



**Dates: 28th Feb - 1st Mar 2022**

**Venue: Online (Zoom)**

**Organized by: Department of Hydrology, IIT Roorkee**

**Website: <https://sites.google.com/view/ehs-2022/>**

**Sessions 1 & 2**

28th February 2022 - Monday  
9 a.m. - 11:30 a.m. (Indian Time)

**Sessions 3 & 4**

1st March 2022 - Tuesday  
5 p.m. - 7:45 p.m. (Indian Time)

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Department of Hydrology  
*(Celebrating Golden Jubilee Year)*

## Steering committee

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Patron	Prof. Ajit Kumar Chaturvedi Director, Indian Institute of Technology, Roorkee
Chair	Prof. Brijesh Kumar Yadav Head, Department of Hydrology, IIT Roorkee
Convener	Prof. Ashutosh Sharma, Department of Hydrology, IIT Roorkee
Advisory Committee	Prof. Sumit Sen, Department of Hydrology, IIT Roorkee Prof. Himanshu Joshi, Department of Hydrology, IIT Roorkee

## About the symposium

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Ensuring clean water supply and management of freshwater resources is one of the curial sustainable development goals (SDGs), particularly important for developing nations like India, where freshwater availability is challenged by overexploitation and environmental degradation of natural water resources. The gap between water availability and demands has increased in India with population growth, lifestyle changes, and economic activities. The degradation of water quality in natural rivers due to untreated wastes and return flow from agricultural areas has also been a significant concern. Traditionally, engineering solutions have been adopted to ensure adequate water supply. In recent decades, Ecohydrology, a branch of hydrology that deals with ecosystem-water-climate connections, has emerged as a practical approach for finding nature-based solutions to these problems. The proposed symposium intends to bring Ecohydrology experts from different countries on a single platform to discuss the recent developments and issues in Ecohydrology research. Key issues and future research paths will be discussed through keynote lectures and panel discussions.

## Why attend EHS-2022?

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There is an urgent need to reverse the degradation of freshwater resources and minimize future biodiversity loss in the face of increased climate instability, demographic growth, and human interventions to ecosystems. Ecohydrology studies interactions between hydrological and biological processes at various scales to improve water security, biodiversity, and sustainable development potential by reducing ecological threats and increasing greater harmony within watershed systems.

The planned symposium aims to understand the role of Ecohydrology in solving real-world problems, especially in developing countries like India. The experts in the field will discuss the recent advances, accomplishments, and pitfalls in understanding and implementing ecohydrology concepts through case studies. The goal is to initiate a dialogue among researchers and practitioners to brainstorm the future direction of research and dissemination in the ecohydrology domain and explore the opportunities of international and national collaboration. These discussions are anticipated to promote the understanding of nature-based solutions among young minds of the country and accelerate research in this direction.

## Program Details

<b>Day 1 (28th February 2022 - Monday)</b> <b>9 a.m. - 11:30 a.m. (Indian Time)</b>	
<b>Inaugural Session</b> <i>9:00 am - 9:20 am</i>	Opening and Welcoming Ceremony
<b>Session 1</b> <i>(9:20 am - 10:50 am)</i>	<b>Keynote Talks</b> <i>Theme: "Ecohydrology of forest ecosystems"</i>  <u>Speakers:</u> <ul style="list-style-type: none"><li>• Dr. Stephanie Kampf, Colorado State University, USA</li><li>• Dr. Adam Wei, University of British Columbia (UBC), Canada</li><li>• Dr. Sandipan Mukherjee, G.B. Pant National Institute of Himalayan Environment (NIHE)</li></ul>
<b>Session 2</b> <i>(10:50 am - 11:40 am)</i>	<b>Panel Discussion</b> <i>Theme: "Recent advances in Ecohydrology Research"</i>  <u>Panelists:</u> <ul style="list-style-type: none"><li>• Dr. Ashantha Goonetilleke, Queensland University of Technology, Australia</li><li>• Dr. D.S. Arya, IIT Roorkee</li><li>• Dr. Karthikeyan Lanka, IIT Bombay</li></ul>
<b>Day 2 (1st March 2022 - Tuesday)</b> <b>5 p.m. - 7:45 p.m. (Indian Time)</b>	
<b>Session 3</b> <i>(5:00 pm - 6:30 pm)</i>	<b>Keynote Talks</b> <i>Theme: "Ecohydrology of freshwater ecosystems"</i>  <u>Speakers:</u> <ul style="list-style-type: none"><li>• Dr. Nandita Basu, University of Waterloo, Canada</li><li>• Dr. Jagdish Krishnaswamy, Indian Institute for Human Settlements (IIHS), ATREE</li><li>• Dr. Himanshu Joshi, IIT Roorkee</li></ul>
<b>Session 4</b> <i>(6:30 pm - 7:30 pm)</i>	<b>Panel Discussion</b> <i>Theme: "Challenges and future directions for ecohydrology research"</i>  <u>Panelists:</u> <ul style="list-style-type: none"><li>• Dr. Mike Bowes, UK Centre for Ecology &amp; Hydrology</li><li>• Dr. Manoj Kumar Jain, IIT Roorkee</li><li>• Dr. Sumit Sen, IIT Roorkee</li><li>• Dr. Andrea Momblanch, Cranfield University, UK</li></ul>
<b>Valedictory Session</b> <i>7:30 pm - 7:45 pm</i>	Closing remarks and Vote of Thanks

## Registration

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### Who can participate in EHS-2022?

Participation is free. We are welcoming participation from

- Students at UG, PG, and Ph.D. levels
- Early career researchers & experts
- Practitioners (from NGOs, Govt, and Pvt agencies)

### How to register?

Please visit the event website: <https://sites.google.com/view/ehs-2022/>

Registration page: <https://sites.google.com/view/ehs-2022/registration>

### Funded and supported by

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Shastri Indo-Canadian Institute



IIT Roorkee



Department of Hydrology

## Contact Information

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