support Sustainable & Nature-Based Solutions**
   To explore ecosystem-based approaches and green infrastructure for enhancing resilience and long-term sustainability.
6. **Strengthen Collaboration & Networking**
   To facilitate partnerships between academia, government, and industry for addressing real-world challenges.
7. **Inform Policy & Decision-Making**
   To generate actionable insights that can guide policies related to water

security, climate adaptation, and environmental protection.

Conference Themes

- Water Resources & Hydrology
- Geophysics & Subsurface Processes
- Ecohydrology & Ecosystem Dynamics
- Climate Change Impacts on Water & Ecosystems
- Remote Sensing & GIS Applications
- Hydrological Modeling & Hydroinformatics
- Nature-Based Solutions & Green Infrastructure
- Floods, Droughts, Extreme Events & Natural disasters
- Water Quality, Pollution Assessment and Treatment
- AI/ML & Data-Driven Approaches in Water Systems
- Urban Hydrology & Water Security
- Risk, Vulnerability & Resilience Assessment
- Policy, Governance & Sustainable Water Management

Who will attend?

This National Conference will bring together a diverse and interdisciplinary group of participants, including researchers, academicians, policymakers, industry professionals, environmental practitioners, and students working in the fields of water resources, geophysics, ecohydrology, and climate science. Experts from universities, research institutions, and leading organizations will participate alongside representatives from government agencies involved in water management, environmental regulation, and climate policy. The event will also attract professionals from industry sectors such as water infrastructure, environmental consulting, geophysical services, and remote sensing, as well as NGOs and practitioners engaged in ecosystem restoration and sustainability initiatives. Additionally, students and early-career researchers will have the opportunity to engage with experts, present their work, and build professional networks, making the conference a comprehensive platform for knowledge exchange, collaboration, and innovation.

Dates and Venue

The conference will be held during January 7-8, 2027 at CSIR-National Environmental Engineering Research Institute, Nehru Marg, Nagpur - 440020, India. The campus is situated on NH-7. Nagpur is well connected by road, rail and air to most important cities.

Registration Details

Category	Fees
Students	INR 3000/-
Academicians	INR 6000/-
Industry Participants	INR 6000/-

Important Dates

- **Abstract Submission Deadline:** 30 November 2026
- **Acceptance Notification:** 10 December 2026
- **Early Registration Deadline:** 15 December 2026
- **Conference Dates:** 7-8, January 2027.

The registration fee may be made through RTGS as per following Bank details.

1.	The Director, NEERI, Nagpur
2.	State Bank of India (SBI), NEERI Branch, Nagpur
3.	A/c. No. 30266513766
4.	IFS Code No. SBIN0004224

The filled registration form along with payment proof can be sent to wtmd.neeri@gmail.com

Or

Registration can also be done through link https://forms.gle/apR1pjmSLode7h9fA

Sponsorship

The proposed conference is a prestigious event to be attended by researchers, academics, regulators, policy makers and important stake holders like industries. It provides ample opportunity for industries, consultants, and organizations, including technical institutes, to interact with and publicize their services and products. The sponsorships to the conference are invited as per the tariff given below:

Platinum: Rs.2,00,000/- (4 free delegates)
Diamond: Rs 1,50,000/- (3 free delegates)
Gold : Rs. 1,00,000/- (2 free delegates)
Silver : Rs. 50,000/- (1 free delegate)

Organizing Committee

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Registration Form

National Conference on

"Water, Earth and Ecosystems: Science and Solutions in a Changing Climate"

January 7-8, 2027

CSIR-NEERI, Nagpur

Full Name:

Designation:

Institution/Organization:

Address for correspondence:

Telephone No. (O)

(R)

(M)

(Email):

Date:

Place:

Signature