



# Glaciogenic Reservoirs and Hydrocarbon Systems

1-2 December 2009

## PROGRAMME

<b>Tuesday 1 December</b>	
08:30	<b>Registration and Coffee</b>
09.00	<b>Welcome and Opening</b>
	<b>Session One: Pre-Cambrian Glaciations and Hydrocarbon Systems</b>
09:10	<b>Keynote: J. Craig (Eni)</b> Precambrian Glaciations and the Earth's Oldest Petroleum System
09:50	<b>A. Frischbutter (Wintershall Holding AG)</b> New Evidence for Marinoan and Hirnantian Glaciation Events and the Significance for Hydrocarbon Potential in the Northern Taoudeni Basin, Mauritania
10:10	<b>H. Jaeger (University of Heidelberg)</b> Hydrocarbon Source Rock Potential of Neoproterozoic Glacial Deposits in Namibia - Preglacial Versus Postglacial Source Rocks
10:30	<b>Coffee and Poster Session</b>
	<b>Session Two: European Pleistocene Glaciations: Onshore</b>
10.50	<b>Keynote: J. Ehlers (Geologisches Landesamt)</b> Buried Channels in the Pleistocene of NW Europe
11:30	<b>G. Boulton (University of Edinburgh)</b> Hydraulic Systems Beneath Modern and Ancient Glaciers
12.00	<b>J. Piotrowski (University of Aarhus)</b> Interactions Between Groundwater Flow, Ice Sheet Dynamics and Landforming Processes Beneath the Odra Ice Lobe, Central European Lowland
12:20	<b>S. Pedersen (Geological Survey of Denmark and Greenland)</b> Glaciodynamic Sequence Stratigraphy - Exemplified by Pleistocene Settings in Denmark
12.40	<b>J. Winsemann (Leibniz Universität)</b> Sedimentary Facies and Depositional Architecture of a Middle Pleistocene Subaqueous Ice-Contact Fan, Glacial Lake Weser, North-West Germany



13:00	<b>Lunch</b>
	<b>Session Three: North African Ordovician</b>
13.50	<b>Keynote: D. Le Heron (Royal Holloway, University of London)</b> Outcrop Analogues of Glaciogenic Reservoirs From North Africa: New Results From Al Kufrah Basin
14:30	<b>W. Kouwe (Wintershall)</b> Paleozoic glacially influenced deposition and deformation in the Kufra Basin, Southeast Libya - new insights from recent exploration efforts.
14:50	<b>J. Hirst (BP Exploration)</b> Sandstone Body Geometries Within the Ordovician Pro-Glacial Succession of Algeria – Examples of Density Flow Processes and Products in Outcrop and Subsurface
15.10	<b>S. Rouse (Beicip-Franlab)</b> Sedimentology and Stratigraphic Architecture of Late Ordovician Syn-Glacial Strata from the Tiguentourine Field (Illizi Basin, Algeria)
15:30	<b>Coffee and Poster Session</b>
	<b>Session Four: Modern Analogues for Ancient Glaciations</b>
16.00	<b>A. Russell (Newcastle University)</b> Controls on the Sedimentary Architecture and Heterogeneity of a Large-Scale Glacial Outwash System: Skeiðarársandur, Iceland
16:20	<b>Keynote: A. Moscariello (SGS)</b> The Glaciogenic Reservoir Analogue Studies Project: The Pleistocene Record of NW Europe as an Analogue for the Ordovician System of North Africa
17.00	<b>Poster Presentations</b>
17.30	<b>Posters and Wine Reception</b>
20.30	<b>End of Day One</b>



## Wednesday 2 December

08:30	<b>Registration and coffee</b>
	<b>Session Five: Arabian Palaeozoic</b>
09:00	<b>Keynote: J. Melvin (Saudi Aramco)</b> Heterogeneity in Glaciogenic Reservoirs: Examples from the Ordovician and Permo-Carboniferous of Saudi Arabia
09:40	<b>C. Harvey (South Rub Al-Khali Company Limited)</b> Ordovician Glaciation in the Rub 'al Khali, Saudi Arabia: Geology, Geophysics and Exploration Potential
10:00	<b>A. Howie (University of Durham)</b> Linking Ordovician – Silurian “Hot” Black Shale Deposition in North Africa and Arabia to Deglaciation.
10.20	<b>A. Moscariello (SGS)</b> The Late Ordovician Glaciation Record of SW Saudi Arabia: Sedimentology and Stratigraphy of the Sanamah Member (Wajid Sandstone Formation).
10:40	<b>Coffee and Posters</b>
	<b>Session Six: Pleistocene Tunnel Valleys</b>
11:10	<b>F. Jørgensen (GEUS) &amp; P. Sandersen (Grontmij)</b> 3D Electromagnetic Groundwater Mapping – New Contributions to the Glacial Geology in Denmark
11:30	<b>T. Andersen (University of Aarhus)</b> Seismic Characterization of Tunnel Valleys
11.50	<b>T. Kristensen (Ramboll Danmark A S) &amp; M. Huuse (University of Manchester)</b> Complex Erosion and Infill of Buried Pleistocene Tunnel Valleys and Associated Seismic Velocity Effects
12:10	<b>M. Stewart (Imperial College London)</b> Buried Quaternary Tunnel Valleys in the Central North Sea.
12.30	<b>J. Moreau (University of Aberdeen)</b> Stratigraphic architecture of the Southern North Sea tunnel valleys
12:50	<b>Lunch</b>
	<b>Session Seven: Pleistocene Shelf Systems</b>



13:40	<b>J. Scourse (Bangor University)</b> Celtic Sea Linear Tidal Sand Ridges, The Irish Sea Ice Stream and the Fleuve Manche: Palaeotidal Modelling of a Glacially-Influenced Transitional Passive Margin Depositional System
14:00	<b>D. Praeg (OGS)</b> A Subglacial Meltwater Drainage Pathway Across the Celtic Sea Continental Shelf? First Results from the IPY GLAMAR Campaign
14:20	<b>M. Munro-Stasiuk (Kent State University)</b> Subsurface configuration of jökulhlaup-induced hydrofractures and water-escape structures derived from Ground Penetrating Radar (GPR), Skeidarársandur, Iceland.
14.40	<b>Coffee and Posters</b>
	<b>Session Eight: Palaeozoic Glaciations and Hydrocarbon Systems</b>
15:00	<b>Keynote: C. Fielding (University of Nebraska-Lincoln)</b> The late Palaeozoic of eastern Australia: a review with emphasis on petroleum system elements
15:20	<b>J. Melvin &amp; M. Miller (Saudi Aramco)</b> Re-Advance, Retreat and Rebound: Stratigraphic Response of the Sarah Formation (Hawban and Baq'a Members) to the Demise of the Late Ordovician (Hirnantian) Glaciation in Central Saudi Arabia
16:00	<b>A. Franco (REMSA)</b> Challenges Exploring for Glaciogenic Ordovician Reservoirs in Murzuq Basin, Libya.
16:20	<b>B. Roome (BP Exploration)</b> An Integrated Exploration story from the Cambro-Ordovician of the Illizi Basin, Algeria
16.40	<b>Conference Close</b>



## Poster Programme

<p><b>T. Andersen (University of Aarhus)</b> Groundwater Flow and Recharge in Complex Tunnel Valley Systems</p>
<p><b>F. Bache (Université Pierre Et Marie Curie)</b> Sedimentary Recording of the Carboniferous Glaciation in the Chaco Foreland Basin, Bolivia.</p>
<p><b>B. Blackstone (University of Nebraska-Lincoln)</b> Glacimarine reservoir potential: new insights into controls on reservoir development and quality in high-latitude settings</p>
<p><b>C. Brandes (Leibniz Universität)</b> Deformation Bands in Unconsolidated Pleistocene Sediments</p>
<p><b>T. Frank (University of Nebraska-Lincoln)</b> Mechanisms and Timing of Diagenesis in Polar Glacimarine Depositional Systems: Insights from Pore Water and Sediment Geochemistry of the AND-2A Drillcore, Victoria Land Basin, Antarctica</p>
<p><b>O. Reynolds (Wintershall Holding AG)</b> Marinoan and Hirnantian Glaciations, Mauritania</p>
<p><b>M. Huuse (University of Manchester)</b> Seismic Images of Glaciogenic Structures and Deposits Offshore NW Europe</p>
<p><b>D. Irving (University of Manchester)</b> 3D Seismic Imaging of Early Pleistocene Ice Stream Scours in the Moray Firth, NW North Sea</p>
<p><b>A. Janszen (Delft University of Technology)</b> Sedimentological Architecture of Tunnel Valley Infill in Hamburg (NW Germany)</p>
<p><b>T. Laier (Geological Survey of Denmark and Greenland)</b> Past Exploitation of Glaciogenic Gas Reservoirs Sourced by Pleistocene Marine Clays in Northern Denmark.</p>
<p><b>J. Lang (Leibniz Universität)</b> Facies Characteristics and Depositional Architecture of Upper Ordovician Glacimarine Fan Systems, Illizi Basin, Algeria</p>
<p><b>Karolina Leszczynska (University of Cambridge)</b> Pleistocene Glaciogenic Deposits of the Danbury-Tiptree Ridge, Essex, England</p>
<p><b>R. Lutz (BGR)</b> Geometry and Morphology of Pleistocene Tunnel Valleys in The German North Sea</p>
<p><b>J. Martin</b> Glacial to Post-Glacial Epicontinental Sedimentary Environments: The Early Permian Grant Group, Canning Basin, Western Australia</p>



<p><b>A. Moscariello (SGS)</b> Sedimentology and Internal Architecture of the Pleistocene Petit-Lac Tunnel Valley (Lake Geneva, Switzerland)</p>
<p><b>J. Piotrowski (University of Aarhus)</b> Erosional Bedforms Produced by Longitudinal Vortices in Subglacial Meltwater Flows: Enigmatic Landforms on the Dobrzyn Moraine Plateau, Poland</p>
<p><b>P. Sandersen (Grontmij)</b> Substratum Control on Tunnel Valley Formation in Denmark</p>
<p><b>M. Stewart (Imperial College, London)</b> Buried Quaternary Tunnel Valleys in the Central North Sea</p>
<p><b>P. van der Vegt (University of Cambridge)</b> Glacial Sedimentary Systems and Tunnel Valleys of East Anglia, England.</p>
<p><b>T. Vilhemsen (University of Aarhus)</b> On The Importance of Using Local Grid Refinement in a Regional Scale Groundwater Model Covering a Complex Buried Valley Aquifer System</p>
<p><b>J. Winsemann (Leibniz Universität)</b> High-Resolution Facies Architecture of a Proglacial Delta: An Integration of Outcrop Data and Shear Wave Seismics</p>