

InterPore2024

Monday, 13 May 2024

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

time	[id] title	presenter
17:00	[72] An Efficient Numerical simulation of Reactive Flow in Fractured Vuggy Carbonate Reservoirs Considering Hydro-Mechanical coupling effects	LIU, Kang
17:15	[146] Characteristics of CO2 Dissolution in Fractured Saline Aquifers	Dr LYU, Xiacong
17:30	[559] A new model for predicting conductivity under nonlinear fracture closure and proppant crushing grading curve evolution	WU, liansong
17:45	[420] Impact of corner-bridge flow on capillary pressure curve	Dr LAN, Tian

Tuesday, 14 May 2024

MS03: 2.1 (10:55 - 11:55)

time	[id] title	presenter
10:55	[74] Effects of cross-scale fracture surface roughness in crystalline host rocks on hydrodynamics	Mr ZHOU, Wenyu
11:10	[128] Numerical simulation of transport mechanisms for cyclic high-speed injection and production in fractured-vuggy underground gas storage	Dr TIAN, Ye
11:25	[209] A New Numerical Well-Test Model Using an Analytically Modified Embedded Discrete Fracture Model	Prof. CHEN, Zhiming
11:40	[245] Generalized framework for flow in fractured subsurface formations	STALDER, Daniel

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

time	[id] title	presenter
12:00	[191] Study on Foam Flow Behavior in Fractured-Vuggy Systems	Dr XU, Zhengxiao
12:15	[753] Experimental study on the effect of supercritical CO ₂ and acid alternative injection mode on the acid-etching behavior and conductivity of fracture in carbonate rocks	XU, Ke
12:45	[841] Bubble growth and induced flow characteristics in porous media under heating conditions	FENG, Zhi

MS03: 2.3 (14:00 - 15:30)

time	[id] title	presenter
14:15	[316] Research on Fracture Propagation Law of Shale Hydraulic Fracturing Based on Mineral Interface Effect	HOU, Mengru
14:30	[384] Prior ensemble based on geomechanical proxy model for data assimilation in naturally fractured reservoirs	LIEM, Michael
14:45	[582] Rigorous Derivation of Discrete Fracture Models for Darcy Flow in the Limit of Vanishing Aperture	HÖRL, Maximilian
15:15	[60] A tensorial representation of the hydraulic aperture of rough fractures under compressive and shearing stresses	Dr NICK, Hamid M.

Wednesday, 15 May 2024

MS03: 3.1 (10:55 - 11:55)

time	[id] title	presenter
10:55	[150] Phase-field modeling of hydraulic fracture with discrete crack topology	YOU, Tao
11:10	[419] Elementary Slip Solutions for Efficient Geomechanical Simulation of Fractured Rock	CONTI, Giulia
11:25	[903] Non-Isothermal Variational Phase-Field Modeling in Hydraulic Fracturing	WANG, xiaoqiang
11:40	[632] Interaction forces caused by relative movement in a continuum mechanical model for suffusion	BUSCHER, Solveig

MS03: 3.2 (12:00 - 13:00)

time	[id] title	presenter
12:00	[207] Non-Local Flow Description for Non-Space-Stationary Fractured Formations	CAO, Shangyi
12:15	[348] Modeling of micro-particle transport in supercritical CO ₂ over rough fractures	ZHOU, Qianqian
12:30	[368] Visualization and Quantification of micro-particle transport in rough fractures	ZHANG, Yaochen
12:45	[394] Homogenization of flow and solute transport in fractured media using hybrid upscaling method	WANG, Yujie

MS03: 3.3 (14:00 - 15:30)

time	[id] title	presenter
14:00	[1025] Thermo-hydraulic-Mechanical Modeling Studies of Cryogenic Effects in the Near-wellbore Region of Geothermal Formations	Dr WU, Yu-Shu
14:15	[583] Experimental and molecular simulation studies of methane adsorption on deep shales	Prof. SHEN, Weijun
14:30	[566] Investigating interface coupled mineral dissolution and precipitation processes using advanced analytical and modelling tools	POONOOSAMY, Jenna
14:45	[677] Wettability Impact on Immiscible Fluids Flow in Rough Fracture	Dr WU, dongsheng
15:00	[700] Quantifying the effect of matrix diffusion on tracer transport in fractured reservoirs	WU, Hui
15:15	[713] Fracture-matrix interaction, fluid flow and chemical movement in low-permeability fractured media	Prof. HU, Qinrong

Thursday, 16 May 2024

MS03: 4.1 (09:05 - 10:20)

time	[id] title	presenter
09:05	[234] Experimental Study of Liquid Cohesion Impact on Particle Clogging in Rock Fractures	Mr ZHANG, Renjun
09:20	[793] Dynamics of two-phase flow in coal using X-ray micro-computed tomography imaging and positron emission tomography	XI, Wen
09:35	[820] Effect of non-acid-soluble minerals on acid-etched hydraulic fracture morphology and conductivity for acid-fracturing in carbonate rock	Mr LIU, Zihao
09:50	[823] Dynamics of fluid flow in natural fracture networks	Mr BUI, Cuong
10:05	[840] A new multi-level discrete fracture model for multiphase flow in complex multi-scale fractured systems	LI, Longlong

MS03: 4.2 (11:50 - 12:50)

time	[id] title	presenter
11:50	[201] Countercurrent imbibition in shale with parallel dense fractures: analytical model and anisotropic relative permeability	YU, Fei
12:05	[383] Relative Permeability Cyclic Hysteresis and its Application in Improving the History Matching Quality and Evaluating Deliverability Capacity in a Fractured Carbonate Gas Reservoir Storage Field	Mr SUN, Junchang
12:20	[597] Differential Mechanisms of Acidic Fluid-induced Dissolution in Jurassic Ahe Formation Reservoirs across Various Locations within the Northern Structural Zone of the Kuqa Depression	ZHU, chaobin
12:35	[1046] Effect of mineral on mechanical behavior of granite after high-temperature treatment by particle flow simulation	WANG, Yahua

MS03: 4.3 (13:50 - 15:05)

time	[id] title	presenter
13:50	[406] A Darcy-Brinkman-Stokes Approach to Modeling Microbially Induced Calcium Carbonate Precipitation in Porous and Fractured Media	Ms LI, Xueying
14:05	[524] A pore-scale investigation of dispersion in two-phase flow with varied viscosity contrast in porous media	LI, Zijing
14:20	[1013] Effective Characterization of Fractured Media with PEDL: A Deep Learning-Based Data Assimilation Approach	Prof. NAN, Tongchao
14:35	[695] Pore-scale Modeling of Two-Phase Fluid Flow in the Fracturing-Shut In-Flowback Process of Tight Oil Reservoirs	LIU, Fangzhou