

InterPore2023

Monday, 22 May 2023

MS06-A: 1.1 (10:50 - 12:35)

time	[id] title	presenter
10:50	[262] Derivation of 2-Phase Darcy Equations from Pore Scale Energy Dynamics using Non-Equilibrium Thermodynamics	Dr BERG, Steffen
11:05	[468] Homogenized Lattice Boltzmann Model for Simulating Multi-Phase Flows in Heterogeneous Porous Media	LAUTENSCHLÄGER, Martin
11:20	[417] A Thermodynamically Consistent Model for Compositional Multiphase Flows	SMAI, Farid
11:35	[303] NAPL dissolution and transport in porous media: Upscaling the Mass Exchange Coefficient	TINET, Anne-Julie
11:50	[593] Upscaled model for two-phase flow in porous media	Dr LASSEUX, Didier
12:05	[949] Pseudo-Thermodynamics of Immiscible Two-Phase Flow in Porous Media: Differential Geometry and Convenient Coordinates	PEDERSEN, Håkon
12:20	[665] Two-phase non-linear flow in Pore Network Model	LANZA, Federico

MS06-A: 1.3 (17:00 - 18:00)

time	[id] title	presenter
17:00	[836] Tortuosity-governed droplet transport in a microfluidic porous network	SPEIRS, Elliot
17:15	[848] A simplified pore-scale model for drainage including film flow effects	Dr REIS, Paula
17:30	[190] Model of water drop infiltration in porous media with amphiphilic matter	CAJOT, Florian
17:45	[876] Capillary entry pressure in soft porous media	CUTTLE, Callum

Tuesday, 23 May 2023

MS06-A: 2.2 (12:00 - 13:00)

time	[id] title	presenter
12:00	[24] Rheology and Mobility Critical Exponent of Immiscible Two-Phase Flow in Porous Media with Dual-Wettability Grains	FYHN, Hursanay
12:15	[392] Micromodel of a gas diffusion electrode tracks in-operando pore-scale wetting phenomena	BROSCH, Sebastian
12:30	[123] New insights into the mechanisms leading to the formation of localised pathways in water-saturated clayey geomaterials exposed to pressurised non-wetting fluid emulating supercritical CO ₂	Mr ALLSOP, Craig
12:45	[901] Characteristics of fluid-fluid displacement in model mixed-wet porous media	ZHAO, Benzhong

MS06-A: 2.3 (14:15 - 15:30)

time	[id] title	presenter
14:15	[160] Investigation of factors affecting the performance of surfactant and polymer floods in sandstone cores aided by X-ray CT imaging	ROVELLI, Andrea
14:30	[343] ET-MIP: A coupled model approach to simulating the fate and transport of CO ₂ in overburden	ASHMORE, Nicholas
14:45	[644] An Experimental Study of Drying in Porous Media Using Novel 2D Micromodels with Dual Porosity	Dr LI, Yaofa
15:00	[213] Simulation of CO ₂ -Brine Primary Displacement in heterogeneous carbonate rocks	AMROLLAHINASAB, Omidreza
15:15	[611] Characterisation of multiphase flow in heterogeneous rocks	Dr AN, Senyou

Wednesday, 24 May 2023

MS06-A: 3.3 (14:15 - 15:30)

time	[id] title	presenter
14:15	[339] Analytical and numerical investigations of imbibition in porous media	Mr AGARWAL, Akshit
14:30	[959] Dissolution of trapped CO ₂ in carbonates rock at high pressure and high temperature conditions using X-ray micro-tomography	MAZELI, Abdul Hakim
14:45	[517] Trapping Behavior of Gases from 4D Pore Scale Imaging	Dr SOROP, Tibi
15:00	[124] Multiphase flow dynamics effect on microscale phase configuration	Dr BEN-NOAH, Ilan
15:15	[814] Nonequilibrium and cooperative behavior in quasistatic fluid-fluid displacements underpin energy dissipation and hysteresis in the passage through constrictions	HOLTZMAN, Ran

Thursday, 25 May 2023

MS06-A: 4.1 (09:15 - 10:45)

time	[id] title	presenter
09:15	[779] Competitive adsorption of CO ₂ and CH ₄ in functionalized amorphous-silica nanopores	TURCHI, Mattia
09:30	[802] Bridging the continuum and discrete models developed to simulate solute transport and distribution in drying porous media	CHEN, Jing
09:45	[797] Dewatering and consolidation of clay slurries	Mr MYOURI, Ismail
10:00	[880] Effects of molecular details on two-phase flows through nanopores	Dr JOHANSSON, Petter
10:15	[920] Melting Kinetics of Permafrost under Overlaying Saline Water	WANG, Yumin
10:30	[994] Droplets at Liquid-Fluid Interfaces: Pressure Field and Coalescence	DAVALOS MONTEIRO, JOSE LUIZ