



Co-PRE**PARE**



Natural-hazard Symposium for the Indian Himalayas 2024
(NSIH 2024)

Theme: ***Hydro-Geomorphic Hazards in the Mountainous Regions***

8th -10th October, 2024
Department of Hydrology,
Indian Institute of Technology, Roorkee

Venue: A.P.J. Abdul Kalam Block- Lecture Hall Complex II
(Room Number-103)

Day 1	Opening Day (8th October 2024)
Session 1	Inaugural Session
9:30 AM-10:00 AM	Inaugural session
10:00 AM-10:45 AM	Group Photo + Tea/Coffee Break
Session 2	Panel Discussion Internationalization/Indo-German Partnership in higher Education Moderator: Prof. V.C Srivastava
10:45 AM-12.15 PM	<i>Dr R Madhan Director, IGSTC</i> <i>Dr. Vaibhav Agarwal, Deputy Director, DFG India Office</i> <i>Dr Poonam Sehgal Suri, Max Planck Society</i> <i>Dr Amisha Jain, University of Köln Germany</i> <i>Dr. Archana Thakur (Joint Secretary, University Grants Commission) (TBC)</i> <i>Dr V M Tiwari (Indian National Science Academy Representative)</i>
12.30 PM-13.00 PM	<i>Research and Funding Opportunities</i> <i>Dr R Madhan (Director, IGSTC)</i>

1:00 PM-2:30 PM	Lunch
Session 3	Research Talks
2:30 PM-3:30 PM	Plenary Talk: High-Impact / Low-Probability events: Processes and Management Speaker- Prof. Dr. Bruno Merz, German Research Centre for Geosciences, Germany
3:30 PM-3:50 PM	Plenary Talk: – Hydrological Safety Evaluations of Dams Speaker- N. K. Goel Department of Hydrology, IIT Roorkee
3:50 PM-4:10 PM	Plenary Talk: Data for Hydro-climatological studies Speaker- Dr Niranjankumar National Center For Medium Range Weather Forecasting (NCMRWF)
4.10PM-4.30PM	Plenary Talk: Identification and developing databases of HPEs in the peninsular region of India Speaker- Prof. Maheswaran Rathinasamy Department of Civil Engineering, IIT Hyderabad
4:30 PM-5:00 PM	Tea/Coffee Break
Session 4	Training Course Moderator: TBD
5:00 PM-6:30 PM	Hands-on session Topic: Analyzing long-term erosion rates using TopoToolbox (Module 1) Trainers- Dr. Wolfgang Schwanghart and Dr. Jürgen Mey

Day 2	9 th October 2024
Session 5	<p style="text-align: center;"><i>Plenary Talk</i> (Exploring the Hydro-geological Hazard Potential in the mountains) (20 minutes + 10 minutes Discussion) Moderator: TBD</p>
9:30 AM-10:00 AM	<p>Plenary Talk: Hydrological regimes and the related sediment dynamics under changing environmental conditions. Speaker- Prof. Dr. Axel Bronstert, University of Potsdam, Germany</p>
10:00 AM-10:30 AM	<p>Plenary Talk: Sediment Transport Dynamics in the Himalayas: Processes, Impacts, and Environmental Implications Speaker- Prof. Sumit Sen Department of Hydrology, IIT Roorkee</p>
10:30 AM-11:00 AM	<p>Plenary Talk: Extreme Himalayan sediment transport events, their legacy and implications Speaker- Dr. Wolfgang Schwanghart University of Potsdam, Germany</p>
11:00 AM- 11:30 AM	Tea/Coffee Break
Session 6	<p style="text-align: center;"><i>Plenary Talk</i> Cascading disasters and vulnerability in the Himalayan region Moderator: TBD</p>
11:30AM - 11:50 PM	<p>Plenary Talk: Differential impacts and recovery needs of disaster-affected communities in the Himalayan region Speaker- Prof. Roopam Shukla Centre of Excellence in Disaster Mitigation and Management, IIT Roorkee</p>
11.50PM- 12.10 PM	<p>Plenary Talk: Distributed databases and data sovereignty – reflections from natural hazard management Speaker- Dr Julien Jean Malard-Adam Institut de recherche pour le développement, Université de Montpellier, France</p>
12.10 PM-12.30 PM	<p>Plenary Talk: Mapping the Himalayan Cryosphere: Old Problems, New Solutions through Remote Sensing and Terrestrial Methods by Speaker- Saurabh Vijay, Department of Civil Engineering, IIT Roorkee</p>

12:30 PM-2:00 PM	Lunch
Session 7	Training Course <i>Moderator: TBD</i>
2:00 PM-2:30 PM	Plenary Talk: Fluvial response to glacial-interglacial cycles: Modelling the evolution of the Hochrhein using EROS <i>Speaker - Dr. Jürgen Mey</i> <i>University of Potsdam, Germany</i>
2:30 PM-5:30 PM	<i>Hands-on Session-I</i> Topic: Analyzing long-term erosion rates using TopoToolbox (Module 2) <i>Trainers- Dr. Wolfgang Schwanghart and Dr. Jürgen Mey</i> <i>University of Potsdam, Germany</i>
5:30 PM-6:00 PM	Valedictory

Day 3	10th October 2024 (dedicated to the Early-Career Researchers)
Session 8	Hands-on session and Open Science Discussion
9:30 AM-10:30 AM	<i>Hands-on Session-II</i> Topic: Hydro-Climatological Time Series Analysis Using Python <i>Trainers – Dr. Divya Sardana</i>
10:30 AM-12:00 Noon	<i>Hands-on Session-III</i> Topic: Using Constellation distributed data software in your own citizen science projects <i>Dr Julien Jean Malard-Adam, Institut de recherche pour le développement, Université de Montpellier, France</i>
12.00 onwards	Open sciences and Discussion and Networking with Hi-Tea