

UNIVERSITY OF MACAU
FACULTY OF SCIENCE AND TECHNOLOGY
DEPARTMENT of
CIVIL AND ENVIRONMENTAL ENGINEERING

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**" Mechanism of the development, initiation
and disaster modes of large landslides "**

by

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Venue: E11 – 1006

Abstract

The mechanism of large landslides is very complex, which is related to the geological structure, geohydrological conditions and different triggering factors of the landslide. In this presentation, typical landslide case histories occurred in recent years will be introduced and their mechanism will be analyzed. After this, methods on recognizing the geological structures of landslides using non-destructive methods will be introduced. At the end, a method for analyzing the initiation of rainfall-induced landslides considering preferential flow in soil will be presented and discussed.

Biography

Lijun Su, PhD, Professor of Geotechnical Engineering at the Institute of Mountain hazards and environment, Chinese Academy of Sciences (CAS). He obtained his Bachelor Degree and Master Degree in civil engineering at the Xi'an Jiaotong University in 2000 and 2002, respectively. Following that, he earned his PhD degree in geotechnical engineering at the Hong Kong Polytechnic University in 2006. He started his first job at the Xi'an University of Architecture and Technology as an associate professor in 2007. In 2008, he went to Australia and started to work at the University of Wollongong as a research fellow under a CRC project about non-destructive assessment of railway track conditions. He joined the institute of mountain hazards and environment in February 2012 under the "Hundred Talents" Program of the CAS and now is the vice director of the Key Laboratory of Mountain Hazards and Earth Surface Process, CAS. He has broad research interests in geotechnical engineering, including constitutive modeling of geomaterials, numerical analysis of geotechnical problems, laboratory and physical model tests, application of geophysical methods in geotechnical engineering and etc. He is currently working on landslide mechanisms and hazard analysis. He is a scientific editor of the international Journal of Mountain Science and board member of the International Consortium on Landslides. He has published more than 50 journal and conference papers so far.

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