

Organiser



# Seismic2020

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W/C 14TH SEPTEMBER

## THE ROLE OF SEISMIC IN UNLOCKING VALUE IN THE ENERGY MIX

TECHNICAL PROGRAMME



### TECHNICAL PROGRAMME

We are delighted to bring to you a week-long programme of FREE digital events covering the role of Seismic in the Energy Mix.

Seismic 2020 will cover the entire spectrum of seismic technology from exploration through development and production to re-purpose or abandonment – the full lifecycle of the asset. As well as focusing on the ‘here and now’ and how seismic can sustain the UK’s Maximising Economic Recovery strategy, we will look ahead to the future and how seismic can support the transition to a low-carbon economy.

By highlighting the role Seismic plays in the Energy Mix, this conference is not only relevant to Geoscientists and Geophysicists, but also those in non-Geo-related roles, such as Petroleum Engineers and Senior Decision makers in Operators and Service companies.

### BOOKING INFORMATION

For more information on the events and how to book, visit [spe-aberdeen.org/events](http://spe-aberdeen.org/events) or email [aberdeen.events@spe-uk.org](mailto:aberdeen.events@spe-uk.org)

### SEISMIC 2020 YOUNG PROFESSIONALS EVENT

Tuesday 15 September, 10.00am

The YP event will take the form of two sessions. The first will focus on transferable skills for the Energy Transition with career summaries from two professionals who work in renewables, followed by Q&A. The second will focus on remote operations and un-manned vessels, with two presentations followed by a chance for questions.

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# SEISMIC 2020 TECHNICAL PROGRAMME

MONDAY 14 <sup>TH</sup> SEPTEMBER – ENERGY TRANSITION 14:00 – 16:00		
14:00	Introduction by Conference Chair	Chrysanthe Munn, BP
14:05	Keynote	John Etgen, BP
14:25	Keynote	Nick Richardson, OGA
14:45	Northern Lights CCS project - The role of Geophysics in a Decarbonization & Energy Transition world	Diego Vazquez Anzola, Shell
15:05	Panel Discussion	
15:30	<b>TECHBYTES</b>	
	CCS and Precision Impulse: Monitoring Earth's Carbon Imbalance	William Davie, Precision Impulse
	Re-processing to add value to legacy seismic; A West of Shetlands case study	Tas Weedon, Shearwater
16:00	Close	
TUESDAY 15 <sup>TH</sup> SEPTEMBER– 4D & OBN – 14:00 - 16:15		
14:00	Introduction by Conference Chair	
14:05	Clair Ridge: The Impact of the Densest OBN Survey in the UKCS on Reservoir Development	Lindsey Smith, BP
14:30	Ocean-bottom node processing for 4D imaging at Ivar Aasen field	David Blake, CGG
14:55	DAS VSP Baseline Seismic Campaign at Culzean – Applicability for 3D Imaging and 4D Monitoring in the Central North Sea	Adrian Merry, Total
15:20	<b>Short Coffee Break</b>	
15:25	4D through the lifecycle of a HPHT field; driving well placement at the Shearwater field through evaluation of contact movement and reservoir connectivity	Alison Ang, Shell
15:50	4D Ocean Bottom Node Decimation Study over the North Sea Golden Eagle Field	Zsofia Dobo, CGG
16:15	Close	
WEDNESDAY 16 <sup>TH</sup> SEPTEMBER– IMAGING & CHARACTERISATION – 14:00 – 16:05		
14:00	Introduction by Conference Chair	
14:05	Seismic inversion of dual azimuth broadband seismic data: a recent example from thin-bedded Paleocene-Eocene sediments, West of Shetlands	Heather Poore, Siccar Point
14:30	De-risk West of Shetland (WoS) Area Exploration using Generalized Radon Transform (GRT) Depth Imaging and Unsupervised Machine Learning methods	Can Yang, Seismic Image Processing
14:55	Direct Hydrocarbon Indicators provide the key to success in exploration for stratigraphic traps	Andrew Jackson, Westwood Global
15:20	<b>TECHBYTES</b>	
	A new workflow to improve seismic imaging beneath salt bodies	Alex Cooke, WesternGeco
	Convolutional Neural Networks to improve the speed and accuracy of seismic interpretation	Tim Gibbons, Hoolock Consulting
	Integrated Approach to Forward Modelling	Brian Lynch, Dynamic Graphics
15:40	Wave-equation based AVO inversion for next-generation seismic reservoir characterisation: A case study from the Edvard Grieg field, Norway	Peter Haffinger, Delft Inversion
16:05	Close	
THURSDAY 17 <sup>TH</sup> SEPTEMBER– TECHNOLOGY – 14:00 – 16:05		
14:00	Introduction by Conference Chair	
14:05	The marine seismic vibrator in practice: Techniques for efficiency, improved data quality and field tests	Tim Brice, Shearwater
14:30	Using wide tow Quad point sources for high resolution seismic and accurate AVO measurements in the Barents Sea	Per Eivind Dhelie, Lundin Norway AS
14:55	GeoStreamer X –Redefining high resolution multi-azimuth towed streamer acquisition	Carine Roalkvam, PGS
15:20	<b>TECHBYTES</b>	
	Flying Nodes - Efficient OBN Seismic Survey	Dave Grant, Autonomous Robotics
	Real-Time Acquisition and Processing of DAS VSP Data	Glenn Wilson, Halliburton
	Physics-Based Machine Learning – The Holy Grail for depth imaging?	Nathan Payne, Optic Earth
15:40	Collaborative acquisition planning to unlock the Nordkapp Basin: Designing an appropriate solution for a challenging basin	Mike Branston, WesternGeco
16:05	Close	
FRIDAY 18 <sup>TH</sup> SEPTEMBER– ENERGY TRANSITION – 14:00-16:00		
14:00	Introduction by Conference Chair	
14:05	Net Zero Teesside CCS Project – Seismic use in CCS	Fiona Sutherland, BP
14:30	Gravimetric monitoring for existing and future use of reservoirs	Adrian Topham, Silicon Microgravity
14:55	De-risking shallow geohazards in the offshore wind industry	Richard Davies, Fugro
15:20	Long Range Seismic Acquisition with DAS: Challenges in Production and Subsea Environments	Andres Chavarria, Optasense
15:45	Interactive Session/Summary of the week	
16:00	Close	