

InterPore2023

Wednesday, May 24, 2023

MS07: 3.2 (12:00 PM - 1:00 PM)

time	[id] title	presenter
12:00 PM	[661] Resonance, Rayleigh Flows and Thermal Choking: Convective Electromagnetic Energy Harnessing from Absorbing Porous Media.	TILLEY, Burt
12:15 PM	[843] Modeling plant water deficit by Richards' equation with a non-local root water uptake term	Dr BERARDI, Marco
12:30 PM	[519] Chemo-Hydro-Mechanical variational phase-field fracture model in cementitious systems	Dr MOLLAALI, Mostafa
12:45 PM	[208] Upscaling and Automation: New Opportunities for Multiscale Systems Modeling	Dr BATTIATO, Ilenia

MS07: 3.3 (2:15 PM - 3:30 PM)

time	[id] title	presenter
2:15 PM	[121] Recent Contributions to the Study of Immiscible Viscous Fingering	Prof. SORBIE, Kenneth
2:30 PM	[714] Global implicit solver for multiphase multicomponent flow in porous media with multiple gas components and general reactions	Dr KNODEL, Markus
2:45 PM	[617] A study of a non-equilibrium model with relative permeability hysteresis in two-phase water-oil system	Prof. ABREU, Eduardo
3:00 PM	[625] Compositional Multiphase Flow Simulation: Challenges and Treatment by Deep Learning	QIAO, Tian
3:15 PM	[769] Four-phase equilibrium calculation algorithm for water/hydrocarbon mixtures	JEX, Martin

Thursday, May 25, 2023

MS07: 4.1 (9:15 AM - 10:45 AM)

time	[id] title	presenter
9:15 AM	[899] A linear iterative scheme for reactive flow in a porous medium	Prof. POP, Iuliu Sorin
9:30 AM	[43] Hyperbolic Systems for Strongly Coupled Multi-Phase Flow and Transport in the Sub-Surface	JENNY, Patrick
9:45 AM	[633] A Lagrange multiplier method for the fully dynamic Navier-Stokes - Biot system	YOTOV, Ivan
10:00 AM	[626] Sub-grid Modeling in a Particle-based Approach: Regularization of Non-linear Hyperbolic Conservation Law	Mr MONGA, Ranit
10:15 AM	[693] Multiscale Extended Finite Element Method for the Simulation of Contact – Frictional Behaviors of Fractures Under Compression	Mr XU, Fanxiang
10:30 AM	[247] 3D modeling of macro-segregation and formation of freckles in solidification based on the fully decoupled enthalpy-porosity method	Mr FENG, Xiaoyu

MS07: 4.2 (2:00 PM - 3:30 PM)

time	[id] title	presenter
2:00 PM	[8] The Darcy-type boundary condition on a porous wall	Prof. PAŽANIN, Igor
2:15 PM	[463] Numerical Simulation of Effective Models for Transport Processes in Deformable Porous Media within Mixed Eulerian/Lagrangian Framework	Mr KNOCH, Jonas
2:30 PM	[223] Coupled LBM-DEM model and its application to droplet impact on deformable porous media	FEI, Linlin
2:45 PM	[482] Upscaling investigations of dissolution using machine learning and GeoChemFoam	MENKE, Hannah
3:00 PM	[3] Multiscale modelling of plant nitrogen use efficiency	Prof. ROOSE, Tiina
3:15 PM	[508] Investigations of Degenerate Equations for Fluid Flow and Reactive Transport in Clogging Porous Media	SCHULZ, Raphael