

Program of CODE_BRIGHT Workshop
 Wednesday, 22 May 2024
 Face-to-face: Room D2-216. UPC Campus Nord
 UPC-BarcelonaTech

Time	Title
9:30-9:40 h	Presentation
1st session. Chair: Alfonso Rodriguez-Dono	
9:40-10:05 h	Calculation of reaction rates induced by temperature changes R. Vidal, S. Olivella, M.W. Saaltink
10:05-10:30 h	Numerical analyses of spherical indenter intrusion into sandstone S. Zhang, A. Rodriguez-Dono, Z. Zhou, F. Song
10:30-10:55 h	Numerical simulation of gas Injection in low permeability clay materials considering different element types Y. Mo, A. Rodriguez-Dono, S. Olivella
10:55-11:20 h	Modelling of permeability and triaxial experiments for heterogeneous anisotropic claystone Y. Zhou, A. Rodriguez-Dono, S. Olivella
BREAK	
2nd session. Chair: Yangyang Mo	
11:45-12:10 h	Simulating soil reinforcement interaction using CODE_BRIGHT A. Moncada, I.P. Damians, S. Olivella, R.J. Bathurst
12:10-12:35 h	Thermo-Hydro-Mechanical (THM) Modelling of Onkalo Spent Nuclear Fuel Repository E. Toprak, S. Olivella, X. Pintado
12:35-13:00 h	Modelling reactive transport in unsaturated concrete for storing radioactive waste M.C. Chaparro, M.W. Saaltink
13:00-13:25 h	Extension of CODE_BRIGHT with an object-oriented chemical module for thermal-hydraulic-mechanical-chemical models M.W. Saaltink, A. Ramon, S. Olivella
LUNCH	
3rd session. Chair: Yunfeng Zhou	
15:00-15:25 h	Thermal analysis of the Full-Scale In-Situ System Test (FISST) in Finland. Rock thermal properties X. Pintado, M. Niskanen
15:25-15:50 h	HM simulation of laboratory and in-situ experiments in the Sandwich project M. Hinze, L. Friedenberg
15:50-16:15 h	THM simulation of processes in generic final repository concepts M. Hinze, L. Friedenberg
16:15-16:40 h	Modification in the numerical modelling of crushed salt compaction processes L. Friedenberg, S. Olivella
16:40-17:05 h	Modelling barrier hydration and swelling under salinity conditions A. Ramon, S. Olivella, A. Rodriguez-Dono