

Petroleum Systems Conference 2023

Tuesday 23. May

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

| HOUR: | DESCRIPTION: |
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| 11:15 | <p>Predicting fluid migration pathways and dynamic flow localization in the subsurface 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>Some myths of petroleum generation, expulsion, migration and trap filling John G. Stainforth - Independent geological/geochemical consultant</p> |
| 12:05 | <p>Lunch</p> |
| | <p>Alternative Source rocks on the NCS Chairs: Sverre E. Ohm, UIS and Jon Halvard Pedersen - Aker BP</p> |
| 13:00 | <p>KEYNOTE: Gas on the NCS - In an Europe - Starved of Energy Dag Arild Karlsen, Tesfamariam Berhane Abay - University of Oslo</p> |
| 13:35 | <p>Jurassic World - Camp Cretaceous: The evolution in the hunt for the hidden source Benedikt Lerch - Aker BP</p> |
| 14:00 | <p>Zechstein-like Petroleum Systems: A Preliminary Evaluation 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>Refreshments and Networking</p> |
| 14:45 | <p>The 7130/4-1 Ørnen gas discovery on the Finnmark Platform: old gas - new play? Jon Halvard Pedersen - Aker BP & Carl Erik Dons - Aker BP, retired</p> |

| HOUR: | DESCRIPTION: |
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| 15:10 | <p>Palaeozoic Petroleum System Wanted: Rather Alive than Dead Guro Skarstein- University of Stavanger</p> <p>Authors: Sverre E. Ohm og Alejandro Escalona - University of Stavanger</p> |
| 15:35 | <p>Organic Geochemical Study of Bituminous Sedimentary Rocks in Ny Friesland, Spitsbergen: Insights into Potential Lower Paleozoic Source Rocks 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 | End of day one |
| 18:30 | Aperitif |
| 19:00 | Conference Dinner |

Wednesday 24. May

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

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

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

| HOUR: | DESCRIPTION: |
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| 15:55 | <p>Measurements of capillary breakthrough pressures and permeabilities in traditional seals and application for CO2 storage 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>Voting for best talk of the conference & announcement of winner</p> |
| 16:30 | <p>Closing remarks and awards Michael Lawson - Aker BP and Chair of Program Committee</p> |