

Program of CODE_BRIGTH Workshop

Thursday, May 16th, 2019

Place: Room D2-212. UPC Campus Nord

UPC-BarcelonaTech

Time	Title
9:30-9:40 h	Presentation
1st session. Chair: Alfonso Rodríguez Dono	
9:40-10:05 h	Swelling pressure test for block and pellet mixture H. Lu, A. Gens
10:05-10:30 h	Thermo-hydromechanical response around large excavations in the Callovo-Oxfordian M. Alonso, J. Vaunat, M. Vu
10:30-10:55 h	Assessment of Code_Bright processing time using parallel versions X. Pintado
10:55-11:20 h	A viscoplastic damage model combined with strain-softening failure criterions for rock mass F. Song, A. Rodriguez-Dono, S. Olivella
BREAK	
2nd session. Chair: Fei Song	
11:45-12:10 h	THM calculations for FISST experiment E. Toprak, S. Olivella, X. Pintado
12:10-12:35 h	Modelling heat transport at the fresh-saltwater interface in coastal aquifers L. del Val, MW. Saaltink, A. Folch, M. Pool, J. Carrera
12:35-13:00 h	Shear deformation analysis of canister-clay as a engineered barrier principle for spent fuel isolation P. Khadivipannah, X. Pintado, S. Olivella, J. Vaunat
13:00-13:25 h	Benchmarking for validation and verification of THM simulators with special regard to fluid dynamic processes in repository systems (BENVASIM) L. Friedenberg, O. Czaikowski, J. Feierabend, BJ. Graupner, J. Hansmann, S. Hotzel et al.
LUNCH	
3rd session. Chair: Laura del Val	
15:00-15:25 h	A geothermal energy concept based on heat storage in geological media R. Vidal, S. Olivella, M. Saaltink
15:25-15:50 h	Temperature induced water fluxes around an opening in the Callovo-Oxfordian formation C. Villarraga, J. Vaunat, M. Lundy, M. Vu
15:50-16:15 h	Modeling a long-term CO ₂ injection experiment at the underground rock laboratory of Mont Terri V. Vilarrasa, D. Rebscher, RY. Makhnenko, C. Nussbaum
16:15-16:40 h	Developments in Code_Bright to simulate the THM phenomena in Methane Hydrate Bearing Sediments M. de la Fuente, J. Vaunat, H. Marín-Moreno
16:40-17:05 h	Modelling gas flow experiments in MX80 bentonite: analysis of preferential gas paths IP. Damians, S. Olivella, A. Gens