



## DEPARTMENT OF CIVIL ENGINEERING

## SEMINAR

**The Prediction and Warning of Debris Flow Hazards in China**

Professor CHEN Ningsheng

Institute of Mountain Hazards and Environment, Chinese Academy of Sciences  
China

Date: June 26, 2023 (Monday)

Time: 10:30 a.m. - 11:30 a.m.

Venue: Room 632, 6/F Haking Wong Building, The University of Hong Kong

**Abstract**

In recent years, debris flows have become a major natural hazard in China, causing significant damage to infrastructure and human lives. With the advancement of technology, we now have a better understanding of the mechanics of debris flow and its triggering factors, enabling us to predict and warn against such disasters. In this seminar, Professor Chen will discuss the current state of research on debris flows, the faced challenges in predicting and warning, and the innovative solutions for mitigating their impact. In addition, Professor Chen will discuss several key issues associated with the prediction and warning of debris flows, including scientifically predicting method, the precursors, and the precipitation triggering factor.

**About the Speaker**

Professor CHEN Ningsheng is the Foreign Academician of the Russian Academy of Natural Sciences, the Outstanding Talent of Thousand Talents Program in China, an expert of special government allowance of the State Council, PhD supervisor and full professor of the Institute of Mountain Hazards and Environment, CAS, Director of the Field Scientific Observation and Research Station of Ministry of Education for Geological Hazards in Bomi, China, Director of Mountain Branch of the Chinese Geographical Society, Academic and Technical Leader of Sichuan Province, Chief Scientist of Disaster Prevention and Control of Kathmandu Science and Education Center of Chinese Academy of Sciences in Nepal, Member of the China Committee of European Geographical Union (EGU). He was elected as one of the top ten "Most Beautiful Science and Technology Workers" in Sichuan Province in 2021, nominated as one of the "Moving People of the Year" in CAS in 2021, and awarded as one of the top ten "Most Beautiful Geoscientists in China, 2022". He was awarded 12 national and provincial science and technology awards, including one National Science and Technology Progress Second Prize, two Sichuan Science and Technology Progress First Prizes and two CAS Science and Technology for Development Awards. He published 201 papers, 20 patents or software copyrights, and completed 33 consultancy reports that were adopted by provincial and ministerial level and above. 18 reports were approved and adopted by relative governments and made significant impact at the national level. He is a well known researcher in drought-induced debris flow disaster theory and prediction. debris flow early warning technology. He hosted some major domestic and international disaster prevention and mitigation projects such as the Zhangmu landslide, the Tianshan debris flow, and the Kosi River mountain disaster risk assessment, which have made outstanding contributions to the field.