



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



Second Indo-Swiss Workshop on
‘Modelling Rock-ice Avalanches, RockFalls, and Debris Flows’
November 20-22, 2024

CSIR-Central Building Research Institute, Roorkee has organized a three days’ Indo- Swiss Workshop on ‘Modelling Rock-ice Avalanches, Rock falls and Debris flows’ during November 20-22, 2024 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 33 working professional’s/experts/students of different institutions/organizations across the nation.

Dr. D.P. Kanungo, Chief Scientist CSIR-CBRI & Convener of the workshop was inaugurated the workshop in the presence of Swiss delegates namely Dr. Yves Buhler, Dr. Perry Bartelt, Dr. Jessica Munch, Dr. Andrea Maconi & Joël Borner and other resource persons Dr. Tanushree Verma & Mr. Bhupendra Bhaisore from SCA-Himalayas SDC (Uttarakhand); with scientists Dr. Harpal Singh, Chief Scientist & Sh. Nadeem Ahmad, Head Outreach & Dissemination Services. During the inaugural address Dr. D.P. Kanungo, Chief Scientist & workshop convener has highlighted the importance of this Indo-Swiss workshop in the diverse field of Rock-ice avalanches, rock falls and debris flows. He also mentioned about the importance, challenges and way-forward of this workshop. Swiss dignitaries, Dr. Yves Buhler 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. Initially, Dr. Harpal Singh, Chief Scientist welcomed the dignitaries, participants & other colleagues and briefed about the three days’ activities of the workshop. Subsequently, Sh. Nadeem Ahmad, Chief Scientist & Head ODSO, CSIR-CBRI highlighted about the contributions of CSIR-CBRI

in meeting the Gol mission of Skill India with CSIR Integrated Skill Initiative. The workshop was co-coordinated by Dr. Rajesh Dash. During the inaugural session, several CSIR-CBRI scientists, foreign delegates & eminent field experts across the nation were also present.

The three days' workshop was covered with 15 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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List of Resource Person

1	Dr. Perry Bartelt	Resource Person	WSL Institute for Snow and Avalanche Research SLF, Davos, Switzerland
2	Dr. Yves Buhler	Resource Person	WSL Institute for Snow and Avalanche Research SLF, Davos, Switzerland
3	Dr. Andrea Maconi	Resource Person	WSL Institute for Snow and Avalanche Research SLF, Davos, Switzerland
4	Dr. Jessica Munch	Resource Person	WSL Institute for Snow and Avalanche Research SLF, Davos, Switzerland
5	Joël Borner	Resource Person	WSL Institute for Snow and Avalanche Research SLF, Davos, Switzerland
6	Dr. Tanushree Verma	Sector Lead, DRR	SCA-Himalayas, SDC
7	Mr. Bhupendra Bhaisore	Technical Expert	SCA-Himalayas (Uttarakhand), SDC

Glimpses of the Training Programme



Inaugural Ceremony



Group of Participants



Technical Sessions



Valediction & Certificate Distribution