InterPore2023 / Programme Monday, 22 May 2023

InterPore2023

Monday, 22 May 2023

MS01: 1.1 (10:50 - 12:35)

time	[id] title	presenter
	[509] Effect of rock heterogeneity on pore-scale fluid displacement in a layered sandstone for underground hydrogen storage	JANGDA, Zaid
11:05	[1000] Ostwald Ripening Investigation using 3D Micro-CT Imaging	Mr DOKHON, Waleed
11:20	[94] Energy Storage in Unconventional Formations	Ms SAMARA, Hanin
11:35	[261] Impact of capillary pressure hysteresis on Underground Hydrogen Storage	NAZARI, Farzaneh
11:50	[957] Visualizing the Effect of Gravity on Hydrogen Redistribution at Pore Scale	Dr SHAHROKHI, Omid
	[871] Trapping, Hysteresis and Ostwald Ripening in Hydrogen Storage: A Pore-Scale Imaging Study	Ms GOODARZI, Sepideh
	[751] Microfluidic hydrogen storage capacity and residual trapping during cyclic injections	LYSYY, Maksim

MS01: 1.3 (17:00 - 18:00)

time	[id] title	presenter
	[753] Underground hydrogen storage and in-situ gas conversion: macroscopic investigation on reactive transport mechanisms	STIEDL, Gerald
	[264] Geochemical reactions of iron oxides with hydrogen in the porespace of sandstones: Processes, kinetics & limitations of the extent of reaction.	OSTERTAG-HENNING, Christian
17:30	[592] Impact of microbial activity on hydrogen transport in porous reservoirs across scales	Dr BOON, Maartje
17:45	[896] Pore-scale observations of hydrogen trapping and migration in porous rock	Prof. ZHANG, Yihuai

InterPore2023 / Programme Tuesday, 23 May 2023

Tuesday, 23 May 2023

<u>MS01: 2.1</u> (09:30 - 10:30)

time	[id] title	presenter
09:30	[201] On the conceptual role of permeability contrasts within sandstone utilised for underground hydrogen storage	SMITH, Doug
09:45	[280] Salinity gradients and salt precipitation due to hydrogen injection in saline aquifers and reservoirs	KALYONCU, Gulce
10:00	[855] Caprock sealing capacity for underground hydrogen storage; Kimmeridge Clay	SLABON, Lubica
10:15	[681] Impact of hydrogen trapping in underground porous formations on recovery efficiencies during interseasonal storage injection and withdrawal cycles	EDLMANN, Katriona

MS01: 2.2 (12:00 - 13:00)

time	[id] title	presenter
12:00	[30] The Impact of Capillary Heterogeneity on CO2 Plume Migration at the Endurance CCS Target Site in the UK – A Core To Field Scale Study	WENCK, Nele
12:15	[67] Experimental study of the sealing properties of cement plug during the early age	NGOUAMBA, Elie
12:30	[78] Mineral Dissolution on Geological Carbon Storage in Carbonates: A Microcalorimetric Study	Dr COBOS, Jacquelin
12:45	[23] On the modelling of Joule-Thomson Effects: Analytical and Numerical Formulations	Dr GONCALVES MACHADO, Cintia

MS01: 2.3 (14:15 - 15:30)

time	[id] title	presenter
	[938] Experimental investigation of CO2 dissolution in Ca2+ rich aquifer with precipitation reaction	ZHENG, Shuai
14:30	[385] Management of salt precipitation for large-scale CO2 storage projects	GASDA, Sarah
	[547] Sensitivity Analysis of CO2 Mineralization Trapping during CO2 Sequestration	BELLO, Ayomikun
	[269] Gas trapping dynamics in heterogeneous sandstones imaged using synchrotron time-lapse tomography.	HARRIS, Catrin
15:15	[147] 3D X-Ray Visualization of Rayleigh-Bénard Instability in a Porous Medium	Prof. SUEKANE, Tetsuya

Wednesday, 24 May 2023

MS01: 3.1 (09:30 - 10:30)

time	[id] title	presenter
09:30	[459] Understanding the impact of carbon mineralisation on the flow properties of basalts	Dr STAVROPOULOU, Eleni
	[467] Insights into safe CO2 injection and storage scenarios in tight chalk reservoir samples	Dr FEILBERG, Karen
10:00	[489] Effects of Thermal Shocks on Cement for CCS under Confined and Unconfined Conditions	Dr LI, Kai
10:15	[505] Injectivity losses in sandstones during CO2 hydrates formation	Mr MASCLE, Matthieu

MS01: 3.2 (12:00 - 13:00)

time	[id] title	presenter
12:00	[514] Experimental measurements on caprock CO ₂ -water wettability at reservoir pressure and temperature	Prof. ESPINOZA, D. Nicolas
12:15	[1037] Insights into sandstone wettability alteration during cyclic scCO\$_2\$-brine injections	HERRING, Anna
12:30	[662] The effect of mixed convection and hydrodynamic dispersion on CO2 dissolution in saline aquifers	ROSENZWEIG, Ravid
	[687] A robust and efficient deep-learning-based surrogate model for CO2 storage in deep saline aquifers	Ms ZHAO, Mengjie

MS01: 3.3 (14:15 - 15:30)

time	[id] title	presenter
14:15	[703] CT visualization of the CO2 degassing process in porous media	BOEIJE, Chris
	[774] A micro-scale study of CO2 mobility control characteristics of a green foam in porous media	ZHOU, Tongke
	[809] Calibration curve generation for the use of Xenon as a pressure indicator in porous media using micro computed tomography	Mr WILLEMSZ, Mark
15:00	[833] Influence of Capillarity on Salt Precipitation during Primary CO2-Brine Displacement	JAMMERNEGG, Boris

InterPore2023 / Programme Thursday, 25 May 2023

Thursday, 25 May 2023

MS01: 4.1 (09:15 - 10:45)

time	[id] title	presenter
09:15	[608] Multi-scale and dynamic imaging of shales and mudstone: increasing understanding of sealing ability for sub-surface storage	MA, Lin
09:30	[870] Microfluidic Study of CO2 Dissolution Dynamics under Geological Sequestration Conditions	Dr YU, Wei
09:45	[887] In Situ Imaging of Dynamic Processes in Chalk	Mr RASMUSSEN, Peter Winkel
10:00	[937] Mineral Carbonation Sensitivity to Hydrogeologic Heterogeneity of Basaltic Aquifers	AWOLAYO, Adedapo
10:15	[946] Time-lapse imaging of fine particle movement in porous materials	Ms SHI, CHENZI
10:30	[432] Properties of restructuring porous media for thermochemical energy storage	GOLLSCH, Marie

MS01: 4.2 (14:00 - 15:30)

time	[id] title	presenter
14:00	[114] Water vapor transport in porous salt hydrate particles in view of energy storage	AARTS, Joey
14:15	[356] he moisture and temperature evolution in a zeolite heat storage reactor during cycling: an NMR study	Dr PEL, Leo
14:30	[289] Engineering ordered porous structure with direct additive-manufacturing approach for solar thermochemical fuel production	Dr XU, Da
14:45	[579] An image-based sphere insertion method for porous media drainage simulations with gravity	Mr CHADWICK, Eric A.
15:00	[701] Identification and understanding of colloidal destabilization mechanisms in geothermal processes	FLEURY, Marc
15:15	[795] Fracture permeability evolution as a result of geochemical granite alteration in geothermal systems	HARPERS, Nick