

# FIRST INFORMATION BROCHURE



## INTERNATIONAL CONFERENCE ON

### CLIMATE AND WEATHER-RELATED EXTREMES

NEW DIMENSIONS, CHALLENGES AND SOLUTIONS

SEPTEMBER 19-20, 2022

IIT ROORKEE



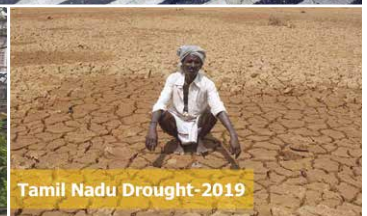
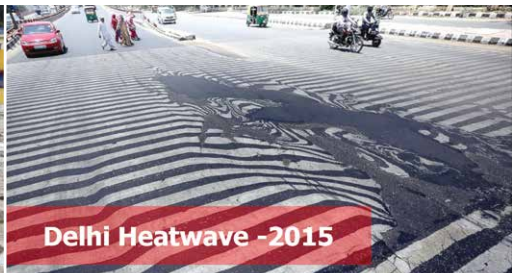
# ICCWE 2022



## INVITATION

The organizing committee is delighted to invite you to participate in the International Conference on Climate and Weather-Related Extremes - New Dimensions, Challenges, and Solutions (ICCWE 2022) to be held in hybrid mode organized by the Department of Water Resources Development and Management at the Indian Institute of Technology (IIT) Roorkee, India on September 19-20, 2022.

ICCWE-2022 will bring together leading climate scientists, faculties, policymakers, field engineers, research scholars, and students under a common platform to interact and showcase various dimensions related to climate and weather related extremes, particularly related to floods, droughts, heatwaves and cyclones.



## CELEBRATING 175 YEARS OF IIT ROORKEE

IIT Roorkee (erstwhile Thomason Engineering College), the first engineering institution of India, is now one of the leading educational institutes of the country imparting quality technical education and overall development of the society. IIT Roorkee is celebrating 175 years (1847-2022) of its rich educational heritage.

## ABOUT WRDM

To honor India's commitment at the Asian African Conference held in Bandung, Indonesia, the Department of Water Resources Development and Management was established in 1955 as an Asian African Centre. The department offers multi-faceted application-based Postgraduate Degree programs in Water Resources Development and Irrigation Water Management which imparts training to in-service Engineers (Civil, Electrical, and Mechanical) and Agricultural Scientists. In recent times, the department has addressed the necessity of a collaborative approach towards research in the domain of extreme events like droughts, floods, cyclones, heatwaves. The department has so far trained over 2579 in-service engineers and agricultural scientists from 50 countries including India.



## STRATEGIC GOAL OF THE CONFERENCE



The strategic goal of the conference is to promote collaborative and sustainability-based research ensuring a disaster-resilient environment for the future.

## ABOUT THE CONFERENCE

The conference would be a two days event with technical sessions being held on September 19-20, 2022 including keynote addresses, and paper and poster presentations. A pre-conference interactive technical session will be organized on September 18, 2022 in which domain experts will deliver lectures on themes: (i) Hydrodynamic flood mapping (ii) Satellite-based identification of drought-prone areas (iii) Cyclones and (iv) Heatwaves. A cultural tour to Rishikesh and Haridwar will be organized on September 21, 2022.

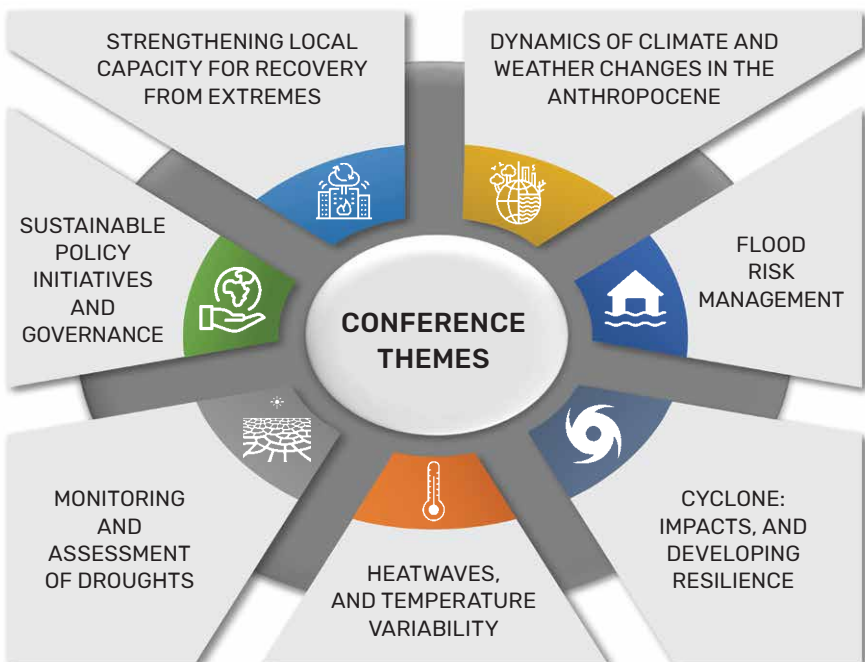
## IMPORTANT DATES

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Abstract Submission Starts	:	<b>May 25, 2022</b>
Last Date of Abstract Submission	:	<b>August 10, 2022</b>
Registration Opens	:	<b>August 01, 2022</b>
Pre-Conference Interactive Technical Session	:	<b>September 18, 2022</b>
Conference	:	<b>September 19-20, 2022</b>
Cultural Tour	:	<b>September 21, 2022</b>

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## TECHNICAL THEMES



## ICCWE 2022 COMMITTEE

**Prof. Ajit K. Chaturvedi**  
Director  
IIT Roorkee

**Prof. Manoranjan Parida**  
Deputy Director  
IIT Roorkee

**Prof. Arun Kumar**  
Chairperson  
175 Years Committee

**Prof. Ashish Pandey**  
Head of Department and Chairman

**Prof. Mohit Prakash Mohanty**  
Secretary

## LOCAL ORGANISING COMMITTEE

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**Prof. Idhaya Chandhiran. I**  
**Prof. Kritika Kothari**

**Prof. S.K. Mishra**  
**Prof. Deepak Khare**  
**Prof. M.L. Kansal**

**Prof. Shailendra Kumar Joshi**  
**Prof. Thanga Raj Chelliah**  
**Prof. K.S. Kasiviswanathan**

## SCIENTIFIC ADVISORY COMMITTEE

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Nagoya University, Japan

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University of Bristol, England

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IIT Kharagpur, India

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IIT Kharagpur, India

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UN-SPIDER Beijing, China

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IIT Bombay, India

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University of Texas, United States

**Prof. Chandra Shekhar Prasad Ojha**  
IIT Roorkee, India

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Texas A & M, United States

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IIT Guwahati, India

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Canada

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University of Wisconsin Milwaukee,  
United States

**Prof. M. Reza Najafi**  
The University of Western Ontario,  
Canada

**Prof. Hamid Moradkhani**  
The University of Alabama,  
United States

**Prof. Slobodan P. Simonovic**  
The University of Western Ontario,  
Canada

## KEYNOTE SPEAKERS

**Prof. Dev Niyogi**

University of Texas, United States

**Prof. Venkatesh Merwade**

Purdue University, United States

**Prof. Ana Mijic**

Imperial College London, England

**Prof. Indrajit Pal**

Asian Institute of Technology, Thailand

**Prof. Nicola Fohrer**

University of Kiel, Germany

**Prof. Mohd Farooq Azam**

IIT Indore, India

**Prof. Subimal Ghosh**

IIT Bombay, India

**Prof. Subhankar Karmakar**

IIT Bombay, India

**Prof. D. Nagesh Kumar**

IISc Bangalore, India

**Dr. Gyanendra Nath Mohapatra**

CSIR Fourth Paradigm Institute,  
Bangalore, India

**Shri Pradeep Kumar Jena**

Odisha State Disaster Management Authority,  
India

**Prof. Venkat Sridhar**

Virginia Polytechnic Institute and State University,  
United States

**Prof. Ashok Mishra**

Clemson University, United States

**Prof. V. P Singh**

Texas A & M, United States

**Prof. Paul Bates**

University of Bristol, England

**Prof. Sangam Shrestha**

Asian Institute of Technology, Thailand

**Prof. Slobodan P. Simonovic**

The University of Western Ontario, Canada

**Prof. U.C Mohanty**

IIT Bhubaneswar, India

**Prof. Chandranath Chatterjee**

IIT Kharagpur, India

**Prof. Durgesh Pant**

Uttarakhand Open University, India

**Prof. Mukund Dev Behera**

IIT Kharagpur, India

**Dr. Praveen Gupta**

Space Applications Centre (ISRO),  
Ahmedabad, India

**Prof. Anil K. Gupta**

National Institute of Disaster Management,  
India

**Dr. Praveen K. Thakur**

IIRS, Dehradun,  
India



## PAPER SUBMISSION

Authors are invited to submit abstracts (in English) by August 10, 2022. The abstract should not be more than 400 words (including spaces) and can include a maximum of 6 relevant keywords. The templates and instructions for abstract and paper submission are available on the conference website (<https://www.iitr.ac.in/iccwe2022/>). The technical program will include oral and poster presentations and the form of presentation for each paper will be decided by the committee upon receipt of the final version.

## AWARDS

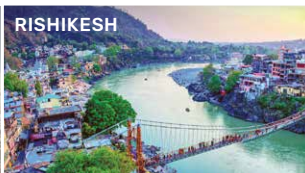
To commemorate the 175<sup>th</sup> year of IIT Roorkee, the organizing committee has decided to award the top three Best Paper awards and top three Best poster awards, the result of which will be announced during the ICCWE 2022 valedictory function.

## PROCEEDINGS

The abstracts and full-length papers will be peer-reviewed for novelty and content by the Technical Committee. The papers presented during the conference will be included in the proceedings, and few selected ones will be published in a prestigious peer-reviewed journal as a special issue. One registered author shall be allowed to present a maximum of two papers.

## CULTURAL TOUR

On September 21, 2022, a cultural-cum heritage tour will be organized to Rishikesh and Haridwar. Haridwar and Rishikesh are considered the “twin national heritage cities”. The mystical and spiritual environment of Haridwar and Rishikesh are the reason why they are considered perennial holiday destinations for people all around the world. Rishikesh is also known as the “Yoga Capital of the World” and has a lot to offer in terms of spirituality and adventure. Masses of people frequently visit Haridwar every year to pay their respects to the holy river Ganga.





## REGISTRATION INFORMATION

Title	Registration Fee
Full Delegate	6000 INR + 18% GST
Student / Research Scholar	2500 INR + 18% GST
International Delegates	250 USD
International Students	75 USD

The registration fee includes participation in all the conference sessions, lunch meals, coffee breaks and evening reception.

## SPONSORSHIP

The conference will provide an opportunity for the sponsoring organizations to publicize their products/services to the participants and organizers, and interact with them. Further details of the sponsorship packages are available on the conference website.



## CONTACT

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Chairman

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YEARS OF  
**IIT ROORKEE**  
Estd. 1847

**Department of Water Resources Development  
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