

14-15 MAY 2019

ABERDEEN EXHIBITION & CONFERENCE CENTRE

SEISMIC THROUGH THE ASSET LIFECYCLE - SHARING ADVANCES IN GEOPHYSICS

TECHNICAL PROGRAMME



Seismic 2019 will explore the entire spectrum of seismic technology from exploration through development and production to abandonment – the lifecycle of the asset.

The conference will focus on advances in seismic acquisition, processing and quantitative interpretation, how these are being applied and provide value. Other themes include machine learning in seismic interpretation to compliment manual interpretation; seismic aspects of integrated reservoir modelling; borehole seismic and non-seismic technologies.

WHY ATTEND?

- Training and knowledge sharing – hear quality presentations over two days including a number of Operator case histories and short informative ‘Techbyte’ presentations
- Key networking opportunity representing over 200 delegates each day
- Learn from the exhibitors showcasing their latest technologies.

BOOKING INFORMATION

Early bird rates apply until 1 April 2019.

All rates are exclusive of VAT. Rates include car parking fees and catering.

Member rates apply to members of: SPE, EI, AXIS, IMechE, ICoTA, IMC, OGUUK, PESGB, EAGE.

Note the Young Professionals Event is free to attend but will not allow admission to the main conference. This must be booked separately.

Special ‘buy 4 get 1 free rates available’ – visit www.spe-aberdeen.org/events for more information.

*Limited tickets available.

	Early Bird Until 1 April	Delegate Rate After 1 April
Members 1 day	£280	£330
Members 2 days	£360	£410
Non Members 1 day	£330	£380
Non Members 2 days	£455	£510
Students and unemployed 1 day*	£25	£25
Students and unemployed 2 days*	£50	£50
Young Professionals Event	Free to attend	Free to attend



Seismic2019



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Seismic 2019 Technical Programme

DAY 1 - 14 TH MAY		
SESSION 1 - SEISMIC NEW TECHNOLOGY (GORDON SUITE)		
08:30	Opening Remarks	Paul Mitchell, TAQA
08:40	Keynote Presentation - Unlocking New and Emerging Geophysical Technologies	Gillian White, OGTC
09:05	Seismic Data in The Cloud - How can it benefit me?	Chevron, OGTC & Osokey
09:30	Evaluation of apparition de-blending on marine streamer data	Shearwater GeoServices
9.55	TECHBYTE SESSION (GORDON SUITE)	
	Facilitating Machine Learning	Troika International
	Why are we duplicating all our data?	Osokey
10:10	NETWORKING BREAK (CROMBIE SUITE)	
SESSION 2 - MACHINE LEARNING (GORDON SUITE)		
10:40	Deep Learning(s) in Geophysics	CGG
11:05	Reservoir insights enabled by new machine learning technology for seismic interpretation	Emerson
11:30	Automated analysis of seismic data using Artificial Intelligence for 3D visualisation with Virtual Reality	University of Aberdeen
11:55	TECHBYTE SESSION (GORDON SUITE)	
	Reduce risk and cost by using multi-attribute seismic analysis and machine learning	Hoolock Consulting
	Machine Learning Application in Quantitative Interpretation Workflow - North Sea Examples	Seismic Image Processing
	Automated Interpretation: The application of deep learning for more accurate fault delineation	GeoTeric
	Application of Deep Learning along Directional Image Gathers for High Definition Classification of Subsurface Features	Emerson
12.20	LUNCH (CROMBIE SUITE)	
SESSION 3 - 4D (GORDON SUITE)		
13:30	Gannet F: 4D Still Driving Decisions after 20 years	Shell
13:55	4D Assisted Seismic History Matching using a Differential Evolution Algorithm at the Harding South Field	TAQA
14:20	Why acquire time-lapse data with ocean-bottom nodes? Developments in node processing	WesternGeco
14:45	NETWORKING BREAK (CROMBIE SUITE)	
SESSION 4 - QI (GORDON SUITE)		
15:15	Applying Consistent Rock Physics and Seismic Amplitude analysis to enhance the understanding of the seismic amplitude response in North Sea pre-Cretaceous reservoirs	IKON Science
15:40	Enhancing Earth Model Building via Joint Lithology Elastic Inversion	Schlumberger
16:05	The next stage in the evolution of seismic reservoir characterisation: Wave-equation based AVO inversion	Delft Inversion
16:30	Reservoir characterisation in the presence of thin beds and elastically ambiguous facies	Qeye
16:55	CLOSING REMARKS - SPE ABERDEEN	
17:00	NETWORKING RECEPTION (CROMBIE SUITE)	

YOUNG PROFESSIONALS EVENT

This year, we have introduced an event for Young Professionals entitled “Navigating a career in a dynamic geoscience world – how to adapt and build skills for the future”. The event is free of charge and will take place on Day 1 at 15:30 in the Balmoral Suite. All delegates are then invited to attend the main networking reception sponsored by the EAGE. For any queries, email aberdeen.events@spe-uk.org, call the Events Team on 01224 646311 or visit www.spe-aberdeen.org/events

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DAY 2 - 15 TH MAY		
SESSION 5 - PROCESSING (GORDON SUITE)		
08:30	Opening Remarks - Paul Mitchell, TAQA	
08:40	Keynote Presentation - Gareth Williams	
09:05	High Resolution Injectite Imaging: A case study of the Chestnut Field, Central North Sea	CGG
09:30	Processing of high resolution seismic data to Wellsite survey quality to detect shallow hazards	Schlumberger
09:55	TECHBYTE SESSION (GORDON SUITE)	
	Multi-arrival ray and wave equation migration codes for de-risking amplitude and elastic inversion interpretation attributes	Seismic Image Processing
	4D monitoring enhancement with LostCor filtering	Estimages
	Rapid, Repeatable, Automated Velocity Calibrations with CoViz 4D	DGI
10:15	NETWORKING BREAK (CROMBIE SUITE)	
SESSION 6 - NOVEL METHODS (GORDON SUITE)		
10:45	Distributed Sensing in Offshore Fields: Seismic and Flow Monitoring for Reservoir Characterisation	Optasense
11:10	3D case studies for time-domain vertical CSEM	PetroMarker AS
11:35	Increasing Confidence in Fracture Detection Using High Resolution Diffraction Imaging	PetroTrace
12:00	TECHBYTE SESSION (GORDON SUITE)	
	Conveyance-Agnostic Distributed Acoustic Sensing VSP Data Acquisition and Processing	Glenn Wilson, Halliburton
	Serverless computing with seismic	James Selvage, Osokey
12:15	LUNCH (CROMBIE SUITE)	
SESSION 7 - 4D (GORDON SUITE)		
13:20	A tiered approach for maximising the value of a noisy 4D seismic data in a carbonate reservoir	Heriot Watt University
13:45	Gaining confidence in a challenging 4D dataset: An example from the Buzzard Field	CNOOC International
14:10	Schiehallion 4D: 9 vintages and still learning	BP
14:35	NETWORKING BREAK (CROMBIE SUITE)	
SESSION 8 - THE GEOPHYSICS VALUE CHAIN (GORDON SUITE)		
15:05	Deep crustal structure beneath the North Sea region from ambient seismic noise tomography	University of Aberdeen
15:30	Imaging volcanics and intra-volcanic reservoir intervals: comparison of OBN and Single/Dual Azimuth Broadband streamer data on the Corona Ridge, West of Shetlands, UKCS	Siccar Point
15:55	Shooting a rich azimuth simultaneous dual triple source survey in the West of Shetlands	CGG
16:20	Short wavelength time and velocity uncertainty associated with highly faulted overburden: an example from the Cambo Field, West of Shetlands, UKCS	Siccar Point
16:45	CLOSING REMARKS - SPE ABERDEEN	

The organisers reserve the right to amend the programme as necessary – see website for updates on programme timings or further details.

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SPONSORSHIP & EXHIBITION OPPORTUNITIES

SPE Aberdeen is a not for profit organisation and are organisers of this event. All surplus funds raised will get reinvested into various initiatives to help support our future generation of young geoscientists.

All sponsorship opportunities will ensure your logo is prominently positioned across all promotional materials, including the SPE website, onscreen graphics and abstracts book. Your company will also be recognised by the Conference Chair. Additional benefits are outlined in each package below. All costs outlined exclusive of VAT.



SPE Aberdeen is a not for profit organisation and are organisers of this event. All surplus funds raised will get reinvested into various initiatives to help support our future generation of young geoscientists.

EVENT SPONSOR **£3,000**

- Two complimentary delegate passes
- Free pop up stand to display in conference hall

LUNCH SPONSOR **£1,950**

- Logo displayed at catering points during lunch

BREAKFAST SPONSOR **£1,200**

- Logo displayed at catering points during breakfast

REFRESHMENTS SPONSOR **£1,200**

- Logo displayed at catering points during two refreshment breaks

DELEGATE BAG SPONSOR **£1,950**

**These can either be provided in kind or can be sourced for you at a cost.*

- Logo on delegate bags together with the event logo

STATIONERY SPONSOR **£1,200**

**Pens and pads can either be provided in kind or can be sourced for you at a cost.*

- Branded stationery issued to all delegates

EXHIBITION STANDS **£950**

We have a limited number of exhibition stands available. There will be ample opportunity for maximum interaction between exhibitors and delegates during the registration period, coffee breaks and during lunch.

- **A basic exhibition space (approx. 3m wide x 2m deep)**
Suitable for a pop-up portable display stand or table top display. Two or more adjacent units can be combined to make a larger space
- **One free delegate to attend the seminar**
- **Logo in event brochure issued to all delegates**
- **One trestle table & 2 chairs provided**

To discuss these opportunities in more detail, contact Suzanne on 01224 646311 or email aberdeen.events@spe-uk.org.