

## Workshop- Rockfall protection and landslide stabilization solutions integrated with IoT technology

Date: 23<sup>rd</sup> September 2024

Key Speakers: **Dr. Ashish Juneja, Professor- IIT Bombay, Mr. Pierluigi Bassetto, CEO, NESAsrl and Mr. Fabien GAZADO, Head of the Rockfall Business Unit, Officine Maccaferri S.p.A.**

Explore the latest advancements in rockfall, debris flow and landslide mitigation solutions —critical elements in safeguarding infrastructure and lives. Technical experts will share global expertise in the field, encompassing meticulously engineered solutions to mitigate rockfall and landslide risks.—These sessions will also showcase innovative and advanced technologies successfully adopted worldwide through multiple national/ international case studies. Discover how smart alert systems provide added layers of security, empowering you to design smarter and with more effective solutions.

Session	Topic	Time	Topic Brief
Session 1	What are Rockfall Hazards?	9:30 am-10:30 am	Definition causes and types of rockfall shall be explained along with details of risk, vulnerability and hazard.
Session 2	Solutions For Rockfall and Debris-Flow Hazard	10:30 am-11:30 am	Solutions for rockfall and debris-flow hazard various rockfall mitigation measures shall be explained with focus on innovative solutions.
Session 3	Successful Case Studies on Rockfall Mitigation Measures	11:45 am-12:45 pm	Successful case studies on rockfall mitigation measures discussing innovative solutions and successful measures implemented in challenging and vulnerable stretches of hilly terrain
Session 4	What is Landslide?	14:00 pm-15:00 pm	Definition, causes, types of landslides shall be explained along with identification of landslides.
Session 5	Landslide- Solutions, guidelines and success stories	15:00 pm-16:00 pm	Various landslide measures shall be explained with focus on site specific holistic solutions.
Session 6	IoT Based Smart Alert System - International Guidelines & Solutions	16:30 pm-17:30 pm	IoT based smart alert system - international guidelines & solutions alert system shall be explained in detail along with its integration with early warning systems for rockfall/ landslide prone sites.