InterPore2023

Monday, 22 May 2023

MS03: 1.1 (10:50 - 12:35)

time	[id] title	presenter
10:50	[518] Multicontinuum non-equilibrium theory for coupled flow and deformation in fractured rocks	DENTZ, Marco
11:05	[474] Shear Displacement Predictions in Fractured Rock Based on Global vs. Resolved Stress	CONTI, Giulia
11:20	[435] New algorithms for numerical simulation of multiple hydraulic fractures in low permeability rocks	Dr WANG, Yuxiao
11:35	[46] Multiscale poromechanical model for naturally fractured coal seam reservoir considering non-linear fracture deformation and adsorption effects	Dr LE, Tien Dung
11:50	[692] Developing Methods to Assess Changes in Mechanical Properties of Shale Modified by Engineered Mineral Precipitation	BEDEY, Kayla
12:05	[50] A generalised phase-field model for fluid-driven dynamic fracture propagation in porous media	Dr DU, Kou
12:20	[257] Numerical simulation of hydroshearing in fractured crystalline rock at the Bedretto Underground Laboratory (Switzerland)	Mr VAEZI, Iman

MS03: 1.2 (13:45 - 15:45)

time	[id] title	presenter
13:45	[32] Linkage between extended poroelasticity and micromechanics	Dr ADAMUS, Filip
14:00	[495] A six (+1) field formulation for flow in porous media with fractures and barriers	Prof. SCIALÒ, Stefano
14:15	[708] Multipoint mixed FEM for rotation-based poroelasticity with faults	Dr FUMAGALLI, Alessio
14:30	[224] A discontinuous approximation for modeling multiphase flow and transport in complex porous media structures	Ms AL KUBAISY, Jumanah
14:45	[60] A New Upscaling Strategy for Flow in Fractured Porous Media	Mr STALDER, Daniel
15:00	[82] Modeling Matrix-Fracture Fluid Leakage in Fractured Rocks Using Multi-Scale Darcy-Brinkman-Stokes Approach	RAO, Xiang
15:15	[536] Single-phase flow simulations in large-scale fractured porous media : solver challenges	ZEGARRA VASQUEZ, Daniel
15:30	[382] Impact of artificial topological changes on flow and transport through fractured media due to mesh resolution	Dr PACHALIEVA, Aleksandra

MS03: 1.3 (17:00 - 18:00)

time	[id] title	presenter
17:00	[61] Visualising Two-Phase Flow in a Natural Geological Fracture Using Synchrotron Imaging	Prof. BUSCH, Andreas

17:15	[993] Particle-laden fluid flow in fractures: particle transport, deposition and clogging	HAFEZ, Ahmed
17:30	[879] Elastic normal fracture deformation in thermoporomechanical media	Dr STEFANSSON, Ivar
17:45	[520] The importance of understanding hydrothermal alteration in fault related geothermal systems in Cornwall	FORBES INSKIP, Nathaniel

Tuesday, 23 May 2023

MS03: 2.1 (09:30 - 10:30)

time	[id] title	presenter
09:30	[894] Bridging the gap between lab experiments and mixed-dimensional modeling for flow and transport in fractured media	BOTH, Jakub
09:45	[358] An REV-scale model for dissolution of porous rocks	Prof. LADD, Anthony
10:00	[375] Exploring the limits of semi-analytical matrix diffusion	SWEENEY, Matthew
10:15	[561] About long time asymptotic solutions of non-linear counter current two-phase flow in rock matrix blocks	NOETINGER, Benoit

MS03: 2.2 (12:00 - 13:00)

time	[id] title	presenter
12:00	[540] Intermediate-scale experimental study and modeling of effects of caprock fracturing on brine contamination of shallow aquifers during storage of CO2 in deep saline geologic formations	Prof. ILLANGASEKARE, Tissa
12:15	[641] Multiscale modelling of CO2 storage in coal seams: an image-based modelling method	Dr JING, Yu
12:30	[498] Impact of matrix diffusion on heat transport through heterogeneous fractured aquifers	Dr DE SIMONE, Silvia
12:45	[87] A wave-mediated effective diffusion model for gas production from a semi-sealed system	Prof. CHEN, Kangping

MS03: 2.3 (14:15 - 15:30)

time	[id] title	presenter
14:15	[497] Physical models for fracture flow tests by 3D-scanning and -printing	KRÖHN, Michael
14:30	[476] A 3D Integrated Model of Porous Media and Fractured Rock for Interpretation of Subsurface DNAPLs Migration	Mr KIM, Taehoon
14:45	[597] Groundwater Model Development of a Fractured Crystalline Rock Site with Site-Specific Data	NORMANI, Stefano
15:00	[884] Condensation of vapor in a cracked sandstone revealed by in-situ rapid neutron tomography	NEMATI, Arash
15:15	[849] Particle deposition and clogging over rough natural fractures with surface attachments	Dr WANG, Bin