

# Petroleum Systems Conference 2023

Tuesday 23. May

<b>HOUR:</b>	<b>DESCRIPTION:</b>
08:30	<b>Registration</b>
09:00	<b>Welcome and introduction</b> Michael Lawson - Aker BP and Chair of Program Committee
	<b>Regional Petroleum Systems Analysis</b> Chairs: Jorge Sanchez-Borque and Tesfa Abay
09:05	<b>KEYNOTE: Understanding charge &amp; HC migration failures in Norwegian North Sea</b> Balazs Badics - Senior geologist, Wintershall Dea Norway
09:40	<b>A comparison of the petroleum geology and rift structures of the Viking Graben (North Sea) and the pre-contractinal Eastern Cordillera of Colombia.</b> Vinicius Riguete- IFP School  Authors: Andrés Mora - Ecopetrol Mauricio Parra - Institute of Geosciences, University of Sao Paulo Gianreto Manatschal - University of Strasbourg
10:05	<b>Integrated source rock identification, characterization and extrapolation</b> Michael Lawson - Aker BP  Authors: Mårten Blixt, Neal Morgan, Kjetil Westing, Christian Lehre, Benedikt Lerch and Paul Milner - Aker BP
10:30	<b>Refreshments and Networking</b>
10:50	<b>Migration marker compounds: Are we heading in the right direction?</b> Laura Milne - Integrated Geochemical Interpretation Ltd. in co-operation with AkerBP and Harbour Energy

<b>HOUR:</b>	<b>DESCRIPTION:</b>
11:15	<p><b>Predicting fluid migration pathways and dynamic flow localization in the subsurface</b> Lawrence Hongliang Wang - Institute for Energy Technology</p> <p>Authors: Viktoriya Yarushina - Institute for Energy Technology, Kjeller, Norway Reinier van Noort - Institute for Energy Technology, Kjeller, Norway</p>
11:40	<p><b>Some myths of petroleum generation, expulsion, migration and trap filling</b> John G. Stainforth - Independent geological/geochemical consultant</p>
12:05	<p><b>Lunch</b></p>
	<p><b>Alternative Source rocks on the NCS</b> Chairs: Sverre E. Ohm, UIS and Jon Halvard Pedersen - Aker BP</p>
13:00	<p><b>KEYNOTE: Gas on the NCS - In an Europe - Starved of Energy</b> Dag Arild Karlsen, Tesfamariam Berhane Abay - University of Oslo</p>
13:35	<p><b>Jurassic World - Camp Cretaceous: The evolution in the hunt for the hidden source</b> Benedikt Lerch - Aker BP</p>
14:00	<p><b>Zechstein-like Petroleum Systems: A Preliminary Evaluation</b> Andres Cedeño - University of Stavanger</p> <p>Authors: Alejandro Escalona - University of Stavanger Andrew Pepper - This !s Petroleum Systems LLC Sverre Ohm - University of Stavanger Dora Marín - Vår Energi</p>
14:25	<p><b>Refreshments and Networking</b></p>
14:45	<p><b>The 7130/4-1 Ørnen gas discovery on the Finnmark Platform: old gas - new play?</b> Jon Halvard Pedersen - Aker BP &amp; Carl Erik Dons - Aker BP, retired</p>

<b>HOUR:</b>	<b>DESCRIPTION:</b>
15:10	<p><b>Palaeozoic Petroleum System Wanted: Rather Alive than Dead</b> Guro Skarstein- University of Stavanger</p> <p>Authors: Sverre E. Ohm og Alejandro Escalona - University of Stavanger</p>
15:35	<p><b>Organic Geochemical Study of Bituminous Sedimentary Rocks in Ny Friesland, Spitsbergen: Insights into Potential Lower Paleozoic Source Rocks</b> Tesfamariam Berhane Abay - Department of Geosciences, University of Oslo</p> <p>Authors: Dag Arild Karlsen - Department of Geosciences, University of Oslo Nils-Martin Hanken - Department of Geosciences, University of Oslo Jon Halvard Pedersen - Lundin Norway As (Now Aker BP ASA) Snorre Olausen - University Centre in Svalbard</p>
16:00	<b>End of day one</b>
18:30	<b>Aperitif</b>
19:00	<b>Conference Dinner</b>

Wednesday 24. May

<b>HOUR:</b>	<b>DESCRIPTION:</b>
09:00	<p><b>Welcome and introduction, day 2</b> Michael Lawson - Aker BP and Chair of Program Committee</p>
	<p><b>Novel techniques applied to Petroleum Systems Analysis</b> Chairs: Michael Lawson and Jorge Sanchez-Borque</p>
09:00	<p><b>KEYNOTE: Molecular isotopic structure as a window on the origins and fates of natural hydrocarbons</b> Prof. John M. Eiler - Division of Geological and Planetary Sciences. California Institute of Technology</p>

<b>HOUR:</b>	<b>DESCRIPTION:</b>
09:35	<p><b>Time constraints on hydrocarbon migration and caprock formation recorded by calcite spar in a Carboniferous-Permian carbonate-evaporite succession, Finnmark Platform, Barents Sea</b>  Aivo Lepland - Marine Geologist - Geological Survey of Norway</p> <p>Authors:  Malcolm S.W. Hodgskiss - Geological Survey of Norway  Nivedita Thiagarajan - California Institute of Technology  Niels Rameil - AkerBP  Harald Brunstad - AkerBP  Erik Hammer - AkerBP  Jon Halvard Pedersen - AkerBP  Kalle Kirsimae - University of Tartu  Atle Mørk</p>
10:00	<p><b>Fluid Chemistry Workflows for Production Allocation: An example from a North Sea Oilfield</b>  Craig D. Barrie - Chief Operating Officer, Applied Petroleum Technology</p>
10:25	<p><b>Sources of mercury in petroleum</b>  Sverre E. Ohm - University of Stavanger / Consultant, OPGIS</p>
10:50	<p><b>Refreshments and Networking</b></p>
	<p><b>Natural gases - Subsurface to seeps</b>  Chairs: Olaf Thiessen and Christoph Kierdorf</p>
11:05	<p><b>KEYNOTE: Greenhouse gas emissions from marine decommissioned hydrocarbon wells: leakage detection, monitoring and mitigation strategies</b>  Dr. Christoph Böttner - Aarhus University</p>
11:40	<p><b>A new young source rock offshore western Svalbard proven with oil seep geochemical results - Possible regional implication for the westernmost Barents Sea</b>  Rune Mattingsdal - Norwegian Petroleum Directorate</p>
12:05	<p><b>Lunch</b></p>
13:00	<p><b>Seep and Overburden Gas - NO 7125/1-1 Binne vs Barents Sea et al</b>  Olaf Thiessen - Equinor</p>

HOUR:	DESCRIPTION:
13:25	<p><b>Well site gas for reservoir evaluation</b> Julian Moore - Applied Petroleum Technology (APT)</p> <p>Authors: Tim Dodd and Lloyd Jones - Applied Petroleum Technology (APT)</p>
13:50	<p><b>A Simple Approach Using Standard Mud Gas Data to Distinguish Oil and Gas Zones in Depleted Reservoirs</b> Dr. Tao Yang - Senior Specialist Reservoir Technology Technology, Digital and Innovation, Equinor</p> <p>Authors: Alexandra Cely, Nan Cheng, Sandrine Donnadiou, and Marianne Iversen - Equinor</p>
14:15	<p><b>Hydrocarbon evaluation in real-time using Advanced Mudgas Logging: fast-tracking exploration work and assist in safer and optimised operations</b> Daniel Finken, Senior Geologist Exploration - Equinor</p> <p>Authors: Mette Lundberg og Martin Niemann - Equinor</p>
14:40	<p><b>Refreshments and Networking</b></p>
	<p><b>Environment and Energy Transition</b> Chair: Balazs Badics</p>
14:55	<p><b>KEYNOTE: Deep sea mineral deposits on the NCS - learnings and challenges</b> Stig-Morten Knutsen - Chief Geologist, Norwegian Petroleum Directorate (NPD)</p>
15:30	<p><b>Distribution of Upper Jurassic-Upper Cretaceous seals in the northern Horda Platform: considerations for CO2 storage within the Smeaheia area (EL002)</b> Johnathon L. Osmond - Doctoral Research Fellow, University of Oslo</p>

<b>HOUR:</b>	<b>DESCRIPTION:</b>
15:55	<p><b>Measurements of capillary breakthrough pressures and permeabilities in traditional seals and application for CO2 storage</b> Magnus Soldal- Avdelingsleder Bergmekanisk og geofysisk testing, NGI and University of Oslo Elin Skurtveit - Associate Professor II - Study of sedimentary basins, NGI and University of Oslo</p> <p>Authors: Luke Griffiths - NGI Halvard Smith - NGI Lars Grande - NGI</p>
16:20	<p><b>Voting for best talk of the conference &amp; announcement of winner</b></p>
16:30	<p><b>Closing remarks and awards</b> Michael Lawson - Aker BP and Chair of Program Committee</p>