

Title: Multidisciplinary Technological Interventions for Multi-Hazard Disaster Risk Reduction

Abstract:

Northeast India witnesses disasters in several forms, such as earthquakes, landslides, droughts, floods, strong windstorms, etc. In the 2015 National Building Code, multi-hazard map of India has been published wherein regions in the northeastern states with high vulnerability from some of the natural hazards have been identified. Communities settled in habitats at such locations are at high risk from multiple hazards, therefore disaster risk reduction strategies are required to be developed in addressing site-specific conditions. Multi-hazard disaster risk reduction is a multidisciplinary subject, requiring inputs from several stakeholders. Particularly, engineers and technocrats from various domain expertise are required to join hands together for implementing technological interventions to be able to meet numerous challenges posed from multi-hazard disasters, in order to achieve risk reduction, and thereupon leading to a resilient community. Beginning from explaining the concepts in multi-hazard disaster risk reduction, giving past evidences of multi-hazard events from a global perspective, this talk will highlight future research needs and emphasize how engineering community will be able to contribute towards making hazard resilient community and sustainable habitat thereof.