

Modelling Large Landslides

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Abstract: Modelling large landslides is a challenge.

The objective of the talk is not to propose a whole methodology on the subject but to draw attention to some points that are often neglected or unrecognized.

The following topics will be covered

- Why get into modelling? Is it an absolute necessity today? What is the aim?
- Conceptual Model before Modelling
- Is 3D a necessity and, in case of 2D modelling, is plane strains always obvious?
- Boundary conditions.
- Initial state of stress or how to build the least bad scenario.
- Continuous/discontinuous modelling
- Fractures network
- Mechanical properties of rock mass.
- The role of anisotropy on failure