Session Program

31 May 2021 to 4 June 2021

InterPore2021

MS10

Monday 31 May

15:10

MS10: MS10 (1)

Session

15:10–15:25

In-Situ Micro-CT Studies to Understand the Role of Salt Precipitation during CO_2 Storage in Saline Aquifers

Speaker
Mr Puyan Bakhshi

15:25–15:40

A framework to map pore volume change and mineral dissolution/precipitation of wellbore cement exposed to high concentration CO2 using micro-CT images

Speaker
Prof. Liwei Zhang

15:40–15:55

A Novel Technique of Image Analysis on Foam in Fractures

Speaker
Prof. William Rossen

15:55–16:10

Magnetic Resonance and Magnetic Resonance Imaging of Porous Media – Recent Developments

Speaker
Dr Armin Afrough

16:10–16:25

Spontaneous imbibition dynamics in yarns and knit stitches by fast X-ray tomography and free energy analysis

Speaker
Robert Fischer

16:25–16:40

Use of topological principles to determine wettability from pore-scale images

Speaker
Luke Kearney

16:55

Thursday 3 June

18:00

MS10: MS10 (2)

Session

18:00–18:15

How to capture centimeter-scale local variations in the pore space of paper: A benchmark study using µ-CT

Speaker
Prof. Karin Zojer

18:15–18:30

Non-destructive 3D mapping of mineral composition and clay mineral orientation in shale

Speaker
Mr Fredrik K. Mürer

18:30–18:45

Automatic cracks detection in 3D µCT images using DVC total variation strain regularization

Speaker
Zaira Manigrasso

18:45–19:00

4D µCT reconstruction with improved time resolution for imaging fluid flow in porous media

Speaker
Mr Wannes Goethals

19:00–19:15

MATBOX, an Open-Source Microstructure Analysis Toolbox for Meshing, Generation, Segmentation, and Characterization of 3D Heterogenous Volumes

Speaker
Dr Francois Usseglio-Viretta

19:15–19:30

Improved Watershed-based Pore Space Partitioning Algorithm for Pore Network Modelling

Speaker
Dr Zeyun Jiang

19:30–19:45

Benchmarking Conventional and Machine Learning Segmentation Techniques for Analysis of Digital Rock Physics Properties

Speaker
Marcel Reinhardt

20:00