



Skill Development Cell
Outreach & Dissemination Services Office
CSIR – Central Building Research Institute
Roorkee – 247667 (Uttarakhand)



First Indo-Swiss Workshop on
‘Modelling Rock-ice Avalanches, Rock Falls, and Debris Flows’
September 19-20, 2023

CSIR-Central Building Research Institute, Roorkee has organized a two days’ Indo-Swiss Workshop on *‘Modelling Rock-ice Avalanches, Rock falls and Debris flows’* during September 19-20, 2023 under the aegis of CSIR Integrated Skill Initiative. This workshop is a joint activity of CSIR-CBRI, Roorkee and WSL Institute for Snow and Avalanche Research SLF, Switzerland under the Indo-Swiss Collaborative Project. The workshop was aimed at familiarizing the participants on state of the art practices being used at national and international level for debris flows, rock falls, snow avalanches and rock-ice avalanches by addressing the landslide research at CSIR-CBRI and SLF covering modelling, simulation & case studies of Rock falls, Debris flows & Rock-ice avalanches, Experimental study on Rainfall Induced Landslides etc. In addition, participants have also witnessed the R&D facilities & live demonstration on debris slope modelling at CSIR-CBRI. The workshop was attended by 120 working professional’s/experts/students of different institutions/organizations across the nation.

Prof. R. Pradeep Kumar, Director CSIR-CBRI inaugurated the workshop in the presence of Swiss delegates namely *Dr. Yves Buhler*, *Dr. Perry Bartelt*, *Dr. Jessica Munch*; with scientists *Dr. D.P. Kanungo* & *Dr. R. Dharmaraju*. During the inaugural address Director, CSIR-CBRI emphasized about all the R&D groups of CSIR-CBRI and achievements of the institute in serving the society & nation. He also mentioned about the importance, challenges and way-forward of this workshop. Swiss dignitaries, *Dr. Yves Buhler* & *Dr. Perry Bartelt* have also addressed the attendees and briefed about the working of *WSL Institute for Snow and Avalanche Research SLF, Switzerland* and Indo-Swiss collaborative project for eradicating these sorts of disasters together in India and Switzerland. *Dr. D.P. Kanungo*, Chief Scientist & workshop coordinator has highlighted the importance of this Indo-Swiss workshop in the diverse field of Rock-ice avalanches, rock falls and debris flows. Initially, *Dr. Pradeep Chauhan*, Sr. Principal Scientist welcomed the dignitaries, participants & other colleagues and briefed about the two days’ activities of the workshop. Subsequently, *Dr. R. Dharmaraju* Chief Scientist & Skill Nodal, CSIR-ISI highlighted about the contributions of CSIR-CBRI in meeting the GoI mission of Skill India with CSIR Integrated Skill Initiative. The workshop was co-coordinated by *Dr. Manojit Samanta* and *Dr. Rajesh Dash*. During the inaugural session, several CSIR-CBRI scientists, foreign delegates & eminent field experts across the nation were also present.

The two days' workshop was covered with 10 technical presentations made by various CSIR-CBRI scientists and Swiss Delegates through which participants have gained advanced studies on different aspects of Rock-ice Avalanches, Rock falls and Debris flows. In addition, participants have also witnessed the Institute's tools & techniques, R&D facilities and Exhibition Gallery for better understanding of the CSIR-CBRI endeavors. At the end, participants have also given their feedback and expressed the usefulness of the workshop to their professional commitments and future career opportunities. The workshop was thus concluded with the distribution of certificates and other relevant training materials.

List of Participants

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Glimpses of the Training Programme



Inaugural Ceremony



View of Participants



Group of Participants



Technical Sessions



Visit to CSIR-CBRI R&D Laboratories and Exhibition Gallery



Valediction & Certificate Distribution