

# The Biennial Geophysical Seminar 2022

Wednesday 18. May

<b>HOUR:</b>	<b>DESCRIPTION:</b>
11:30	<b>Registration and lunch</b>
12:00	<b>Welcome and introduction</b> Vetle Vinje, CGG
	<b>Field Monitoring, Multi-Azimuth</b> Chairs: Leila Bencherif-Sørensen, ConocoPhillips & Grunde Rønholt, PGS
12:15	<b>Capturing the value of seabed seismic, challenges in processing and interpretation</b> Ross Milne, Lead Geophysicist, Aker BP
12:40	<b>Johan Sverdrup Permanent Reservoir Monitoring: data processing and first 4D observations</b> Emin Sadikhov, Equinor
12:55	<b>Permanent Reservoir Monitoring at Johan Sverdrup: 4D PP processing</b> Jack Kosky, CGG
13:10	<b>Results of the first dual azimuth 4D seismic survey in Goliat field</b> Isaias Castillo, Vår Energi
13:28	<b>Coffee Break</b>
13:58	<b>Addressing the imaging challenges of salt basins in the Barents Sea - combining streamers and nodes</b> Jan Erik Lie, Lundin Energy
14:16	<b>Imaging ultra-high density streamer data with FWI velocities. Quad 35 Hybrid MC3D - the world's first hybrid streamer and OBN survey acquired simultaneously</b> Jeroen Hoogeveen Geoex MCG
14:34	<b>Full Waveform Imaging and Hybrid Imaging of OBN and streamer of Quad 35 data offshore Norway</b> Chris Walker, BGP Offshore

<b>HOUR:</b>	<b>DESCRIPTION:</b>
14:52	<b>Enhancing reservoir and shallow target imaging with dual azimuth acquisition and FWI imaging: a case study from the Northern Viking Graben</b> Thomas Latter, CGG
15:10	<b>Coffee Break</b>
	Chairs: Geraldine Dominique Vey, Aker BP & Lars Gunder Klefstad, Norwegian Petroleum Directorate
15:30	<b>Reservoir properties estimation using an efficient MAZ towed multisensor streamer seismic</b> Julien Oukili, PGS
15:48	<b>New technologies for deep-water sparse OBN imaging   Case study from the West of Shetland</b> Hazem Ahmed, Schlumberger
16:04	<b>Snøhvit OBN re-processing for uncertainty reduction</b> Kristoffer Sundøy, Equinor
16:22	<b>Towards clearer structural images inside SOAs at Eldfisk, the North Sea</b> Zhengxue Li, ConocoPhillips
16:40	<b>End of conference day 1</b>
19:00	<b>Get-Together with tapas and drinks</b> Skybar - Caledonien Hotel, Kristiansand

Thursday 19. May

<b>HOUR:</b>	<b>DESCRIPTION:</b>
09:00	<b>Welcome day 2</b>
	<b>Acquisition and Imaging</b> Chairs: Geir Apeland, WesternGeco & Odd Petter Skogly, Norske Shell
09:00	<b>Geophysical technology evolutions: a personal journey</b> Robert Soubaras, Chief Geophysical Scientist, Lundin Energy

<b>HOUR:</b>	<b>DESCRIPTION:</b>
09:25	<b>Next Generation Marine Acquisition Equipment</b> Thomas Elboth, Shearwater
09:43	<b>3D TTI Gauss-Newton inversion, data step-change in imaging of CSEM data</b> Dag Helleland Hansen, EMGS
10:01	<b>Integration of diffraction imaging to support interpretation of sand injectites in Norwegian North Sea</b> Ørjan Pedersen, Aker BP
10:19	<b>Coffee Break</b>
10:49	<b>Overcoming the challenges of model building with NAZ data using Time-Lag FWI over the Haugaland High</b> Andrew Wright, CGG
11:07	<b>Estimating the Full Bandwidth Earth Model with Simultaneous Inversion for Velocity and Reflectivity</b> Øystein Korsmo, PGS
11:25	<b>Towards elastic full waveform inversion: Challenges, solutions and examples</b> Ole Edvard Aaker, Aker BP
11:43	<b>Lunch</b>
	<b>Machine Learning / Reservoir</b> Chairs: Ben King, Equinor & Mark Andrew Ackers, Spirit Energy
12:45	<b>Machine Learning in interpretation - bridging the gap between geophysics and the interpreters</b> Aina Juell Bugge, AI enthusiast and geophysicist, Lundin Energy
13:10	<b>Seismic reservoir prediction using the “Probe” technology and rock physics feasibility modelling</b> Cathrine Holmsen, Petoro & Per Avseth, Dig Science
13:28	<b>De-migration-based supervised learning for interpolation and regularization of 3D offset classes with examples from the Barents Sea and the North Sea</b> Vetle Vinje, CGG

<b>HOUR:</b>	<b>DESCRIPTION:</b>
13:46	<b>Learnings from exploring the South Viking Graben using dense OBN, AI and machine learning</b> Sindre Jansen, TGS
14:04	<b>Understanding Self-Organizing Maps for Seismic attribute data classification</b> Omar Rivera Herrera, Equinor
14:22	<b>Coffee Break</b>
14:52	<b>Use of AI for Fault Identification in the E &amp; P Life Cycle</b> Sander Hofker Berg, Spirit-Energy
15:10	<b>Applied Machine Learning: Fault Identification and Mapping for Improved Fault Risking in the Ekofisk Reservoir</b> Knut R. Viten, ConocoPhillips Norway
15:28	<b>Using Sim2seis modelling and stochastic inversion for reservoir model building - a case study from the Gråsel Field</b> Hamed Amini, Aker BP
15:46	<b>The Tordis Statfjord oil discovery: Using far-offset seismic amplitudes for near-field exploration</b> Haitham Alassi, Equinor
16:05	<b>End of conference day 2</b>
18:00	<b>APERITIF AND CONFERENCE DINNER</b>

Friday 20. May

<b>HOUR:</b>	<b>DESCRIPTION:</b>
08:55	<b>Welcome day 3</b>
	<b>Energy Transition /CCS /Mining</b> Chairs: Espen Harris Nilsen, Lundin Energy & Adriana Citlali Ramirez, TGS
09:00	<b>The role of geophysics in the CCS world: the Northern Lights example</b> Catalina Acuna, Exploration Geophysicist, Norske Shell

<b>HOUR:</b>	<b>DESCRIPTION:</b>
09:25	<b>Designing a monitoring strategy for CCS projects</b> Michael Branston, Schlumberger
09:43	<b>Sleipner CO2 Time-Lapse Monitoring - Broadband Processing Impact on 4D Resolution</b> Marta Wierzchowska, PGS
10:01	<b>Coffee Break</b>
10:30	<b>Results from using water column data acquired by multibeam echosounder and SAR-satellite images in the Barents Sea</b> Rune Matningsdal, NPD
10:48	<b>Marine Minerals Exploration: Thinking Outside the Oil-and-Gas Box</b> Anna Lim, Argeo
11:06	<b>The importance of high-resolution 3D seismic data for deep sea drilling: Results from IODP Exp. 396, Norwegian Sea</b> Sverre Planke, University of Oslo
11:24	<b>Next generation geophysical applications</b> Martin Landrø, professor in applied geophysics, NTNU and Director, Centre for Geophysical Forecasting
11:50	<b>Closing remarks and result from best paper</b> Vetle Vinje, CGG
12:00	<b>Lunch</b>
	<b>Have a safe trip home</b>