

**Program of CODE\_BRIGHT Workshop**  
**Wednesday, 4 June 2025**  
**Room D2-216. UPC Campus Nord**  
**UPC-BarcelonaTech**

<b>Time</b>	<b>Title</b>
9:55-10:05 h	Presentation
<b>1st session.</b> Chair: Alfonso Rodriguez-Dono	
10:05-10:30 h	Numerical modeling of buoyancy effects in geological CO <sub>2</sub> storage H. Wu, S. De Simone, V. Vilarrasa
10:30-10:55 h	Numerical modelling of soil-reinforcement interface with Mohr-Coulomb plasticity S. Xiao, I.P. Damians
10:55-11:20 h	Numerical modelling of polyester strap reinforcements creep response A. Moncada, I.P. Damians, S. Olivella, R.J. Bathurst
BREAK	
<b>2nd session.</b> Chair: Aníbal Moncada	
11:45-12:10 h	Analysis of surface settlements induced by construction of tunnels in urban areas including jet grouting umbrellas E. Toprak, E. Alonso, S. Olivella
12:10-12:35 h	Modeling Rainfall-Induced Slope Failure with CODE_BRIGHT A. Rodriguez-Dono, E. Badakshan, M. Buitrago, F. Song, Y. Wei, S. Olivella, J. Vaunat, A. Priegue, S. Valero, O. Fruitos
12:35-13:00 h	Coupled flow-deformation processes associated with the removal of root water uptake C. Walker, A. Heitor, F. Loveridge, J. West, J. Gaucher, M. Smith
LUNCH	
<b>3rd session.</b> Chair: Erdem Toprak	
15:00-15:25 h	Thermal analysis of the Full-Scale In-Situ System Test (FISST) in Finland. Rock thermal properties X. Pintado, T. Leino, M. Niskanen
15:25-15:50 h	Simulation of THM processes for a generic HLW repository M. Hinze, L. Friedenberg
15:50-16:15 h	Insights into the daily life of a numerical modeler –an exemplary crushed salt modeling task L. Friedenberg