

# The Biennial Geophysical Seminar 2020

Monday 09. March

<b>HOUR:</b>	<b>DESCRIPTION:</b>
18:00	<b>Registration</b>
18:30	<b>Get-Together with tapas and drinks</b>

Tuesday 10. March

<b>HOUR:</b>	<b>DESCRIPTION:</b>
08:30	<b>Registration and coffee</b>
08:50	<b>Welcoming address</b> Vetle Vinje, Chair of the Program Committee
	<b>Broadband acquisition and processing</b> Chair: Ruth Synnøve Haga Pettersen, AkerBP and Anniken Teigen, Petoro
09:00	<b>Keynote: Looking forward, looking back: Seismic technology in Norwegian waters</b> Adriana Citlali Ramirez, TGS
09:30	<b>The next generation source-over-cable acquisition in the Barents Sea</b> Vetle Vinje, CGG <i>Authors: V. Vinje, T. Elboth, E. Kaszycka, G. Poole, N. Salaun, CGG</i>
10:00	<b>Shallow hazard determination using exploration 3D seismic data</b> Patrick Smith, Schlumberger <i>Authors: P. Smith<sub>1</sub>, R. Milne<sub>2</sub>, G. Vey<sub>2</sub>, S. Way<sub>1</sub>, D. Brager<sub>1</sub>, M. Yanez<sub>1</sub>, G. Apeland<sub>1</sub></i> <i>Author's Affiliation: WesternGeco<sub>1</sub>, AkerBP<sub>2</sub></i>
10:30	<b>Coffee Break</b>
11:00	<b>Least-squares migration - the new standard for high-end imaging</b> Øystein Korsmo, PGS <i>Authors: Ø. Korsmo*, S. Arasanipalai J.Oukili, G.Rønholt, C. Hintz, PGS</i>
11:30	<b>Interbed multiples in the Norwegian Continental Shelf - modelling and attenuation through a variety of methods</b> Geir Apeland, WesternGeco
12:00	<b>Increasing Utsira basin resolution using Hexa and Ennea sources, a case study</b> Guillaume Henin, CGG <i>Authors: Guillaume Henin<sub>1</sub>, Nicolas Salaun<sub>1</sub>, Andrew Wright<sub>1</sub>, Stephane Pellerin<sub>1</sub>, CGG</i>
12:30	<b>Lunch</b>
	<b>Exploration and Production case studies</b> Chair: Terje Dahl, Equinor ASA and Espen Harris Nilsen, Lundin
13:30	<b>Keynote: Exploration and Production</b> Marit Stustad Guttormsen, Equinor

<b>HOUR:</b>	<b>DESCRIPTION:</b>
14:00	<p><b>Integrated study to discover and characterize a shallow gas anomaly at Valhall</b>  Fredrik Jakobsen, Aker BP  <i>Authors: Einar Jarle Kjos, Fredrik Grastveit Jakobsen, John Ryan Paton, Ross Milne, Aker BP</i></p>
14:30	<p><b>Use of seismic amplitudes targeting undrained Lower Rannoch Fm. oilfilled sands, Vigdis field.</b>  Per Inge Espedal, Equinor</p>
15:00	<p><b>Coffee Break</b></p>
15:30	<p><b>Eldfisk OBN - A novel, cost efficient way of acquiring 4D seismic data with Ocean Bottom Nodes</b>  Benedicte Myhre, ConocoPhillips  <i>Authors: Benedicte Myhre, Per Gunnar Folstad, Leila Bencherif-Sørensen, Ruben Thomassen, Victoria Flatås, ConocoPhillips</i></p>
15:50	<p><b>Improved Structural Imaging Using Joint Velocity and Q FWI on Eldfisk Ocean Bottom Seismic</b>  Kate McCluskey, CGG  <i>Authors: A. Varghese<sub>1</sub>, K. McCluskey<sub>1*</sub>, J. Schultzen<sub>1</sub>, C. Henstock<sub>1</sub>, M. Naerheim<sub>2</sub>, B. Lyngnes<sub>2</sub>, L. Bencherif-Soerensen<sub>2</sub>, V. Flataas<sub>2</sub>.  Author's affiliation: CGG<sub>1</sub>, ConocoPhillips<sub>2</sub></i></p>
16:15	<p><b>Improved reservoir monitoring with PP &amp; PS time-lapse imaging utilising up/down deconvolution: An OBC case study from the Edvard Grieg field</b>  Francesca Twynam, WesternGeco  <i>Authors: F. Twynam<sub>1</sub>, R. Ford<sub>1</sub>, P. Caprioli<sub>1</sub>, M. Hooke<sub>1</sub>, R. Whitebread<sub>1</sub>, P.E. Dhelie<sub>2</sub>, V. Danielsen<sub>2</sub>, K.R. Straith<sub>2</sub>  Author's affiliation: WesternGeco<sub>1</sub>, Lundin Norway<sub>2</sub></i></p>
16:45	<p><b>Gudrun 4D - a time lapse case study using an evolutionary processing approach</b>  Kristoffer Sundøy, Equinor  <i>Authors: Per Inge Flo (CGG), Cris Henstock (CGG), Erik Hicks (CGG), Kyrre Simonsen (Equinor), Muhammad Faheem Abbasi (Equinor) and Kristoffer Sundøy (Equinor)</i></p>
17:15	<p><b>End of Conference day 1</b></p>
18:00	<p><b>Aperitif &amp; Conference Dinner</b></p>

Wednesday 11. March

<b>HOUR:</b>	<b>DESCRIPTION:</b>
	<p><b>Emerging technologies &amp; Machine Learning</b> Chair: Atle Aamodt, PGS and Leila Bencherif-Sørensen, ConocoPhillips</p>
08:30	<p><b>Keynote: Emerging technologies &amp; Machine Learning</b> Tony Martin, PGS</p>
09:00	<p><b>Generative neural networks for seismic processing</b> Aina Juell Bugge, Lundin <i>Authors: A. J. Bugge, J. E. Lie, E. H. Nilsen, Lundin Norway AS</i></p>
09:30	<p><b>From plugs to plays - Integrated property prediction across scales with machine learning and deep neural networks in the Norwegian North Sea</b> Arne Klepp Kvalheim, Earth Science Analytics <i>Authors: Arne Klepp Kvalheim, Steve Purves, Behzad Alaei, Dimitrios Oikonomou, Eirik Larsen, Earth Science Analytics AS</i></p>
10:00	<p><b>Coffee Break</b></p>
10:30	<p><b>SOM - an additional tool in reservoir characterization, an example from Barents Sea</b> Malgven Roudot, Equinor <i>Authors: M. Roudot, T. N. Helgheim, E. K. Dahl, M. J. Grepstad, E. T. Delaney, Equinor</i></p>
11:00	<p><b>Utsira: Processing and imaging a large-scale, high-density OBN survey</b> Tom Rayment, DownUnder GeoSolutions <i>Authors: Rayment, T. Letki, L, DownUnder Geosolutions</i></p>
11:30	<p><b>Reducing sound levels emitted from marine seismic sources</b> Stian Hegna, PGS</p>
12:00	<p><b>Broadband multi-source acquisition based on the principles of signal apparition</b> Per Riste, Equinor <i>Authors: P. Riste*, L. Amundsen*, F. Andersson†, M. Cogan*, Å. S. Pedersen*, J. Robertsson†. Author's affiliation: *Equinor ASA, †Seismic Apparition GmbH</i></p>
12:30	<p><b>Lunch</b></p>
	<p><b>Field Monitoring, Multi-Azimuth</b> Chairs: Odd Petter Skogly, Shell and Mark Andrew Ackers, Spirit Energy</p>

<b>HOUR:</b>	<b>DESCRIPTION:</b>
13:30	<p><b>Cost-effective reservoir monitoring using seafloor measurements of gravity changes and subsidence</b>  Hugo Ruiz, Octio  <i>Authors: Hugo Ruiz, PhD, Martha Lien, PhD, Octio AS</i></p>
14:00	<p><b>Grane PRM: Handling sparse acquisition challenges in processing</b>  Madjid Berraki, Equinor  <i>Authors: M. Berraki, N. Moyle, R. M. Elde, Equinor</i></p>
14:30	<p><b>Coffee Break</b></p>
15:00	<p><b>Increasing resolution at Brent Level, a multi-azimuth Martin Linge case study</b>  Nicolas Salaun, CGG  <i>Authors: Nicolas Salaun, Andrea Roubaud, Guillaume Gigou, Jean-Baptiste Mitschler, Alessandro Pintus, Daniel Fischer, Inger Ruth Wikander, CGG</i></p>
15:30	<p><b>Keynote: What is the future of the geo-community in Norway?</b>  Egil Tjøland, NTNU</p>
16:00	<p><b>Closing remarks and result from best paper</b></p>
16:15	<p><b>End of Conference</b></p>