

**23rd International Symposium
of the
Society of Core Analysts
Noordwijk aan Zee, Netherlands
“IMPROVED CORE ANALYSIS FOR
UNCONVENTIONAL FIELDS”**

Monday 28th September

0800 – 0815 Symposium Opening Comments

0815 – 0945 Session 1 – Case Studies

Session Chair: Jos Maas

Co-chair: Norman Morrow

SCA2009-01 **Field and Laboratory Observations of Remaining Oil Saturations in a
Light Oil Reservoir Flooded by a Low Salinity Aquifer**

SCA2009-02 **A Modified Hysteresis Relative Permeability Including a Gas
Remobilization Threshold for Better Production Forecasts of Gas
Storages**

SCA2009-03 **Pore Pressure Effects and Permeability: Effective Stress Issues for High
Pressure Reservoirs**

0945 – 1000 Coffee Break

1000 – 1200 Session 2 – IOR/EOR – PART I

Session Chair: Ole Torsæter

Co-chair: Patrick Eggerman

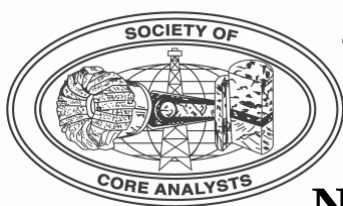
SCA2009-04 **Core Holder Technology for Steam – Heavy Oil Gravity Drainage Studies**

SCA2009-05 **Low Salinity Oil Recovery on Clayey Sandstone: Experimental Study**

SCA2009-06 **Surfactant Enhanced Gravity Drainage: Laboratory Experiments and
Numerical Simulation Model**

SCA2009-07 **Experimental Investigation of Bitumen Recovery Potential from
Electrothermal Processes**

1200 – 1300 Lunch



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Monday 28th September (cont)

1300 – 1500 Session 3 – Improved SCAL Techniques and Interpretation – PART I

Session Chair: Doug Ruth
Co-chair: Issa Abu-Sheikah

- SCA2009-08 **The Spinning Porous Plate (SPP) Method: A New Technique for Setting Irreducible Water Saturation on Core Samples**
SCA2009-09 **Determination of Saturation Profiles via Low-Field NMR Imaging**
SCA2009-10 **Improved Methodology for the Characterization of Complex Vuggy Carbonate**
SCA2009-11 **Quantifying the Relative Roles of Illite and Hematite on Permeability in Red and White Sandstones Using Low and High Field Magnetic Susceptibility**

1500 – 1530 Exhibitor Presentations I

1530 – 1545 Coffee Break

1545 – 1745 Poster Session 1

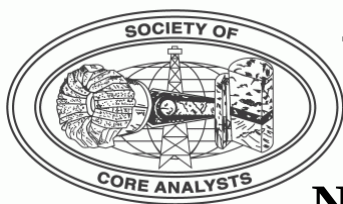
Tuesday 29th September

0800 – 1000 Session 4 – Displacement Mechanisms

Session Chair: Gerald Hamon
Co-chair: Josephine Schembre

- SCA2009-12 **Direct Experimental Evidence of Wettability Modification by Low Salinity**
SCA2009-13 **The Viscous-Capillary Paradox in 2-Phase Flow in Porous Media**
SCA2009-14 **Evaluation of Water Evaporation and Salt Precipitation Due To Flow in Gas Reservoirs**
SCA2009-15 **Condensate Displacement Mechanisms in Low Permeability Rocks**

1000 – 1030 Exhibitor Presentations II



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1030 – 1045

Coffee Break

1045 – 1215

Session Chair:

Co-chair:

Session 5 – Pore Scale Imaging and Modeling –PART I

Olga Vizika-Kavvadias

Ivar Erdal

SCA2009-16 **Visualizing and Quantifying the Residual Phase Distribution in Core Material**

SCA2009-17 **Towards a Better Understanding of Multiphase Flow in Porous Media: 3D In-Situ Fluid Distribution Imaging at the Pore Scale**

SCA2009-18 **Pore Scale Characterization of Carbonates at Multiple Scales: Integration of Micro-CT, BSEM and FIBSEM**

1215 – 1315

Lunch

1315 – 1515

Session 6 – Improved SCAL Techniques and Interpretation – PART II and Reservoir Characterisation

Session Chair:

John Shafer

Co-chair:

Jill Buckley

SCA2009-19 **Phase Identification and Saturation Determination in Carbon Dioxide Flooding of Water Flooded Chalk Using X-Ray Computed Tomography**

SCA2009-20 **Acquisition of Core Capillary Pressure Data by In-Situ Saturation Monitoring – A Comparative Evaluation**

SCA2009-21 **Characterization of Pore to Pore Diffusive Exchange Using NMR T2-Store-T2 2D Experiments**

SCA2009-22 **Micromechanical Investigation of the Hydromechanical Behaviours of Carbonates Contribution of In-Situ Strain Field Measurement by Means of SEM and Optic Digital Image Correlation**

1515 – 1530

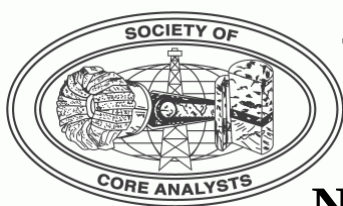
Coffee Break

1530 – 1730

Poster Session 2

1900

Gala Award Dinner



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Wednesday 30th September

0800 – 0930

Session 7 – Wettability and Sequestration

Session Chair:

Xu-Dong Jing

Co-chair:

Marc Fleury

SCA2009-23 **Experimental Investigation of Deposition of Crude Oil Components in Brine-Filled Pores**

SCA2009-24 **Revisiting Two Phase NMR Data with a New Inversion Routine Using a Triangular Pores Model for Wettability Estimation**

SCA2009-25 **Experimental Study on Halite Precipitation During CO₂ Sequestration**

0930 – 1000

Coffee Break

1000 – 1200

Session 8 – IOR/EOR – PART II

Session Chair:

Jon Knut Ringen

Co-chair:

Mike Spearing

SCA2009-26 **Mechanisms of Oil Recovery by Carbonated Water Injection**

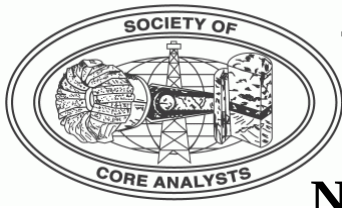
SCA2009-27 **Oil Recovery During CO₂-Foam Injection in Fractured Chalk Rock at Reservoir Conditions**

SCA2009-28 **Use of Enzymes to Improve Waterflood Performance**

SCA2009-29 **Effects of Wettability and Salinity on Microbial Enhanced Oil Recovery with Rhodococcus sp. 094**

1200 – 1300

Business Lunch



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1300 – 1330

Exhibitor Presentations III

1330 – 1500

Poster Session 3

1500 – 1600

Session 9 – Pore Scale Imaging and Modeling – PART II

Session Chair:

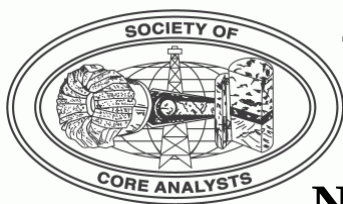
Jules Reed

Co-chair:

Mark Knackstedt

SCA2009-30 **Pore-Scale Modeling of Three-Phase Flow: Comparative Study with
Experimental Reservoir Data**

SCA2009-31 **Computations of Porosity and Permeability of Sparic Carbonate Using
Multi-Scale CT Images**



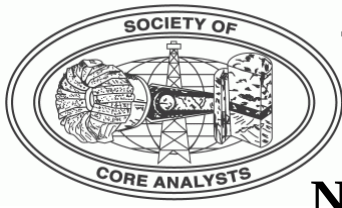
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Alternate Papers/Poster List

- SCA2009-32 **Sensitivity Study of Variables Associated with Magnetic Resonance Imaging Capillary Pressure Measurements in Porous Rocks**
SCA2009-33 **Anomalous Declines in Liquid Permeability**
SCA2009-34 **Diffusive and Convective Drying on a Shaly Sandstone Using NMR Measurements**

Poster List

- SCA2009-35 **Visualisation of Micro Fracture Network in an Oilwet Carbonate**
SCA2009-36 **Monitoring the Surfactant-Enhanced Oil Dissolution and Mobilization in Porous Media**
SCA2009-37 **Improved Measurement Technique for Studying the Effect of Bacterial Solution on IFT and Contact Angles**
SCA2009-38 **Permian Basin: Historical Review of CO₂ EOR Processes, Current Challenges and Improved Optimization Possibilities**
SCA2009-39 **Effects of Salinity on the Morphology of Dissolution Pits in Calcite - Implication for CO₂ Sequestration in Carbonate Rocks**
SCA2009-40 **Characterization of Bitumen Bearing Carbonate Rocks**
SCA2009-41 **A Valid Approach to Correct Capillary Pressure Curves- A Case Study of Berea and Tight Gas Sands**
SCA2009-42 **The Influence of Wettability on Petrophysical Properties**
SCA2009-43 **Is Wettability Alteration of Carbonates by Seawater Caused by Rock Dissolution?**
SCA2009-44 **Comparison of Experimental NMR Measurements with Simulated Responses on Digitized Images of Mono-Mineralic Rocks Using Xray-CT**
SCA2009-45 **The Impact of Thermal and Chemical Effects in Fracture Deformation**
SCA2009-46 **Extracting Pore Throat Size and Relative Permeability from MRI Based Capillary Pressure Curves**



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Thursday 1st October

Field Trip to Batavia Shipyard & Zuiderzee Museum
(all day field trip) includes:

- Visiting the Batavia Shipyard where we'll see a 16-17th century boat that is currently being rebuilt the old-fashioned way.
- From the shipyard participants will take a short boat trip to Zuiderzee Museum, where we'll see the historical Dutch way of fishing, how the fishermen dressed and old boats.
- Lunch is included in this trip.