

1st REDBACK symposium

MOOSE framework applied to geomechanics

18th May 2026 | TU Delft - CEG Hall B

FREE REGISTRATION!



KEYNOTE PRESENTATIONS (09:30 – 11:00)

Manolis VEVEAKIS & Thomas POULET (*Duke University & CSIRO*)

└ Rock mEchanics with Dissipative feedBACKs

Kavan KHALEBI (*Fraunhofer Institute*)

└ From reservoirs to repositories: coupled geomechanics modeling with MOOSE

TECHNICAL SESSION: MULTIPHYSICS (11:30-12:30)

Alexandre SAC-MORANE (*ENPC*)

└ Predicting the microstructure evolution of geomaterials under chemical interactions with a Phase-Field approach

Jens NICLAES (*UC Louvain*)

└ Hydrothermal alteration in rocks

TECHNICAL SESSION: MULTISCALE (13:30-15:00)

Sijmen ZWARTS (*TU Delft*)

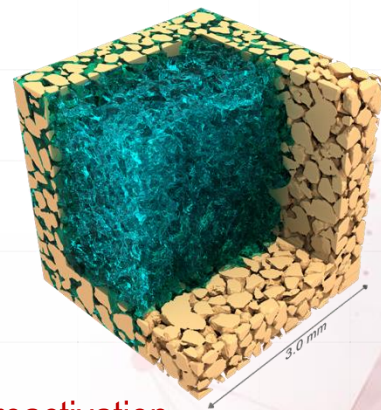
└ Digital Rock Physics for Underground Hydrogen Storage

Martin LESUEUR (*TU Delft*)

└ Multiscale multiphysics geomechanics framework for fault reactivation

Winston LINDQWISTER (*WUR*)

└ Rock properties prediction from microstructure morphology descriptors



TECHNICAL SESSION: GEOTECHNICS (15:30-17:00)

Guillaume FLOOD-PAGE (*UC Louvain*)

└ Rainfall-induced landslides in volcanic soils

Nathan DELPIERRE (*UC Louvain*)

└ Particle Finite Element Method for large deformations and slope stability

Hadrien RATTEZ (*UC Louvain*)

└ Installation and ageing of offshore wind turbine foundations

