

2nd ROORKEE WATER CONCLAVE

March 02 – 04, 2022

Water Security for Sustainable Development



*Indian Institute of Technology Roorkee
Roorkee*

Organized by



*National Institute of Hydrology
Roorkee*

India

Jointly present the 2nd Roorkee Water Conclave 2022

“Water Security for Sustainable Development” aims to provide a platform for academicians, researchers, practitioners, stakeholders, students, engineers and industry professionals to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the field of the water security.

Background

Indian Institute of Technology Roorkee and National Institute of Hydrology Roorkee jointly decided to organize regular international conference every two years in the area of various facets of water to be known as Roorkee Water Conclave (RWC). The first water conclave was organized broadly focusing on "Hydrological Aspects of Climate Change" during February 26-28, 2020. The present water conclave is being organized broadly focusing on "Water Security for Sustainable Development" during March 2-4, 2022.

Water security is emerging as a primary tenet in sustainability debate across the globe, as water forms the fundamental link between the climate, the human society, and the natural environment. Realizing water security is the biggest challenge for researchers and policy makers in the 21st century, particularly with growing concerns of climate change impacts on already stressed water systems. Population growth, unconstrained water use, and shocks from climate change induced water-related disasters pose increasing risks on water resources. In response to the growing risks the 2030 Agenda for Sustainable Development Goals (SDGs) include a dedicated goal for securing water resources (SDG 6) with the aim to ensure availability and sustainable management of water and sanitation for all in order to maintain safe access to water, address water scarcity, sanitation, and risks to sustainable use of water.

Understanding water security and its multiple facets underpins sustainable water resource management and key component of social development. Detailed and accurate information that can enrich understanding of the causes and determinants of water security in environmental, natural and societal aspects including climate, environment, food, energy, economy, and public health is needed to guide decision making around potential adaptation and mitigation solutions. Keeping in view, the importance of Water Security for Sustainable Development, it is necessary to identify the key issues and challenges, to promote enactment of SDGs globally.

Science and scientific research plays a key role in achieving water security goals in an integrated and equitable manner and guide policies. The Roorkee Water Conclave, 2022 strives to assimilate the learnings from different disciplines that cover various facets of water security. The conference also aims to accelerate interaction among various stakeholders.

Looking to the aforementioned aspects, the themes and sub-themes of the conference are as follows:

A. Education, Practices and Training

- Water Education and Practices: Reappraisal and Future Directions
- International Cooperation

B. Water Resources Management

- Water Resources Management-Surface and Ground
- River Hydrodynamics
- Sustainable Hydraulic Structures
- Water Conservation- Traditional and Modern
- Geo-spatial Technology, IOT and Tools

C. Water Quality and Health

- Water Quality Management
- Urban and Industrial Water Management
- Digital Water

D. Hydrology and Climate Change

- Water and Climate Change
- Isotope and Paleo-hydrology

E. Policy and Governance

- Water Governance-Challenges and Best Practices
- Gender Mainstreaming
- Managing Trans-boundary Water (aquifers, lakes and river basins)
- Water Conflicts, Resolution and Stakeholder Participation
- Water and Economics

F. Water related Disaster and Management

- Water related Disasters and Management (floods and drought)

G. Energy, Food and Agriculture

- Water-Energy-Food Nexus
- Agriculture-Water use efficiency
- Hydropower

H. Eco-Hydrology

- River Rejuvenation-Challenges, Strategies and Experiences
- Services of Waterbodies
- Environmental Flows

Sub-themes mentioned under a group may also fall under other groups

Call for Abstract

Abstracts of papers (not exceeding 150 words) on the above session themes of the Conclave are invited latest by ~~July 31, 2021~~ ~~September 30, 2021~~ **15 October, 2021** and the acceptance will be notified by ~~September 30, 2021~~ **October 31, 2021**. While submitting the abstract the authors are requested to indicate the sub-theme of the conference wherein their paper may be considered. The authors of the accepted abstracts are requested to submit the full-length papers latest by ~~December 31, 2021~~ **December 15, 2021**. The abstract of the papers can be uploaded through <https://easychair.org/conferences/?conf=rwc2022>.

Publication

The selected technical papers presented in the technical sessions of the conclave are being planned to be printed by reputed International journals/publishers. The keynote papers presented during the RWC 2020 has been accepted for publication as a book on "Hydrological Aspects of Climate Change" by Springer Nature.

Registration Fees and Mode of Payment

The Registration fee for the conference will be INR 4,000 (plus GST) per Indian delegate and INR 1000 (plus GST) for Indian student and, US\$ 100 per foreign delegate and US\$ 40 for foreign student. The fee may be paid in the form of Demand Draft drawn in favour of Dean (SRIC), IIT Roorkee payable at Roorkee. Alternatively, it can be paid by direct transfer through the Link for online Conference fee collection available at <http://src.iitr.ernet.in/>

Date & Conference Venue

The conference will be held at Indian Institute of Technology Roorkee & National Institute of Hydrology Roorkee, Uttarakhand, India, during March 2-4, 2022.

Accommodation

Accommodation will be provided on first come first basis in the guest houses, hostels within the campus on payment basis. Alternatively, a range of hotels are available in and around Roorkee.

How to Reach Roorkee

Roorkee is well connected to New Delhi by rail and road. Some trains which are convenient for travelling between New Delhi and Roorkee are New Delhi-Dehradun-New Delhi Shatabdi Express and Dehradun-New Delhi-Dehradun Janshatabdi Express. National Highway 58 from New Delhi to the higher reaches of the Himalayas passes via Roorkee. Roorkee is, therefore, well connected to all the major cities in the region by road. There are frequent bus services to this place from the Maharana Pratap Inter State Bus Terminal (Kashmere Gate), New Delhi. Nearest airport to Roorkee is Dehradun's Jolly Grant airport which has Air India, Spice Jet and Jet Airways services from New Delhi. However preferable airport nearest from Roorkee is the New Delhi International Airport which is about 200 km away.

Sponsorship Opportunities

The conference provides a unique opportunity for sponsoring organizations to promote their products/services to the focused international and national audiences/stake holders besides having an excellent opportunity to interact with engineers/scientists/ academicians/managers.

The sponsorship can be offered in any one of the following categories:

Category	Platinum	Golden	Silver	Supporter
Sponsorship Amount (plus GST @18%)	USD 15,000 INR 10,00,000	USD 10,000 INR 7,50,000	USD 7,500 INR 5,00,000	USD 5,000 INR 3,00,000
Full registration for delegates	10	7	5	3
Company name and logo on conference web page and proceedings volume	✓	✓	✓	✓
Promotions banner, stationary items etc.	✓	✓	✓	✗
A full page advertisement in the Post Session Proceedings	✓	✓	✓	✓
10 minutes time slot for technical presentation in the session of your choice (except inaugural, plenary & valedictory sessions)	✓	✓	✓	✓
Distribution of Literature/Brochures.	✓	✓	✓	✗

Exhibition

An exhibition supporting the theme and showcasing the technologies, new development and available solutions shall be held. Exhibitors shall be provided space in modular format of 3m(L)x3m(W)x3m(H) with a charge of USD 1500 USD/INR 100,000 (plus GST) for each module and shall be provided free hosting of exhibitor's profile on conclave web portal, complimentary registration for 2 persons and their names with logo on conference programme booklet.

About IIT Roorkee

Indian Institute of Technology Roorkee (IITR) is the successor of University of Roorkee and thus, it is the oldest technical institution of the country established as the Roorkee College of Engineering in 1847 and rechristened as Thomason College of Civil Engineering in 1857. It was elevated to the first Technical University of Independent India on November 25, 1949. In the year 2001, it was declared as the Institute of national importance and converted into Indian Institute of Technology Roorkee (IITR) on September 21, 2001.

About NIH Roorkee

National Institute of Hydrology (NIH) is a premier research and development organization in the area of hydrology and water resources in India. The Institute was established in 1978, as an autonomous society under the Ministry of Jal Shakti, Dept. of Water Resources, River Development & Ganga Rejuvenation, Government of India, with its headquarters at Roorkee. The Institute undertakes, aides, promotes and coordinates systematic and scientific work in all aspects of hydrology. Six Regional Centres of the Institute are located in different physiographic regions of the country. The scientific and technical credibility of the Institute in conducting hydrological and water resources research is well recognized both at the national and international level.

ORGANIZING COMMITTEE

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Places to visit near Roorkee

