



Workshop on global grand challenges for engineered slopes

Reykjavik, 1 September 2019

In this session we discuss what our response should be to two of the greatest technical challenges faced in current slope stability practice: i) the impact of climate and climate change on slope stability, and ii) addressing the risk of static liquefaction in landslide and tailing storage facility flow failures.

13:00-13:05	Introduction & welcome Andy Take, Queen's University, Canada & Chair of TC208
Invited Theme Lec	tures: Impact of climate and climate change on slope stability
13:05-13:20	Weather-induced deterioration of infrastructure slopes: and overview of the ACHILLES research programme Stephanie Glendinning, Newcastle University, UK
13:20-13:35	Modelling the deterioration of infrastructure slopes Peter Helm, Newcastle University, UK
13:35-13:50	Deterioration of Soil Slopes due to Environmental Cycles David G. Toll & Paul N. Hughes, Durham University, UK
13:50-14:05	Shifting perspective: How thaw slumps and permafrost degradation will impact infrastructure in Canada's North Ryley Beddoe, Royal Military College of Canada
14:05-14:35	Open Discussion: What is a reasonable design life for considering climate change? What should the role of the slope stability community be? Facilitator: Elisabeth Bowman, Sheffield University, UK, & Secretary of TC208
14:35-14:45	Break
Theme 2: Static lic	uefaction in tailing storage facilities
14:45-15:00	Current research on tailings dam failures in Canada (CanBreach project) & Australia (TALLIQ project) Andy Take, Queen's University, Canada, on behalf of CanBreach & TALLIQ teams

- 15:00-15:15 **To be confirmed (TBC)** *TBC*
- 15:15-15:45 Open Discussion: To what degree is the high frequency of tailings dam failures driven by technical, regulatory, education, or economic factors? What should the role of the slope stability community be? Facilitator: Elisabeth Bowman, Sheffield University, UK, & Secretary of TC208
- 15:45-16:15 ISSMGE TC208 Committee Meeting