Wednesday, 24 May 2023

<u>MS07: 3.2</u> (12:00 - 13:00)

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

<u>MS07: 3.3</u> (14:15 - 15:30)

time	[id] title	presenter
14:15	[121] Recent Contributions to the Study of Immiscible Viscous Fingering	Prof. SORBIE, Kenneth
14:30	[714] Global implicit solver for multiphase multicomponent flow in porous media with multiple gas components and general reactions	Dr KNODEL, Markus
14:45	[617] A study of a non-equilibrium model with relative permeability hysteresis in two-phase water-oil system	Prof. ABREU, Eduardo
15:00	[625] Compositional Multiphase Flow Simulation: Challenges and Treatment by Deep Learning	QIAO, Tian
15:15	[769] Four-phase equilibrium calculation algorithm for water/hydrocarbon mixtures	JEX, Martin

Thursday, 25 May 2023

<u>MS07: 4.1</u> (09:15 - 10:45)

time	[id] title	presenter
09:15	[899] A linear iterative scheme for reactive flow in a porous medium	Prof. POP, Iuliu Sorin
09:30	[43] Hyperbolic Systems for Strongly Coupled Multi-Phase Flow and Transport in the Sub-Surface	JENNY, Patrick
09:45	[633] A Lagrange multiplier method for the fully dynamic Navier-Stokes - Biot system	YOTOV, Ivan
10:00	[626] Sub-grid Modeling in a Particle-based Approach: Regularization of Non-linear Hyperbolic Conservation Law	Mr MONGA, Ranit
10:15	[693] Multiscale Extended Finite Element Method for the Simulation of Contact – Frictional Behaviors of Fractures Under Compression	Mr XU, Fanxiang
10:30	[247] 3D modeling of macro-segregation and formation of freckles in solidification based on the fully decoupled enthalpy-porosity method	Mr FENG, Xiaoyu

<u>MS07: 4.2</u> (14:00 - 15:30)

time	[id] title	presenter
14:00	[8] The Darcy-type boundary condition on a porous wall	Prof. PAŽANIN, Igor
14:15	[463] Numerical Simulation of Effective Models for Transport Processes in Deformable Porous Media within Mixed Eulerian/Lagrangian Framework	Mr KNOCH, Jonas
14:30	[223] Coupled LBM-DEM model and its application to droplet impact on deformable porous media	FEI, Linlin
14:45	[482] Upscaling investigations of dissolution using machine learning and GeoChemFoam	MENKE, Hannah
15:00	[3] Multiscale modelling of plant nitrogen use efficiency	Prof. ROOSE, Tiina
15:15	[508] Investigations of Degenerate Equations for Fluid Flow and Reactive Transport in Clogging Porous Media	SCHULZ, Raphael