

香港科技大学张利民教授学术报告

报告题目: **Multi-hazard Landslide Risk Assessment and Engineering Decision**

报告时间: 2014年9月22日下午 14:00-15:00

报告地点: 安中大楼 A326

Abstract

Risk assessment for engineering construction, public safety and city planning must answer three questions: (1) What can go wrong? (2) What is the likelihood that it will go wrong? (3) What are the consequences if it goes wrong? All the three questions are difficult to answer. Often “unexpected” hazard scenarios arising from cascading effects lead to disastrous consequences because such hazards are not prepared for. This seminar starts by a careful look into hazards interactions in landslide events. Then a five-phase multi-hazard risk analysis protocol, developed at Hong Kong University of Science and Technology, will be introduced. This protocol emphasizes interactions among threats and possible cascading effects, as well as interactions among the vulnerabilities to the threats. Finally, risk-based engineering decisions will be illustrated using examples in highway design and construction.

Bio of Professor Limin Zhang

Dr. Limin Zhang is Professor of Geotechnical Engineering and Associate Director of Geotechnical Centrifuge Facility at the Hong Kong University of Science and Technology. His research covers slopes and dams, geotechnical risk assessment, pile foundations and multiphase flows. He received Mao Yi-Sheng Soil Mechanics and Geotechnical Engineering Award and the NSFC Overseas Young Investigator Award. Dr. Zhang is Chair of Geotechnical Safety Network (GEOSNet), Vice Chair of the International Press-In Association, Past President of the ASCE Hong Kong Section, Editor-in-Chief of International Journal *Georisk*, Associate Editor of ASCE's *Journal of Geotechnical and Geoenvironmental Engineering*, and editorial board member of *Soils and Foundations*, *Computers and Geotechnics* and several other journals. He has authored/co-authored over 150 SCI journal papers.

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