

Session Program

May 30, 2022 to June 2, 2022



InterPore2022

MS06-A

Mon, May 30

10:50 AM

MS06-A: Parallel Oral Session 1B

Session

10:50 - 11:05 AM

Dynamic Mode Decomposition (DMD) for Analyzing Dynamics in Multiphase Flow in Porous Media

Speaker

Catherine Spurin

11:05 - 11:20 AM

From Darcy flow to fingering instabilities in a fluid-driven silo

Speaker

Miles Morgan

11:20 - 11:35 AM

Temperature Dependency of Steady-State Relative Permeability Curves: Aquistore CO2 Storage Site, Canada

Speaker

Dr Amir Haghi

11:35 - 11:50 AM

Quantitative determination of the threshold pressure for a discontinuous phase to pass through a constriction using microscale simulation

Speaker

Mr Gloire Imani

11:50 AM - 12:05 PM

Investigating the pore scale mechanism of miscible phases mixing in porous medium 2D

Speaker

Ms Yahel Eliyahu-Yakir

12:05 - 12:20 PM

Transition from viscous fingers to compact displacement during unstable drainage in porous media

Speaker

Dr Marcel Moura

12:20 PM

Tue, May 31

2:20 PM

MS06-A: Parallel Oral Session 5B

Session

2:20 - 2:35 PM

The influence mechanism of pore structural properties on gas hydrate saturation and permeability via micro-CT technology

Speaker

Prof. Huaimin Dong

2:35 - 2:50 PM

Advanced Digital-SCAL measurements of gas trapping in sandstone

Speaker

Dr Ying Gao

2:50 - 3:05 PM

Pore-scale imaging of hydrogen in porous media

Speaker

Yihuai Zhang

3:05 - 3:20 PM

Diffusion of methane and carbon dioxide within flexible kerogen from molecular dynamics simulations

Speaker

Ms Kristina Ariskina

3:20 PM

Wed, June 1

10:30 AM

MS06-A: Parallel Oral Session 7B

Session

10:30 - 10:45 AM

Predicting and measuring pore-scale capillary pressures associated with meniscus movements during slow imbibition

Speaker

Sharon Ellman

10:45 - 11:00 AM

A quantitative study of oil mobilization induced by water diffusion in n-alkane phases: from pore-scale experiments to molecular dynamic simulation

Speaker

LIFEI YAN

11:00 - 11:15 AM

Jaynes Statistical Mechanics Applied to Multiphase Flow in Porous Media

Speaker

Alex Hansen

11:15 - 11:30 AM

Extension and Uncertainty Modeling of Imbibition Processes using the Morphological Method - a Reality Check

Speaker

Pit Arnold

11:30 - 11:45 AM

Viscous, gravitational and capillary forces in 3D experiments with a synthetic porous media

Speaker

Joachim Falck Brodin

11:45 AM - 12:00 PM

Thermodynamics of continuum scale immiscible and incompressible two-phase flow in porous media: A statistical mechanics approach using the Color Lattice-Boltzmann model

Speaker

Mr Håkon Pedersen

12:00 - 12:15 PM

PORE-TO-CORE LINKAGES AND UPSCALING FOR GAS INJECTION (CO₂ STORAGE, EOR) IN CARBONATES

Speaker

Dr Senyou An

12:15 PM

2:05 PM

MS06-A: Parallel Oral Session 8B

Session

2:05 – 2:20 PM

Preferential Flow of Emulsion through Homogeneous Porous Media

Speaker

Dr Ke Xu

2:20 – 2:35 PM

Hysteresis in Contact Angle and Interfacial Tension: Implications on Multiphase Flow

Speaker

Dr Qi Liu

2:35 – 2:50 PM

Dynamic Behaviours of Foam Flooding assisted by Newtonian and non-Newtonian Viscosifying Agents in Porous Media

Speaker

Seyed Mojtaba Hosseini-Nasab

2:50 PM

Thu, June 2

1:30 PM

MS06-A: Parallel Oral Session 12B

Session

1:30 - 1:45 PM

Direct prediction of fluid-fluid displacement efficiency in ordered porous media using the pore structure

Speaker

Tian Tian Lan

1:45 - 2:00 PM

Sol-gel transition in porous media by drying

Speaker

Romane Le Dizès

2:00 - 2:15 PM

Surface-Active Compounds Induced Time-Dependency and Non-Monotonicity in Fluid-Fluid Displacement in Porous Media

Speaker

Dr YUJING DU

2:15 - 2:30 PM

A mathematical model of oil-water spontaneous imbibition with dynamic contact angle in the fractal porous media of tight reservoirs

Speaker

Lixin Kang

2:30 - 2:45 PM

Wettability effect on Pore-filling events during two-phase flow

Speaker

Johannes Müller

2:45 - 3:00 PM

The Transition from Connected to Disconnected Pathway Flow Regime : Understanding the Combined Effects of Wettability and Flowrate

Speaker

Rumbidzai Nhunduru

3:00 - 3:15 PM

Ion composition effect on spontaneous imbibition in limestone cores.

Speaker

Mr Raymond Mushabe

3:15 PM