



# InterPore2025

## Tuesday, 20 May 2025

### MS03: 2.1 (09:05 - 10:05)

time	[id] title	presenter
09:05	[198] Transmissibility Upscaling in Karst Carbonate Rocks Using Surrogate Models	PEREIRA, Patricia
09:20	[203] Statistical integro-differential fracture model (Sid-FM): An efficient approach to simulate expected flow in fractured sub-surface formations	STALDER, Daniel
09:35	[377] Bridging the gap between field observations and modeling of fracture networks	Dr SWEENEY, Matthew
09:50	[360] Developing a Foundation Model for Predicting Material Failure	VISWANATHAN, Hari

### MS03: 2.3 (14:05 - 15:05)

time	[id] title	presenter
14:05	[225] Damage induced by salt crystallization in heterogeneous porous media in the context of the erosion of the French Basque Coast and the damage of protective buildings	Prof. GRÉGOIRE, David
14:20	[361] Effects of fluid inertia and variable-density flows on mineral dissolution: 3D Pore-scale simulations and millifluidics experiments	CAO, Hongfan
14:35	[605] Effect of Pressure and CO <sub>2</sub> Solubility on Etch Pit Formation in Fractured Peridotite	NGUYEN, Hoang
14:50	[615] Evolution of Hydraulic and Mechanical Apertures in Heterogeneous Fractures Driven by Mineral Precipitation	CHEN, Ruoyu

# Wednesday, 21 May 2025

## **MS03: 3.2 (11:35 - 13:05)**

time	[id] title	presenter
11:35	[153] Coupled THM Processes in PFLOTTRAN for Modeling Enhanced Geothermal Systems	AL KUBAISY, Jumanah
11:50	[422] Impact of Stress and Fracture Orientation on Fluid Mixing at Fracture Intersections	DENG, Jingxuan
12:05	[557] Numerical simulation of Krauklis wave propagation in complex 2D fracture systems	NAKAGAWA, Seiji
12:20	[205] Analysis and Comparison of Natural and Induced Single Fractures for Caprock Leakage Assessment	ACHUO DZE, Sahyuo
12:35	[281] Fracture displacement basis function method for fast geomechanical simulations of fractured rocks	CONTI, Giulia
12:50	[643] Experimental validation of a graph-based model to represent colloid transport and fracture-matrix transport processes	SUTTON, Collin

## **MS03: 3.3 (14:05 - 15:05)**

time	[id] title	presenter
14:05	[143] Study of thermal protection system defects using a one-domain porous media model	Mr VAN GOGH, Brandon
14:20	[490] Particle transport in propagating hydro-fracture	Dr DU, YUJING
14:35	[274] Fracture initiation of polymer flooding using CFD-DEM model in porous media	Dr AMANBEK, Yerlan
14:50	[383] Learning the factors controlling mineral dissolution in three-dimensional fracture networks	Dr PACHALIEVA, Aleksandra