

InterPore2023

Monday, 22 May 2023

MS06-B: 1.2 (13:45 - 15:45)

time	[id] title	presenter
13:45	[259] Pore-scale mass transfer model of capillary trapping dissolution based on Sherwood, Reynolds, and Schmidt number	Dr PATMONOAJI, Anindityo
14:00	[347] Deformation-driven collapse of gas cavities in a soft porous medium	MACMINN, Chris
14:15	[785] Bubble Coarsening Kinetics in Porous Media	Dr XU, Ke
14:30	[1066] Use of surfactants to enhance the CO ₂ storage capacity in the geologic carbon storage	Dr JOO YONG, Lee
14:45	[398] Interfacial interaction of a porous periodic topology adjacent to a turbulent fluid flow by highly resolved PIV measurements	FUHRMANN, Tobias
15:00	[861] Singularities and surprises in porous media models of interfacial non-Newtonian flows	DARIPA, Prabir
15:15	[446] Impact of CO ₂ concentration in gas phase on foam behavior in carbonate rocks	Dr DA FONSECA FAÇANHA, Juliana Maria
15:30	[510] The traveling wavefront for foam flow in multi-layer porous media	CHAPIRO, Grigori

Tuesday, 23 May 2023

MS06-B: 2.1 (09:30 - 10:30)

time	[id] title	presenter
09:30	[325] The Influence of Viscosity and Wettability on Immiscible Fluid Displacements in Porous Media	RABBANI, Harris
09:45	[694] The Effect of Porous Medium Wettability on the Relationship Between Capillary Pressure, Saturation, and Interfacial Area for Three-Phase Flow	WILDENSCHILD, Dorthe
10:00	[839] Systematic study of wettability alteration of glass surfaces by dichlorooctamethyltetrasiloxane silanization; a guide for contact angle modification	VUKOVIC, Tomislav

Wednesday, 24 May 2023

MS06-B: 3.1 (09:30 - 10:30)

time	[id] title	presenter
09:30	[118] Experimental investigation of two-phase flow with a table-top optical scanner: the competition between viscous and gravitational effects under different boundary conditions	Dr MOURA, Marcel
09:45	[293] Transport of hydrophobic nanoparticles in partially saturated porous media: Attachment at fluid interfaces	Ms RAHHAM, Youssra
10:00	[663] Drainage pore-invasion patterns in porous media: role of interfacial dynamics	Dr ROMAN, Sophie

MS06-B: 3.2 (12:00 - 13:00)

time	[id] title	presenter
12:00	[95] A molecular simulation study for interfacial tensions, solubilities, and transport properties of the H ₂ /H ₂ O/NaCl system relevant for Underground Hydrogen Storage	VAN ROOIJEN, Willemijn
12:15	[368] Multiphase relaxation processes at the μm -to-cm scale during storage of gases in rocks	ELLMAN, Sharon
12:30	[669] Surface relaxivity and its role in permeability prediction	LEIDERMAN, Ricardo
12:45	[941] Irreversible processes, inertial effects, and collective filling in geometries of increasing complexity	Dr LUNATI, Ivan

Thursday, 25 May 2023

MS06-B: 4.2 (14:00 - 15:30)

time	[id] title	presenter
14:00	[36] Exploring the Influence of Interfacial Processes on the Transport and Retention of PFAS in AFFF-Contaminated Soils	ABRIOLA, Linda
14:15	[396] Mixing as restart - The role of interface shear in fluid-solid reaction efficiency under chaotic advection	AQUINO, Tomas
14:30	[488] Recent Advances in Modelling Reactive Interfaces in Pore-Scale Simulations	SOULAINÉ, Cyprien
14:45	[504] Direct nanoscale investigation of calcite dissolution kinetics	RECALCATI, Chiara
15:00	[554] Adsorption, ion exchange, and surface complexation models for rock-fluid-fluid interactions: an overview and a new implementation in REAKTORO	EFTEKHARI, Ali Akbar
15:15	[721] Modeling interfaces explicitly with an embedded-boundary finite-volume method across applications	MOLINS, Sergi