

Program of CODE\_BRIGHT Workshop  
 Wednesday, 19 April 2023  
 Face-to-face: Room D2-216. UPC Campus Nord  
 Online: <https://meet.google.com/hem-ndpd-kbc>  
 UPC-BarcelonaTech

Time	Title
9:30-9:40 h	Presentation
<b>1st session.</b> Chair: Alfonso Rodriguez-Dono	
9:40-10:05 h	Modelling of Gas injection Tests in Clay Barriers, Laboratory to Field-Scale E. Toprak, S. Olivella
10:05-10:30 h	Numerical analysis for the simulation of crushed salt compaction behavior L. Friedenber, S. Olivella, U. Dusterloh
10:30-10:55 h	Performance of Boom Clay subject to thermal loading: application to the Praclay in-situ experiment F. Song, A. Gens
10:55-11:20 h	Modelling Soil-Vegetation-Atmosphere in a field experiment E. Badakhshan, J. Vaunat
BREAK	
<b>2nd session.</b> Chair: Larissa Friedenber	
11:45-12:10 h	Modelling heterogeneous geomaterials in a termo-hydro-mechanical framework A. Rodriguez-Dono, Y. Zhou, S. Olivella
12:10-12:35 h	Modelling multiphase flow, heat transport and swelling in a radioactive waste repository in clay rock M.C. Chaparro
12:35-13:00 h	Identification of water retention curve from freezing experiment A. Macias, K. Bockhova, J. Vaunat
13:00-13:25 h	Coupled hydromechanical modeling of induced seismicity at the Enhanced Geothermal System of Basel A. Boyet, S. De Simone, S. Ge, V. Vilarrasa
LUNCH	
<b>3rd session.</b> Chair: M. Carme Chaparro	
14:45-15:10 h	Exploring material heterogeneity in gas flow simulation through clay materials: a numerical study B.S. Noghretab, I.P. Damians, S. Olivella, A. Gens
15:10-15:35 h	Strength reduction analysis in polymeric reinforced soil walls A. Moncada, I.P. Damians, S. Olivella, R.J. Bathurst
15:35-16:00 h	Literature review of CODE_BRIGHT I.P. Damians, S. Olivella
16:00-16:25 h	Applications of CODE_BRIGHT for teaching purposes in civil engineering S. Olivella