

Program of CODE_BRIGHT Workshop
 Wednesday, 3 June 2026
 Room D2-216. UPC Campus Nord
 UPC-BarcelonaTech

Time	Title
9:20-9:30 h	Presentation
1st session. Chair: Larissa Friedenberg	
9:30-9:55 h	Numerical modelling of capillary barrier in a Reinforced Soil Slope J. C. Guzman-Martinez, I. P. Damians, S. Olivella
9:55-10:20 h	A preliminary CODE_BRIGHT-based thermo-hydraulic modelling approach for unsaturated frozen soil Y. Wei, E. Romero, J. Torres-Serra, C.-S. Tang, F. Casini
10:20-10:45 h	Numerical simulations of the pullout response of polyester strap reinforcements in granular material A. Moncada, I.P. Damians, S. Olivella, R. J. Bathurst
10:45-11:10 h	THM modeling of an in-situ heating test in Callovo-Oxfordian claystone S. Sandoval, J. Vaunat, A. Gens, M.N. Vu, C. Plúa, G. Armand
BREAK	
2nd session. Chair: Aníbal Moncada	
11:35-12:00 h	An extension of the BBM for vegetated soils E. Badakhshan, J. Vaunat
12:00-12:25 h	Small Scale Dam Modelling G. Morales, N. M. Pinyol, S. Olivella
12:25-12:50 h	Hydro-chemo-mechanical simulation of cement-groundwater interaction in a deep geological repository S. González-Fuentes, M. W. Saaltink, V. Vilarrasa
12:50-13:15 h	Hydro-mechanical-chemical and gas transport (HMC-G) modelling of sand/bentonite mixtures E. Toprak, S. Olivella, E. Romero
13:15-13:40 h	Modelling of geotechnical problems including chemical interactions with CODE_BRIGHT A. Ramon, S. Olivella
LUNCH	
3rd session. Chair: Erdem Toprak	
15:00-15:25 h	Simulation of large geometries considering materials with heterogeneous properties X. Pintado
15:25-15:50 h	Insights to the model calibration and verification procedure in the Sandwich project M. Hinze
15:50-16:15 h	Coupling of CODE_BRIGHT with the open-source project DISTRIBUTEDSPARSEGRID.JL L. Friedenberg, M. Bittens
16:15-16:40 h	Modelling of Sand-Bentonite Mixtures Using a Double Structure Formulation M. Alonso, J. Vaunat, A. Gens, S. Olivella
16:40-17:05 h	Preliminary H-HM-THM modelling of injectivity enhancement in deep saline aquifers for geological CO ₂ storage H. L. Ojeda, J. Carrera, A. Rodriguez-Dono