

25th to 28th October

10.30-14.30pm CEST /

14.00-18.00 IST



**Co-PPARE**  
Collaborative Indo-German Project  
on Estimating and Predicting  
Natural Hazards in the Himalayan Region

Co-PPARE

# NSIH 2021

## Natural-hazard Symposium for the Indian Himalayas



Department of Hydrology  
IIT Roorkee



Institute of Environment  
Science and Geography

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### Funded by



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### Keynote Talks

The keynote talks will be given by experts on the emerging hydro-climatological extremes, risk, vulnerability and adaptation in the Indian Himalayan Region.

### Panel Discussions

Panel discussions will focus on the future of research in Indian Himalayas and try to highlight the multidisciplinary aspect of the natural-hazard domain

### Presentations by Early Career Researchers

The early career researchers will give presentation on compound extremes, bedload transportation and out burst of moraine- dammed lakes in the Indian Himalayan Region.

### Hands-on Training

Co-PPARE believes in fostering the scientists of the future and as such, we are pleased to extend Co-PPARE Conference Grant (CAG) for early career researchers to participate in Hands-On Session. Eligible candidates will be selected for CAG to participate in Hands-on sessions.

### Introduction

Natural hazard domain in the Indian Himalayan ecosystem poses unique challenges. To synergize research work in the IHR with focus on natural-hazard,

it is important to create platforms where researchers

can discuss diverse perspectives to break the silos. The Indian Himalayan Subsystem has to be investigated through various lenses like hydrology, geomorphology, climatology, disaster mitigation, adaptation, response and recovery. Being young and tectonically active, IHR requires focus on synergized efforts and hence, calls for an enhanced partnership of institutions working in the region.

### CoPPARE

Co-PPARE is a newly established UGC and DAAD-funded project at the department of Hydrology, IIT Roorkee and Institute for Environmental Sciences and Geography, University of Potsdam, Germany focusing on natural hazards in the Indian Himalayan region. Co-PPARE facilitates cooperation between Indian Institute of Technology Roorkee (IIT Roorkee) and University of Potsdam (UP) to build capacity in joint hazard research by sharing expertise and creating new knowledge together.

**Aim: To create awareness of multiple perspectives and research domains in the Indian Himalayan region regarding natural hazards.**

### NSIH 2021

The planned "Natural-hazard symposium for Indian Himalaya 2021" from October 25 to October 28, 2021 aims to create awareness of multiple perspectives and research domains in the Indian Himalayan region regarding natural hazards. The Indian Himalayan Region represents a significant role in the world's mountain ecosystems. It is young and tectonically active, prone to multi-hazard like floods, landslides, earthquakes among others and suffers great loss of life and property every year. Natural hazard frequency has risen in recent decades in IHR, resulting in massive socio-economic losses.

At the symposium, we will discuss the current research findings in the Natural-hazard domain in the Indian Himalayan region. We will also try to understand the historic perspective from the experts and how they see the future scenarios. The symposium will be a platform where we will get to hear voices from all the domains involved in natural hazards i.e. practitioners, scientists and the younger generation entering this field.

Sessions are designed to highlight that there is a need for wider collaboration to create relevant policies. The intention is to create a dialogue among various practitioners and researchers active in the Himalayan region. These discussions will provide guidelines for future research of natural-hazard domain in the Indian Himalayas. NSIH 2021 also focuses on developing new skills for early career researchers through hands-on training which will bring a fresh perspective in the research domain hence advancing science-communication.

Day 1		Opening Day	
Session 1		Inaugural Ceremony	
	IST	CEST	
	14:00 - 14:35	10:30 - 11:05	Welcome Session
	14:35 - 15:45	11:05 - 12:15	Plenary Talk and discussion
	15:45 - 16:00	12:15 - 12:30	Break
Session 2		Panel Discussion	
	16:00 to 18:00	12:30 - 14:30	Future directions for research on Himalayan Region
Day 2		Theme: Emerging HydroClimatological Extremes	
Session 3		Key Talks	
	14:00 - 15:00	10:30 - 11:30	Key Talks
	15:00 - 15:30	11:30 - 12:00	Interaction and future research directions
	15:30 - 16:00	12:00 - 12:30	Break
Session 4		Presentation by Early Career Researchers	
	16:00 to 18:00	12:30 - 14:30	Presentations by Researchers
Day 3		Risk, vulnerabilities and adaptation in the Himalayas	
Session 5		Key Talks	
	14:00 - 15:00	10:30 - 11:30	Key Talks
	15:00 - 15:30	11:30 - 12:00	Interaction and future research directions
	15:30 - 16:00	12:00 - 12:30	Break
Session 6		Hands-on session	
	16:00 to 18:00	12:30 - 14:30	A hands-on session for Early Career Researchers
Day 4		Panel discussion and hands-on-session	
Session 7		Panel Discussion	
	14:00 - 15:40	10:30 - 12:10	Panel Discussion IYWN (Indian Youth Water Network) "Breaking Silos: Future of water research for Himalayas"
Session 8		Valedictory Session	
	15:40 - 16:00	12:10 - 12:30	Vote of Thanks

Current and Future direction of Research in Himalaya: Learning from IPCC AR6

Emerging Hydro-Climatological Extremes

Risk, vulnerabilities and adaptation in the Himalayas

Breaking Silos: Future of water research for Himalayas

Interdisciplinary and international collaborative efforts enhance scientific discovery and transnational research, which is limited despite the clear benefits.