

InterPore2025

Monday, 19 May 2025

MS07: 1.1 (11:25 - 12:25)

time	[id] title	presenter
11:25	[280] Modeling processes in the Arctic from pore- to Darcy scale	PESZYNSKA, Malgorzata
11:40	[346] Rigorous Upscaling of the Navier-Stokes Equations in Heterogeneous Porous Media	Dr PIETRZYK, Kyle
11:55	[137] A Dynamic Network Model for Thermally-Driven Reactive Transport Near Chemical Equilibrium via Spectral Decomposition	GU, Binan
12:10	[390] Numerical Modeling of CO2 Solution Injection into Korean Basalt for Rapid Geological Carbon Storage through Mineralization	Prof. MIN, Baehyun

MS07: 1.2 (13:50 - 15:05)

time	[id] title	presenter
13:50	[363] Topologically-reduced models of flows in porous media with inclusions	RIVIERE, Beatrice
14:05	[79] A relaxation method for nonlinear convection-diffusion processes with discontinuous terms	ABREU, Eduardo
14:20	[199] Coupled Hyperbolic Approach to Solve Buoyant Two-Phase Flow and Transport in Heterogeneous Porous Media	RIESS, Armin
14:50	[511] Intracellular "in silico microscopes" - fully 3D spatio-temporal virus replication model simulations	WITTUM, Gabriel

Tuesday, 20 May 2025

MS07: 2.2 (11:35 - 13:05)

time	[id] title	presenter
11:35	[52] Pore-Scale Modeling and Relative Permeability Upscaling in Stress-Sensitive Fractured Porous Media	MURAD, Marcio
11:50	[589] Non-intrusive global-local method for the poroelasticity model with localized pressure effects	Dr KUNWAR, Hemanta
12:05	[456] Advancing constitutive models for expansive clays: integration of suitable effective stress and water retention frameworks	PARZIALE, Alessandro
12:20	[449] Phase-Field Fracture Propagation in Thermo-Hydraulic-Mechanical Systems	LEE, Sanghyun
12:35	[410] A Multiscale Approach to Simulate Multiphase Non-Isothermal Flow in Deformable Porous Materials	ZHENG, Xiaojin
12:50	[483] A proposal to model non-uniform mixing of polymers in flows of shear-thinning polymers in porous media during enhanced oil recovery by polymer flooding	DARIPA, Prabir