



SOCIETY OF
CORE ANALYSTS

SCA 2021

Monday, Sep 13

06:00 AM - 01:00 PM

How to navigate SCA2021 on Pheedloop

Dear all, Welcome to the digital SCA2021 conference! In the video above you will get a quick intro on how to navigate this Pheedloop webpage. Note that the sessions this year is organized more along speaker location than on topic, so the topic names will not always perfectly match the content - they should more be considered as a guide. Please enjoy the digital conference! Regards, The online conference team

Monday, Sep 13: Conference Room A

08:00 AM - 10:30 AM

SCA2021 Welcome and Workshop

Conference Room A

Welcome to online conference Workshop part 1 Workshop (LIVE) part 2 Workshop discussion (LIVE)

Monday, Sep 13: Conference Room A

11:00 AM - 12:30 PM

Session 01 – Americas - From core to field

Boost the value of core data (whole core imaging, multi-scale integration through imaging, automation of work processes, etc.)

Conference Room A

M. J. Dick
Green Imaging Technology

Rafael Salazar-Tio
Dassault Systemes

Tanguy Lhomme
Epslog, **Core Technical Services

U004 Multiscale Digital Rocks: Application of a multi-scale multi-phase workflow to a Carbonate reservoir rock U006
Combining high-resolution core data with unsupervised machine learning schemes for the identification of rock types and the prediction of reservoir quality U031 NMR Core Analysis On Whole Core Samples

Tuesday, Sep 14: Conference Room A

03:00 AM - 04:30 AM

Session 02 – Europe/Africa/Middle East - From core to field

From core to field: Boost the value of core data + Pore Scale Imaging and Modelling

Conference Room A

Evgeny Ivanov
Schlumberger

Igor Varfolomeev
Schlumberger

Nele Wenck
Imperial College London

U018 Acid treatment optimization based on digital core analysis U020 Advanced Core Characterisation to Improve Multiphase Flow Prediction in Heterogeneous Sandstone and Carbonate Rocks T104 3D multiclass digital core models via microCT, SEM-EDS and deep learning

Tuesday, Sep 14: Conference Room A

08:00 AM - 09:30 AM

Session 03 – Europe/Africa/Middle East - Pore scale Imaging and Modeling

Conference Room A

Malin Haugen
University of Bergen

Mohamed Regaieg
TOTAL S.A.

Nikolay Evseev
Schlumberger

U019 Large two phase DRP simulations for relative permeability uncertainty assessment U023 Calcite-functionalized micromodels for pore-scale investigations of CO₂ storage security T002 The Problem of Stability of Gas-Condensate Mixture at Pore-Scale: The Study by Density Functional Hydrodynamics

Tuesday, Sep 14: Conference Room A

11:00 AM - 12:30 PM

Session 04 – Americas - Pore scale Imaging and Modeling

Pore Scale Imaging and Modelling + Improved SCAL Techniques and Interpretation

Conference Room A

Ahmed Zankoor
University of Wyoming

David K. Potter
University of Alberta

Jorge Andres Tovar
Universidade Estadual de Campinas

U041 In-situ characterization of capillary pressure during three-phase flow in porous media T064 Study of Relative Permeability Curves for a CO₂-Brine System at Reservoir Conditions in Carbonates T049 Comparing Predicted 3D Anisotropic Properties from Micro-CT Derived Digital Rock Physics with Experimentally Measured Anisotropy

Tuesday, Sep 14: Conference Room A

06:00 PM - 07:30 PM

Session 05 – Asia/Australia - Advanced imaging and EOR

Conference Room A

Ausama Giwelli
CSIRO

Bruno da Silva Falcão
CSIRO Energy BU

Fatimah Alzubaidi
University of New South Wales

U009 Monitoring fluid migration using an in-situ nuclear magnetic resonance core flooding system integrated with fiber optic sensors: A proof of concept U014 Improved fracture segmentation from unwrapped images of drill core using an innovative two-stage segmentation Mask R-CNN U042 Dissolution behavior in carbonate reservoirs during WAG injection: An experimental study

Wednesday, Sep 15: Conference Room A

03:00 AM - 04:30 AM

Session 06 – Europe/Africa/Middle East - Improved SCAL Techniques and Interpretation

Conference Room A

Iván D. Perez Torrijos
University of Stavanger

Quentin Danielczick
TOTAL S.A.

Raheleh Farokhpoor
Lundin-Energy Norway

U050 Core cleaning and wettability restoration " selecting appropriate method T003 Replicating Initial Wettability in Carbonates by Advanced Core Analyses: A Step Closer to Representative Reservoir Wettability T030 Wireless acquisition for Resistivity Index in centrifuge: a new method to estimate Archie's Law parameters

Wednesday, Sep 15: Conference Room A

08:00 AM - 09:30 AM

Session 07 – Europe/Africa/Middle East - Improved SCAL Techniques and Interpretation

Conference Room A

Fabrice Pairoys
TOTAL S.A

Matthieu Mascle
IFPEN

Steffen Berg
Researcher, Shell Global Solutions International BV

T074 Comparing Steady-State and Semi-Dynamic Methods for Relative Permeability Determination: New Insights U030 Physical origin of pressure- and saturation fluctuations in steady-state core floods T006 In-situ investigation of salt precipitation dynamic induced by gas flow-through drying using simultaneous Neutron and X-ray dual-beam Radiography

Wednesday, Sep 15: Conference Room A

Session 08 – Poster presentations

Conference Room A

Thursday, Sep 16: Conference Room A

03:00 AM - 04:30 AM

Session 09 – Europe/Africa/Middle East - Laboratory Core Analysis

+Displacement Mechanisms/EOR/IOR

Conference Room A

Holger Ott
Montanuniversität Leoben

Sandra Profice
TOTAL S.A.

Subhash Ayirala
Saudi Aramco

U002 Material balance and mixing behavior during emulsification of crude oil by using micro-X-ray tomography U021 SmartWater Synergy with Surfactant and Polymer: A Microscale Investigation at Crude Oil-Water Interface T016 The KPC-Log: A new method for measuring the permeability of a non-cylindrical tight sample

Thursday, Sep 16: Conference Room A

08:00 AM - 09:30 AM

Session 10 – Europe/Africa/Middle East - Core analysis

Conference Room A

Bergit Brattekaas
University of Bergen

Giorgio Volonte
ENI Spa

Sandra Profice
TOTAL S.A.

T040 The KC-Log: An improved GRI method for more reliable measurements on low permeable samples T095 Of rats and rocks: using pre-clinical PET imaging facilities in core analysis T083 Integrated workflow for rotary sidewall core orientation: best practices and examples from planning to execution

Thursday, Sep 16: Conference Room A

11:00 AM - 12:30 PM

Session 11 – Americas - Unconventionals + CO2

Conference Room A

Bo Gong

Petrophysicist, Chevron

Eva G. Vinegar

The University of Texas at Austin

Mohamed M. Awad

University of Houston

T096 Rock Image Enhancement Using Super-Resolution Neural Networks
T029 Evolution of NMR and Electrical Resistivity During Early Maturation of an Organic-Rich Chalk
T106 Study of Bakken and Three Forks Formations using NMR Core Analysis