

InterPore2025

Tuesday, 20 May 2025

MS06-A: 2.2 (11:35 - 13:05)

time	[id] title	presenter
11:35	[235] Two-phase flow and reactivity: an hybrid-scale approach	Dr SOULAINÉ, Cyprien
11:50	[458] Mechanisms for Enhanced Mixing in Unsaturated Porous Media	FARHAT, Saif allah
12:05	[621] Two-phase flow in porous media under the influence of external electric and magnetic field - Multiscale homogenization approach	MAJUMDAR, Promasree
12:20	[43] Impact of inertia and wetting films on the stability of two-phase flow: a pore-doublet approach	BERNARD, Nathan
12:35	[482] Quantifying the Effect of Pore-size Dependent Wettability on Relative Permeabilities using Lattice Boltzmann Simulation	KANG, Qinjun
12:50	[250] Quantification and modeling of pore-scale foam behavior	PRODANOVIC, Masa

MS06-A: 2.3 (14:05 - 15:05)

time	[id] title	presenter
14:05	[229] The impact of small-scale heterogeneities on residual trapping: case study from the Otway CO2 storage site	SPURIN, Catherine
14:20	[62] 4D X-ray micro-velocimetry during imbibition: snap-off, ganglia remobilization and interfacial drag	ELLMAN, Sharon
14:35	[571] Quantifying Threshold Capillary Pressure in Sedimentary Matrix-Lamina Bedding Pairs using Pore-Scale Simulation	LARSON, Richard

Wednesday, 21 May 2025

MS06-A: 3.2 (11:35 - 13:05)

time	[id] title	presenter
11:35	[252] Nonequilibrium multiphase flow and thermodynamic phase change in nanoporous shale rocks: Pore-level physics, network modeling, upscaling	CHEN, Sidian
11:50	[306] Preferential flow of dispersed fluid through doublet system	Dr QI, Jie
12:05	[372] Accelerating multiphase simulations with denoising diffusion model driven initializations	Dr E. SANTOS, Javier
12:20	[548] Fluid-fluid interface dynamics in an imperfect Hele-Shaw cell: A novel computational method for hysteresis and energy dissipation	Dr CHUBYNSKY, Mykyta V.
12:35	[523] Experimental evaluation of capillary retention of CO ₂ in saline aquifers	PERES, Rayana
12:50	[547] Interpretation of an Interwell Partitioning Tracer Test in a Multi-layer Carbonate Reservoir	FONTALVO, Samuel

MS06-A: 3.3 (14:05 - 15:05)

time	[id] title	presenter
14:05	[289] The microscale dynamics of water films during evaporative precipitation of minerals in porous media	WENSINK, Gijs
14:20	[300] Cross-scale investigation of coupled mineral dissolution and precipitation with gas exsolution in porous media	POONOOSAMY, Jenna
14:35	[526] Dynamics of brine drying and salt precipitation and growth in porous media during CO ₂ injection	ZHOU, Tongke
14:50	[369] Fluid Distributions for Drainage in Open Rough-walled Fractures with Smoothly Varying Aperture	NEUWEILER, Insa

Thursday, 22 May 2025

MS06-A: 4.3 (14:45 - 15:45)

time	[id] title	presenter
14:45	[33] Performance of cyclic injections in soft granular media: Trapping efficiency and hysteretic behaviour	ZHONG, Haiyi
15:00	[359] DNS of gas-liquid multiphase flow through FIB-SEM obtained cement-based microstructure	Dr MALENICA, Luka
15:15	[141] Simulation of Microcapsule Transport in Geothermal Reservoir Porous Matrices	KIBIKAS, William
15:30	[155] Experimental study on spontaneous imbibition characteristics of tight glutenite reservoirs	Prof. YOU, Zhenjiang