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PETEX Plenary ♦ Machine Learning Workshop ♦ Diversity Session

OLYMPIA LONDON 27-29 NOVEMBER 2018

Welcome to PETEX 2018

Ladies and Gentlemen, on behalf of the PESGB, the organising committees and all the staff and volunteers involved in this year's event it is with great pleasure that I welcome you to PETEX 2018.

What a difference two years can make since our last conference when we faced challenging times. There is no doubt that we are in the midst of a recovery and this year's conference theme fully reflects the 'new optimism' that is pulsing through our industry, although there is still a note of caution in the wind.

This year is gearing up to be hugely successful. Our return to Olympia is setting us up for success. Abstract submissions were a record high providing an outstanding technical programme. The enlarged show floor space is fully sold-out and we will be showcasing the very best our industry and the people who work in it have to offer. You will see that new technologies and work practices are developing at pace and beginning to change the way our industry does business. I am genuinely hopeful about the future.

It bears repeating that PETEX is not just a conference and exhibition. It is a community of professionals that have the opportunity to take time out, to think, challenge, discuss, share, learn, and participate. A chance to meet old friends, make new contacts and become energised for an exciting, if not challenging, future ahead.

Enjoy this year's conference.

Richard Fox
PETEX 2018
DIRECTOR



STRATEGY & RISK

ENABLING TECHNOLOGY

NEW FRONTIERS

MATURE FIELDS & BASINS

BIG DATA

FUTURE WORKING ZONE

POSTER SESSIONS

PETROLEUM GEOSCIENCE
COLLABORATION SHOWCASE

GET INVOLVED

The Main Auditorium, Hall One, Hall Two and the Collaboration Showcase have interactive Q&A system through **Slido**.

Either download the app or visit: <https://www.sli.do/>
Login in using **#PETEX**, choose the session you are at and then send your question(s) along with the number 1, 2 or 3 depending on which position in the session the talk is.

@PETEXLtd #PETEX2018



TUESDAY 27 NOVEMBER

PETEX
2018
ABSTRACT
VOLUME

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E2

	MAIN AUDITORIUM KEYNOTES				GEOLOGICAL SOCIETY / PESGB PETROLEUM GEOSCIENCE COLLABORATION SHOWCASE		FUTURE WORKING ZONE EXHIBITION FLOOR		
	SESSION CHAIRS R. Fox (FEPC) & M. Branston (WesternGeco)				The OGA as an Enabler of Collaborative Research		The Effect of Big Data on the Petroleum Industry		
10.00	Richard Fox Exploration Director, <i>FEPC</i> Chair's Welcome		13.30	Strategy & Risk: Overview & Case Studies	Enabling Technology: Moving to the Sea Floor	South Atlantic Margin Exploration	Unlocking Regional Exploration in the UKCS – The Role of Collaboration, New Interpretations and Exploration Insights J. Bagguley¹, M. Gall¹ ¹Oil & Gas Authority	13.15	Session Introduction Talk M. Hartung¹ ¹Target Energy Solutions
			14.00	Exploration Strategy and Risk K. Myers¹ ¹Westwood Global Energy	Is the Age of Ocean Bottom Seismic Upon Us? J.H. Kommedal¹ ¹Aker BP	South Atlantic Exploration: A Step in the Right Direction H. Doran¹, E. Zanella, J. Collard, V. Mistry¹ ¹Westwood Global Energy	13.30	How to Prepare for Big Data and Data Analytics T. Curtis¹ ¹PPDM	
			14.30	Siccar Point Energy: Building a Portfolio with Private Equity Funding – Getting the Right Balance of Risk and Reward I. Bartholomew¹ ¹Siccar Point Energy	A New Look at Source Efficiency and Quality in OBN Acquisition E. Fromyr¹, J.R Robertson² ¹Magseis, ²Seismic Apparition	A Full Tectonostratigraphic Model for the South Atlantic from Conjugate Margin Data: Spanning the End-Member Break-Up Models K. McDermott¹, C. McDermott², S. Patruno¹, N. Hurst¹, P. Bellingham¹, B Horn² ¹ION E&P Advisors,UK, ²Imperial College London, ³ION E&P Advisors, USA	14.00	Big Data, Big Hype? Why not – we can Benefit Big Time! M. Hartung¹ ¹Target Energy Solutions	
			15.00	Forecasting Value in Acquisitions: What Created or Destroyed Value in Centrica Energy's Acquisition of Venture Production? G. Ward¹, S. Barber², A. Borushek¹ ¹RISC, United Kingdom, ²RISC, Australia	Least-squares Full Wavefield Migration for Shallow Geohazard Analysis: A North Sea OBC Case Study T. Martin¹, S. Lu², F. Liu², J. Fasterling³, J. Musser³ ¹PGS, United Kingdom, ²PGS, USA, ³Total E&P Denmark	New Ideas Applied to the 1988, A-J1 Rift, Oil Discovery, Orange Basin, West Coast, South Africa P. Burden¹, T. Tonsing¹, H. Pferdekamper¹ ¹Africa Energy Corporation	14.30	Filling Seismic Data Lakes - A Practitioner's Perspective C. Jones¹ ¹Osokey	
			REFRESHMENT BREAK				15.00	REFRESHMENT BREAK	
10.15	William Zimmern Head of Macro Economics, <i>BP</i>		15.30	Strategy & Risk: Review & Analysis	UKCS-Strategy: Review & Case Examples	North Atlantic Margin Exploration	Collaboration in Regional Exploration	15.30	Advanced Seismic Technologies
			16.00	European Exploration; Fewer, Better Wells Bode Well For Recovery A. Wilson¹, A. Latham¹ ¹Wood Mackenzie	Has the UK E&P Sector Turned a Corner? G. Newcombe¹ ¹Oil & Gas Authority	From Rifting to Hyperextension: Upper Jurassic – Cretaceous Succession of the Porcupine Basin, Irish Atlantic Margin L. Whiting¹, P. Haughton¹, P. Shannon¹ ¹Irish Centre for Research in Applied Geosciences	The Case for Collaboration Exploration Field Geology I. Sharp¹, J. Verges², R. Gawthorpe¹, D. Hunt³ ¹University of Bergen, ²Researcher at Institut de Ciències de la Terra Jaume Almera, ³Equinor ASA	16.00	Bringing Rocks to Life: Inspiring the next generation of Earth Scientists M. Goodwin¹, L. Hamlet¹ ¹North West Highlands Geopark
			16.30	Prospectivity of the outer mid-Norwegian Volcanic Rifted Margin Constrained by new 3D Seismic Data and Links to the Faroe-Shetland Basin J. Millett^{1,2}, S. Planke¹, B. Manton¹, D. Zastrozhnov¹, B. Bellwald¹, D. Jerram^{3,4}, D. Maharjan¹, R. Myklebust⁵, B. Kjøllhamar⁵, J. Halliday⁵, A. Birch-Hawkins⁵ ¹VBPR, ²Department of Geology & Petroleum Geology, University of Aberdeen, ³DougalEARTH, ⁴CEED, University of Oslo, ⁵TGS	New insights from Heritage Data – Adding Value Through Reprocessing on the UKCS A. Cooke¹, M. Yanez¹, C. Tyagi¹, M. Steiger-Jarvis¹, J. Bailey¹, M. Shadrina¹, S. Dingwall² ¹WesternGeco, ²Ithaca Energy	Paleocene Sandstones in the Northeast Rockall Basin Revealed Using Chemostratigraphy: Successful Testing of Geological Hypotheses and Prospect Risk Reduction C. Grove¹, A. Finlay² ¹Siccar Point Energy Limited, ²Chemostrat Limited	Constructing a New Integrated Stratigraphic Framework for the Mesozoic of the Central Atlantic M. Casson¹, J. Redfern¹, J. Jeremiah², L. Bulot¹ ¹University of Manchester, ²Golden Spike Geosolutions	16.30	Migration algorithms and their impact on amplitudes for inversion J. Deo¹ ¹Seismic Image Processing
			17.00	Cognitive Bias – The Pick-Pocket in your Portfolio. A Look at how Cognitive Bias Destroys Value and a Review of Some of the Latest Techniques to Tackle the Problem L. Pidsley¹ ¹Shapewerk	March of the Penguins - Using Full Broadband Seismic Imaging & Interpretation to Add Value to the Opportunity Portfolio A. Goswami¹ ¹Shell UK	The Porcupine Basin, Ireland – Insights from New 3D Seismic A. McCarthy¹, R. England¹, S. Nairne¹, M. Raghvani¹ ¹Woodside Energy	Mass-Transport Complexes (MTC) and Shelf-Edge Deltas: Seismic Geomorphology and Clinoform Trajectory Analysis in the Santos Basin, Offshore Brazil M. Steventon¹, C. Jackson¹, D. Hodgson², H. Johnson¹ ¹Imperial College London, ²University of Leeds	17.00	Innovation Partner in Oil & Gas
			LUNCH					Gillian White¹ ¹OGTC	



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Networking Reception
17.30 -19.30
See inside for a drinks map of the exhibition floor.
Open to all delegates and exhibitors.

09.30	MAIN AUDITORIUM	HALL ONE	HALL TWO	PGCS
	Mature Fields to Rank Exploration	Enabling Technology: What Can We Learn From Norway?	New Frontiers: Where Next?	The NERC Centre for Doctoral Training in Oil and Gas
10.00	Unlocking MER at a Sub-Basin Level Through Industry Collaboration <i>P. Lindop¹, C. Percival²</i> <i>¹1st Subsurface, ²The Parkmead Group</i>	Imaging the Senja Ridge: Triple Source Acquisition and 3D Broadband Processing in the Barents Sea <i>S. Stokes¹, D. Manns¹, M. Romanenko¹, B. Kjolhamar¹, R. Myklebust¹</i> <i>¹TGS</i>	Oil Prospects in the Mozambique Channel: Where Incipient Subduction Meets Passive Margin <i>A. Intawong¹, R. MacDonald¹, P. Hargreaves¹, K. Rodriguez¹, N. Hodgson¹, P. Esestime¹</i> <i>¹Spectrum Geo</i>	The Natural Environment Research Council (NERC) Centre for Doctoral Training (CDT) in Oil and Gas: Vision vs Reality <i>R. Hunter¹, J.R. Underhill¹</i> <i>¹Centre for Exploration Geoscience, Heriot Watt University</i>
	Compiling, Integrating and Using Publicly Available Data to Maximise Exploration and Development Opportunities in a Mature Basin. <i>M. Jacobs¹, C. Imrie¹, H. Kombrink¹</i> <i>¹Lloyd's Register</i>	Addressing the Imaging Challenges in the Barents Sea by Shooting Over the Seismic Spread <i>P. E. Dhelie¹, V. Danielsen¹, J. E. Lie¹, A. K. Evensen¹, V. Vinje², A. Wright², N. Salaun², R. Sablon², A. Camerer², T. Elboth²</i> <i>¹Lundin Norway, ²CGG</i>	Successes, Challenges and Future Opportunities in the Pre-Salt Kwanza & Benguela Basins of Angola; Predicating where the Best Oil Charged Reservoirs Might be Found <i>M. Tyrrell¹, D. Cunha², Alex Vartan¹</i> <i>¹PGS, ²Sonangol</i>	The Use of Virtual Outcrop Models, Digital Geology and Legacy Data to Reappraise Devonian Basin Evolution in NE Scotland and Shetland: Analogues for the Offshore Clair Basin and Clair Oil Field, West of Shetland <i>T. Utley¹, R. Holdsworth^{1,2}, E. Dempsey², K. McCaffrey^{1,2}, R. Strachan⁴, A. Morton⁵, R. Jones²</i> <i>¹Durham University, ²Geospatial Research Limited, ³University of Hull, ⁴University of Portsmouth, ⁵HM Research Associates</i>
10.30	The Hydrocarbon Potential of the Jameson Land Basin, East Greenland - One of the World's Last Remaining Undrilled Frontier Basins <i>J. Jacques^{1,2}, M. Bilsland¹, R. Hoult²</i> <i>¹Greenland Gas and Oil, ²JMJ Petroleum</i>	Shallow Water Attenuation of Multiples by Inversion - Real Data Examples <i>L. Letki¹, A. Kumar¹</i> <i>¹DownUnder GeoSolutions</i>	Onshore and Shallow Water Benin;The Potential of Devonian, Jurassic, Cretaceous and Tertiary Plays within this Low Cost, High Impact Frontier <i>P. Tyrrell¹, P. Elliott², M. Lofgran²</i> <i>¹PetroVannin, ²Elephant Oil</i>	Structural and Stratigraphic Controls on the Breagh Gas Field, UK Southern North Sea <i>R. J. Grant¹, M. G. Booth¹, J. R. Underhill¹</i> <i>¹Centre for Exploration Geoscience, Heriot-Watt University</i>
11.00	REFRESHMENT BREAK			
11.30	Mature Fields: Case Studies	Enabling Technology: Full Waveform Inversion	New Frontiers: Where, Why & How Next?	The Role of MSc Courses in Training Our Geoscientists of the Future
	Buzzard: Learnings from a 21st Century Field Development <i>E. Taylor¹</i> <i>¹Nexen Petroleum</i>	Reservoir Imaging Using QFWI, Seismic Inversion & Bayesian Classification - A Black Sea Case Study <i>A. Fogg^{1,2}, O. Costriliuc², J. Moore⁴, R. Holden⁵</i> <i>¹Monarch Geophysical Services Ltd, ²Arun Geoscience Ltd, ³Black Sea Oil & Gas SRL, ⁴Formerly CGG, ⁵Formerly Monarch Geophysical Services Ltd</i>	The Case for Mesozoic Sand-Rich Clastic Systems Offshore Northern Morocco, with Potential for Both Shallow Marine and Deeper Water Turbidite Prospectivity <i>D. Wallace¹, J. Kemper¹, J. Wallis¹, P. Ramsey¹, R. Fox¹</i> <i>¹Chariot Oil and Gas</i>	Hydrocarbon Related Masters Provision in the UK – Past-Present and Future <i>J. Redfern¹, D. Iacopin², G. Hampson², I. Watkinson⁴, H. Lever⁵, A. Gardiner⁵, R. Clark⁶, T. Torvela², I. Boomer², R. Worden⁸</i> <i>¹University of Manchester, ²Aberdeen University, ³Imperial College, ⁴Royal Holloway, ⁵Heriot Watt, ⁶Leeds University, ⁷Birmingham University, ⁸Liverpool University</i>
12.00	Extending the Beryl Field Life: Recent Exploration Success at Callater, Storr, Corona, and Garten <i>D. Helgeson¹, J. Towart¹, P. Rose¹, J. Gibson¹</i> <i>¹Apache North Sea</i>	Enhanced Velocity Model Building using Constrained Full Waveform Inversion for an OBN Survey over the Golden Eagle Field in the North Sea <i>R. Ford¹, L. Zhang², N. Hutchinson¹, R. Sakhabutdinova¹, A. Wilson³</i> <i>¹WesternGeco, UK, ²WesternGeco, Australia, ³Nexen Petroleum UK Ltd</i>	Gabon's 'Wild West Frontier' Promises a Golden Age of Discovery for the Deep-Offshore <i>T. Younis¹, M. Clutterbuck¹, P. Birch¹</i> <i>¹Impact Oil and Gas</i>	Re-defining the Stratigraphy and Depositional History of the T10-T38 Deepwater Play, Northwest Judd Basin, UK Atlantic Margin <i>D. Colmenares¹, B. Hedley²</i> <i>¹University of Aberdeen, ²Siccar Point Energy Ltd</i>
12.30	From Trash to Treasure: BP's CNS Exploration Campaign <i>R. Parr¹, E. Hulm¹</i> <i>¹BP</i>	Full Waveform Inversion: From Low to High Frequencies, from Imaging to Interpretation <i>L. Letki¹, M. Lamont¹, T. Thompson¹</i> <i>¹DownUnder GeoSolutions</i>	Mexico's Energy Reform: First Exploration Well of the New Era Leads to the Zama Discovery <i>A. Mannie¹, T. Davies¹, D. Griffin¹</i> <i>¹Premier Oil</i>	Black sea eustatic variation through time and the impact on hydrocarbon accumulations <i>N.Delcourt¹, L.Calle-Benavides², G.Roberts¹</i> <i>¹Imperial College London, ²Total S.A.</i>
13.00	LUNCH			
14.00	Big Data	Enabling Technology: Imaging & Time Lapse	New Frontiers: Where, Why & How Next?	The Role of Joint Industry Programmes in Advancing Science
	Artificial Intelligence, Automation and Cloud Compute Enabling Faster Turn-Arounds in the Exploration through to Production Life Cycle <i>S. Freeman¹, R. Akkurt¹, R. Bloor¹, H. Maniar¹, R. King¹, A. Goyal¹, M. Nickel¹, A. Newton¹, S. Tilley¹, K. Vadivel¹, M. Cleminson¹, A. Kaul¹, V. Aarre¹, S. Smith¹</i> <i>¹Schlumberger ¹WesternGeco</i>	Reef Interpretation Through Diffraction-Enhanced Imaging in Dip-Angle Domain <i>Y. Protkova¹, K. Smirnov², E. Voronovicheva², V. Sablina³, G. Kalinichenko³, E. Landa⁴, C. M. Paleari⁴</i> <i>¹Wintershall Russland GmbH, ²PetroTrace LLC, ³Wolgodeminoil JV LLC, ⁴PetroTrace Ltd</i>	Imaging and Evaluating Complex Pre-Salt Carbonate Environments: An Eastern Mediterranean Sea Velocity Model Build Case Study <i>M. Bell¹, A. Asnaashari¹, S. Fairhead¹, W. Powell¹</i> <i>¹PGS</i>	Building Research Partnerships that Deliver: Experiences from the SLOPE and LOBE Joint Industry Programmes <i>D. Hodgson¹, S. Flint², R. Lawford-Rolfe¹</i> <i>¹University of Leeds, ²University of Manchester</i>
14.30	A Comparative Analysis of Convolutional vs. Deep Neural Networks <i>E. Zabihi Naeini¹, H. Di²</i> <i>¹Ikon Science, ²Georgia Institute of Technology</i>	Multi Sensor Acquisition and Processing for Time-Lapse Seismic <i>F. Buriola¹, P. Fallon¹, S. Hollingworth¹, G. Poole¹, J. Cooper¹, S. McDonald¹</i> <i>¹CGG</i>	Red Sea Offshore Egypt Pre- and Post-Salt Potential: Extending Suez' Proven Petroleum System to the South and Saudi Arabia's Success to the West <i>F. Winter¹, A. Checconi, M. AbdulGhaffar², A. Mostafa², E. T. Serra¹, N. Tranter¹, B. Sayers¹</i> <i>¹TGS, ²Ganope</i>	Re-Evaluating Fluvial Architecture of Pre-Vegetation Reservoirs Using Large Digital Outcrop Datasets From the Tumblagooda Sandstone, Western Australia, Southern Carnarvon Basin <i>G-M. Bradley¹, J. Redfern¹, D. Hodgetts¹</i> <i>¹University of Manchester</i>
15.00	BIG DATA! Can Multiple Seismic Attributes and Machine Learning Lead to Better Interpretation Results? An Example from the North Sea <i>T. Gibbons¹, P. Mackintosh², R. Roden³</i> <i>¹Hoolock Consulting, ²Spirit Energy, ³Geophysical Insights</i>	4D Analysis, Combining Shallow Hydrophone and Multi-Component Streamer: The Cinguvu Field Offshore Angola Example <i>C. Reiser¹, B. Webb², M. Bertarini², D. Lecer³, C. Rizzetto³</i> <i>¹PGS, ²Eni, Italy, ³Eni, Angola</i>	Identifying source rocks in frontier basins on seismic data, evidence from West Africa and implications in the Eastern Mediterranean <i>David Eastwell¹</i> <i>¹Spectrum Geo</i>	The Timing of Fracturing and Fluid-flow in Jurassic Mudrocks of the Cleveland Basin using U-Pb Calcite Geochronology – A Collaborative Project between Durham University, BGS and the NERC Isotope Geosciences Laboratory (NIGL) <i>J. Lee¹, J. Imber¹, N. Roberts^{2,3}, R. Haslam²</i> <i>¹Durham University, ²BGS, ³NERC Isotope Geosciences Laboratory</i>
15.30	REFRESHMENT BREAK			
16.00	Exploration Case Studies	Enabling Technology-Time Lapse	New Frontiers - Where, Why and How Next?	A Digital Future
	Unveiling Near-Field Potential through Reliable Pre-Stack Broadband Attributes: An Integrated Case Study from the Tertiary Injectite Play in the North Sea Viking Graben <i>N. Pernin¹, C. Reiser¹, T. Bird¹, L. Feuillebois¹</i> <i>¹PGS</i>	The Effect of Deghosting on the 4D Response: Usan field, Nigeria <i>P. Agnisola¹, R. O'Driscoll¹, P. G. Smith¹, D. Chu², E. E. Assiak³, C. Ugwueze⁴, P. Ukerun⁴</i> <i>¹ION, ²ExxonMobil, ³Esso E&P, ⁴Bulwark Services</i>	Integrating Seismic, FTG, and HRAM Data to De-Risk Structurally Complex Prospects: Insights from an Active Transpressional Intraplate Orogen, Gobi Altai, Mongolia <i>S. Rippington^{1,2}, T. Archer³, J. Tully⁴, B. Erdenebat⁴, A. Barnwell⁵, S. Parker⁵</i> <i>¹Astute Geoscience Ltd, ²University of Leicester, ³Reid Geophysics Ltd, ⁴Petro Matad Ltd, ⁵Barnwell Parker Geoscience Ltd</i>	Starting a New Collaborative Outreach Programme Within the Downturn: Showcasing the Benefits of the STEPS Initiative for Students, Industry & Academia <i>H. Smyth¹</i> <i>¹Halliburton</i>
16.30	Exploring to New Depths: Evaluating Reservoir Quality for a Deep Triassic Play in the South Viking Graben Using a Rock Physics Driven Inversion <i>T. Bailey¹, M. England¹, H. Morris¹, P. Matthews¹, H. Dye¹</i> <i>¹Azinor Catalyst Ltd</i>	4D Seismic in the West of Shetlands: Laggan Gas Condensate Field Optimization Case Study <i>C. Parry¹, T. Blanchard¹, P. Matthews¹, K. Budkina¹</i> <i>¹Total E&P UK</i>	Opening Up New Plays in the Austral Basin, Southern Argentina <i>J. Bessa¹</i> <i>¹Echo Energy plc.</i>	Safari - What's next? <i>J. Howell¹</i> <i>¹University of Aberdeen</i>
17.00	New Insights in the West of Shetlands: Using Multicomponent 3D Data to Reassess Exploration Potential <i>O. Ward,¹ K. Broadbent,¹ M. Francis,¹ O. Schenk,¹ O. Shtukert,¹ A. Karvelas¹</i> <i>¹WesternGeco</i>	A New 4D Approach to Compensate Illumination Differences of Non-Repeated Time-Lapse Acquisitions <i>D. Lecer¹</i> <i>¹PGS</i>	Exploration Play Types Identified in the Cuban Offshore from New Seismic Data <i>O. Lopez Corzo¹</i> <i>¹CUPET</i>	Accelerating North Sea Development Through Open Collaborative Exploration <i>G. Loftus¹, A. Scardina², S. Neal³, P. Burgess⁴</i> <i>¹K2V Limited, ²VGS & Associates Pty Ltd, ³Knowledge Through Mapping, ⁴University of Liverpool</i>

FUTURE WORKING ZONE	
New Integrated Collaborative Working Approaches	
10.00	Using open data and collaboration to transform the industry <i>S. Lunn¹</i> <i>¹Mapstand</i>
10.30	The present is the key to the future: UK Geoenergy Observatories <i>A. Kingdon¹</i> <i>¹BGS</i>
REFRESHMENT BREAK	
The Rise of Machine Learning	
11.30	Automatic indexing of subsurface documents using machine learning: A case study on seismic acquisition reports <i>H. Blondelle¹</i> <i>¹Agile Data Decisions</i>
12.00	Development and Application of a Cognitive Model for the Determination of Facies from Core Photographs <i>D. Hume¹</i> <i>¹Core Labs</i>
12.30	Prospect Chancing with the New Artificial Intelligence: Is it for Real? <i>C. Stabell¹</i> <i>¹Decision Resources & Designs,</i>
LUNCH	
Cloud Based Technologies & Services	
13.45	Cloud Computing for Subsurface Workflows: The inherent advantages of flexibility and scalability <i>J. Sayer¹</i> <i>¹Cegal</i>
14.15	Connecting cloud technology with seismic challenges: A next step in geoscience workflow efficiency <i>J. Nicholson¹</i> <i>¹Osokey</i>
REFRESHMENT BREAK	
Novel Technologies for the Oil & Gas Industry	
15.15	Session Introduction Talk <i>J. Cruise¹</i> <i>¹Target Energy Solution</i>
15.30	Breaking Down Data Silos with Open Standards and Hybrid-Cloud <i>J. Cruise¹</i> <i>¹Target Energy Solution</i>
16.00	Entirely Novel Seismic Processing Technology – Rex Virtual Drilling – Utilizing Resonance in Seismic Data to Indicate for Presence of Liquid Hydrocarbons <i>K. Skantze¹</i> <i>¹Rex International Holding Ltd</i>
16.30	Using virtual outcrop analogues to give insight and training throughout the life cycle of a field: Examples of natural fracture characterisation in conventional and unconventional fractured reservoirs <i>S. Daniels¹</i> <i>¹University of Durham</i>
17.00	Results from the UK's first Geoscience Hackathon <i>M.Hall¹</i> <i>¹Agile Data Decisions</i>



Exploration Managers' Lunch 13.00

Invitation-only lunch attracting senior figures from across the industry.

Evening Excursion 18.00 till late

Open to all delegates and exhibitors. Don't forget to get your voucher stamped at the sponsoring exhibitor booths.

THURSDAY 29 NOVEMBER

	MAIN AUDITORIUM PETEX PLENARY			14.00 - 16.00	
10.00	Interactive debate session on the topic: Time to be optimistic? Exploring The Next 5 Years of Oil & Gas Join Carole Nakhle (Chief Executive Officer, Crystol Energy) for an exciting panel debate with: Professor John Underhill, Heriot-Watt University Irene Waage Basili, CEO, Shearwater Geoservices Phil Loader, Strategic Advisor, Secrest Capital Group Lydia Rainforth, CFA, Managing Director, European Energy Equity Research, Barclays Malcolm Brown, President, Geological Society of London Valery Chow, Senior Energy Advisor within the Shell Scenarios Team			CLUB ROOM EMBRACING A NEW OIL AND GAS: CAN IT BE DIVERSE, INCLUSIVE, PROFITABLE? This session is a diversity and inclusion panel discussion which will discuss positive changes and actions individuals, both employees and employers can make in their workplaces to promote an inclusive place to work for everyone. Dr. Sarah Peers (INWES) Jay Surti (WES) Bani Norouzian (StrivE Excellence) Nicola Adams (BP) Joshua Atkins (PRIDE Energy) Simon Fanshawe (POWERful Women and Diversity by Design) Directly afterwards there will be a 'Fika,' a Swedish custom of coffee, cake and socialising which will provide the opportunity for people to further discuss the topics covered in the session.	
12.30	Followed by a special awards ceremony for the best presentations at PETEX 2018				
13.00	LUNCH				
	MAIN AUDITORIUM FIRST EAGE/ PESGB WORKSHOP ON MACHINE LEARNING: EUROPEAN EDITION	HALL ONE SEISMIC RESERVOIR CHARACTERIZATION WORKSHOP	EXHIBITION FLOOR FUTURE WORKING ZONE		
			The Future - Digital Transformation		
13.15	Welcome, HSE & Opening				
13.30	Artificial Intelligence in E&P- Perspectives on an upcoming exciting journey! Y. LeStunff ¹ ¹ Total				
14.00	Achieving Success in AI Adoption - What can we learn from other industries? M. Roberts ¹ ¹ Tessela	Seismic Information and the Limits of Inversion P. Connolly ¹ ¹ PCA Ltd.	Easing the flow of data is a cornerstone of industry 4.0 D. Wallis ¹ ¹ Energistics		
14.30	S. Freeman ¹ Schlumberger	Monte Carlo Modelling of Fault Seal and Retention: Implications for Exploration Trap Analysis N. Grant ¹ ¹ ConocoPhillips UK Ltd	Enabling a digital transformation on the UKCS S. Ashley ¹ ¹ OGTC		
15.00	REFRESHMENT BREAK	North Sea Examples of Kirchhoff Least Squares Migration for Quantitative Interpretation C. Leone ¹ ¹ WesternGeco	Broadband imaging of multimeasurement seismic data for prospect identification through interpretation and AVO analysis A. Kanrar ¹ ¹ Schlumberger		
15.30	Geocomputing Skills for Digital Geoscientists M. Hall ¹ J. Bagguley ² ¹ Agile, ² Oil & Gas Authority	Improving Geologic Interpretation and Reservoir Characterization by Integrating Forward Stratigraphic Modelling in the G&G Workflow S. Courtade ¹ ¹ Schlumberger	Advanced Seismic Technologies From Unstructured to Structured: A data analytics approach to tabulated data and contextual information extraction C. Frost ¹ ¹ DataCo		
16.00	Moore's Law in Geo Machine Learning E. Larsen ¹ ¹ Earth Science Analytics	The impact and Importance of VTI Anisotropy in Subsurface Workflows and Inversion for Seismic Reservoir Characterisation K. Waters ¹ ¹ Ikon Science Ltd	From Geostatistics to Virtual Reality: How 3D digital outcrop data can improve your subsurface reservoir models D.Hodgetts VRGS / University of Manchester IP		
16.30	Panel Discussion	SUNDOWNER 15.30 - 17.30			UKCS Regional Mapping project Followed by Q&A H. Kombrink¹ ²Lloyds Register

POSTER SHOWCASE TUESDAY 27 NOVEMBER

13.30	Cretaceous Reservoir & Seal Rocks In Namibian Offshore Basins: How Do They Compare With South African, Angolan And Brazilian Basins? A. McAfee ¹ , M. Baron ¹ ¹ Core Laboratories
13.45	The Dynamic Processes Of A Transform Margin- A Case Study: The Structural Evolution Of The Diaz Marginal Ridge And Formation Of The Southern Outeniqua Basin, South Africa J. Khan ¹ , D. Paton ¹ ¹ Basin Research Group
14.00	Observed Link Between Folded Seaward Dipping Reflectors (Sdrs) And Large-Scale Morphology And Architecture Of The Early Cretaceous Carbonate Build-Up And Platform In The Orange Basin A. Intawong ¹ , P. Esestime ¹ , K. Rodriguez ¹ , N. Hodgson ¹ ¹ Spectrum Geo
14.15	Seismic Insights Into The Exploration Potential Of Offshore Argentina H. Kearns ¹ , K. Rodriguez ¹ , S. DeVito ¹ ¹ Spectrum Geo
14.30	Prospectivity Of Cuba Offshore Illuminated From The Newly Acquired Seismic Data K. Shi ¹ ¹ BGP Offshore
14.45	Assessing Hpht Sandstone Reservoir Quality: Identifying The Reality D. Charlaftis ¹ , S. Jones ¹ , P. Dyer ¹ , P. Cubillas ¹ , S. Acikalin ² , M. Osborne ³ ¹ Durham University, ² Newcastle University, ³ BP
15.00	
15.15	Big Data, Analytics, Automation, Visualisation & Machine Learning For Exploration: Cutting Through The Hype And Jargon – What Are They, Where Can They Be Effectively Used, How And Where To Start, What Are The Successes, And How To Get Success. Some Research Into Initial Results, And An Industry Framework P. Floyd ¹ ¹ Wipro
15.30	How To Prepare For Big Data And Data Analytics T. Curtis ¹ ¹ Professional Petroleum Data Management Association
15.45	Automatic Indexing Of Subsurface Documents Using Machine Learning: A Case Study On Seismic Acquisition Reports H. Blondelle ¹ , J. Micaelli ¹ ¹ AgileDD
16.00	Seismic Interpretation Using Bayesian Deep Learning L. Mosser ¹ , M. Steven-ton ¹ , R. Oliveira ¹ ¹ Department of Earth Science and Engineering, Imperial College London
16.15	Filling Seismic Data Lakes - A Practitioner’s Perspective C. Jones ¹ , J. Selva-ge ¹ ¹ Osokey Ltd
16.30	Integrated Sedimentology, Palynology And Geochemistry Of The UK Mississippian Bowland Shale Formation: An End-Member Source Rock? J. Emmings ^{1,2} , S. Davies ² , C. Vane ¹ , M. Leng ^{1,3} , M. Stephenson ¹ , S. Poulton ⁴ ¹ British Geological Survey, ² University of Leicester, ³ University of Nottingham, ⁴ University of Leeds

Unveiling Offshore Ras Al Khaimah - New Exploration In A Mature Basin J. Wallace¹ <i>¹Polarcus</i>	
A Fresh Look At Mature Fields Using A Collaborative Fast Track Approach For Redevelopment S. McFadyen¹, N. Wands¹, R. Saxena¹ <i>¹Halliburton</i>	
Recent Exploration Activities In The Mature Petroleum Provinces – The Carpathian-Pannonian Transect From Southern Poland To Hungary Revisited P. Gawenda¹ <i>¹IHS Markit Ltd</i>	
High Resolution Processing Of Multivintage Data In The Moray Firth E. Henden¹, K. Wright¹, G. Hulks¹, S. Drewell¹, A. Salem¹, S. Baldock¹, N. Ratnett¹, S. Jansen¹, J. Mao¹ <i>¹TGS</i>	
Seismic Forward Modelling For Seal Bypass Structures Based On Novel Psdm Method Z. Cui¹, D. Iacopini¹, I. Lecomte¹ <i>¹University of Aberdeen</i>	
Quantitative Interpretation Of Chalk Reservoirs For Lithology And Fluids Prediction - Integrating Regional Rock Physics And Multicomponent Broadband Seismic Analysis <i>C. Reiser¹, N. Pernin¹, T. Bird¹, L. Goswami¹</i> <i>¹PGS</i>	
REFRESHMENT BREAK	
Mature Fields & Basin	
Geomechanical Solution Integrating Advanced Acoustic Measurements And Formation Evaluation In Unconventional Reservoirs A. Reyes¹, V. Lujan¹, C. Chatterjee¹, C. Majumdar¹, K. Prasad¹, A. OO¹ <i>¹Schlumberger</i>	
Low Frequency Seismic Technology: The Next Step In Offshore Oil And Gas Exploration, Extending Field Life And Maximising Recovery I. Starostin¹, E. Biraltsev² <i>¹Tensor Geo Limited, ²ZAO Gradient</i>	
Exploration Using CSEM In The North Sea P. Gabrielsen¹, E. Nerland¹, S. Fanavoll¹ <i>¹EMGS</i>	
Entirely Novel Seismic Processing Technology – Rex Virtual Drilling – Utilizing Resonance In Seismic Data To Indicate For Presence Of Liquid Hydrocarbons K. Skantze¹ <i>¹Rex International Holding Ltd</i>	
Shows Evaluation And Barrier Identification Using Advanced Mud Gas Analysis T. Rognmo¹ <i>¹Geoprovder AS</i>	
Pore Pressure Evolution And Distribution Across A Tectonostratigraphically Complex Basin, Taranaki Basin, New Zealand S. O'Neill¹, S. Jones¹, P. Kamp², R. Swarbrick^{1,3}, R. Crookbain⁴ <i>¹Department of Earth Sciences, Durham University, ²University Waikato, School of science, ³Swarbrick GeoPressure Consultancy Ltd., ⁴Shell Taranaki</i>	

The Coherence Function As A Quality Control For Multiple Modelling M. Bekara¹, C. Davison¹ ¹Petroleum Geo-Services	
Calculated Radioactive Heat Production From Basement & Sediments: Implications For Basin & Petroleum System Modelling A. Finlay¹, A. Carr², B. Hedley³, L. Holt³, P. O'Neill¹, D. Gardner⁴, J. Darling⁵ ¹Chemostrat Ltd, ²Global Exploration Services Ltd, ³Siccar Point Energy Ltd, IGI Ltd⁴, Portsmouth University⁵	
A Fracture Upscaling Method For Modelling Recovery From Hydraulically Fractured Tight Formations J. Sherratt¹, A. Sharifi Haddad¹ ¹University of Aberdeen	
Reservoir Modelling Workflows Are Evolving With Digital Transformation, Requiring Data Exchange Standards To Deliver Effective Collaboration And Trusted Results R. Philo¹, P. Neri¹, D. Wallis¹ ¹Energistics Inc	
A Holistic Approach To Model-Building In And Around Injectites: A Case-Study Offshore Norway V. Valler¹, N. Payne¹,T. Hallett¹, M. Kobylarski³, G. Venkatraman², J. Rappke², D. Fairclough³ ¹ION, ²Engie E&P Norge, ³Monarch Geophysical Services	
The Use Of Full Tensor Gravity Gradiometry To Build A Basin Model And Quantify Petroleum Potential; A Case Study From North Africa P. Versnel¹, J. Watson¹, S. Goodman¹, J. Argent², J. Canning², T. Marples², T. Archer³, D. Tripone² ¹AustinBridgeporth, ²Sound Energy, ³Reid Geophysics	
REFRESHMENT BREAK	
Enabling Technology & Workflow	
A New Approach For Taper Design In A 3D FK Filter M. Bekara¹, L. Duan¹ ¹Petroleum Geo-Services	
Structurally Conformable 2D To 3D Interpolated Volumes: An Aid To Interpretation S. O'Keefe¹, N. Ratnett¹, S. Baldock¹, N. Woodburn¹, W. Bradbury¹, M. Guo¹, B. Kjolhamar¹, S. Jansen¹, H. Bondeson¹ ¹TGS	
A Comparison Between Airborne Gravity And Gravity Gradiometry; Showcasing Recent Improvements From An East Greenland Exploration Project J. Watson¹, S. Goodman¹, J. Jacques², G. Barnes¹ ¹AustinBridgeporth, ²Greenland Gas & Oil	
True Multiple Adaptive Subtraction Y. Liu¹ ¹Petroleum Geo-Services	
Wavelet-Compressed Gaussian Beam Migration L. Casasanta¹ ¹Shearwater Geoservices	
Improved Identification Of Genuine Dhis And Suppression Of False Anomalies Usinginteractive Amplitude-Thickness Crossplots And Seismic Trace Detuning A. Francis¹, S. Eckford¹ ¹Earthworks Reservoir	



Collaboration Showcase
Resolving Subsurface Geochemical Baseline Conditions For The Isotopic Monitoring Of Co2 Injected For Geological Storage At The Carbon Management Canada Field Research Station, Alberta R. Utley¹ , S. Gilfillan¹ , N. Utting² , G. Johnson^{1,3} , S. Haszeldine^{1,3} , F. Stuart¹ , D. Lawton^{1,6} ¹ <i>School of GeoSciences, The University of Edinburgh</i> , ² <i>CanmetENERGY, Natural Resources Canada</i> , ³ <i>Scottish Carbon Capture and Storage</i> , ⁴ <i>Scottish Universities Environmental Research Centre</i> , ⁵ <i>Containment and Monitoring Institute, Carbon Management Canada Research Institutes Inc.</i> , ⁶ <i>The University of Calgary</i>
Distribution And Co ₂ Storage Potential Of Miocene Sand Deposits In The Northern North Sea Above 60°N C. Lloyd¹ , M. Huuse¹ ¹ <i>he University of Manchester</i>
Source-To-Sink Analysis Of Reservoir Distribution: Eocene Dornoch-Hermod Sediment Routing System, Northern North Sea C. Brewer¹ , G. Hampson¹ , A. Whittaker¹ , G. Roberts¹ ¹ <i>Imperial College London</i>
A Case Study Of The Effects Of Zircon Fertility Bias In Sedimentary Provenance Studies From The Barents Shelf <i>M. Flowerdew¹</i> , E. Fleming¹ , A. Morton^{1,2} , D. Fre³ ¹ <i>CASP</i> , ² <i>HM Research Associates</i> , ³ <i>University of the Western Cape</i>
Nucleation, Growth And Linkage Of Extensional Detached Faults In Thin-Skinned Half Grabens L. Perez Diaz¹ , J. Adam¹ ¹ <i>Royal Holloway University of London</i>
Influence Of Igneous Intrusions On Porous Sedimentary Host Rocks M. Duffy¹ , D. Muirhead¹ ¹ <i>University of Aberdeen</i>

Collaboration Showcase
Thermal History Of Source Facies In The Orphan Basin, Newfoundland, Canada C. Knowles¹ ¹ <i>University of Manchester</i>
Facies Modelling And Petrophysical Evaluation Of The Norwegian North Sea E. Kaine¹ ¹ <i>University of Derby</i>
Linking Diagenesis And Petroleum System Evolution: A Case Study From Continental Carbonates In The Namibe Basin (Angola) E. Fiordalisi¹ , S. Schröder¹ , G. do Couto Ramos Pereira¹ , N. Rochelle-Bates¹ , I. Sharp² , R. Dixon³ ¹ <i>University of Manchester</i> , ² <i>Equinor</i> , ³ <i>BP Exploration</i>
Tectonic Evolution Of The Durban-Zululand Basin; Implications For Exploration In A Poorly Understood Frontier Margin A. Coventry¹ , D. Paton¹ , K. Rodriguez² , M. Bhattacharya³ , G. Duval³ , E. Mortimer¹ , M. Gouiza¹ ¹ <i>University of Leeds</i> , ² <i>Spectrum Geo</i> , ³ <i>CGG</i>
Implementing Field And Laboratory Data From Carbonate-Hosted Fault Zones Into T7 Fault Seal Analysis Workflows: A Case Study From Gozo A. Cooke¹ , G. Yielding¹ , E. Michie¹ , Q. Fisher¹ ¹ <i>University of Leeds</i> , ² <i>Badley Geoscience</i>
Constraining The Distribution Of Baffle Heterogeneities In Fluvial Sand Sheets For Improved Recovery Models: Example From The Castlegate Sandstone, Utah, USA A. Mitten¹ , J. Mullins² S. Clarke¹ J. Howelf¹ Jamie Pringle¹ ¹ <i>Keele University</i> , ² <i>University of Aberdeen</i>

Collaboration Showcase
Onshore Uk Detection Of Subsurface Geology To Metre Scale Resolution And Km Scale Depth, Without Drilling Or Seismic G. Stove¹ , D. Waters² ¹ <i>Adrok</i> , ² <i>Paetoro Consulting UK</i>
Sedimentology Of The Lower Carboniferous Breagh Gas Field (Southern North Sea) And Age-Equivalent Onshore Outcrops (Northumberland, UK) M. Booth¹ , J. Underhill¹ , A. Gardiner¹ , D. McLean² ¹ <i>Heriot-Watt University</i> , ² <i>MB Stratigraphy</i>
MagPI – A New Tool For The Determination Of Permeability In Clastic Reservoirs <i>K. Khera¹</i> , <i>N. Schandorf²</i> , I. Billing³ , A. Tugwell⁴ , D. Butler¹ ¹ <i>Weatherford UK Ltd</i> , ² <i>ENI</i> , ³ <i>University of Derby</i> , ⁴ <i>Advanced Downhole Petrophysics Ltd</i>
Quantitative Prediction Of Sandbody Connectivity Within Distributive Fluvial Systems Through Numerical Modelling S. Worms¹ , J. Howell¹ , A. Hartley¹ , A. Owen² , C. Griffiths³ ¹ <i>University of Aberdeen</i> , ² <i>University of Glasgow</i> , ³ <i>Curtin University</i>
The Optimal Lateral Length And Well Pad Size For Maximising Recoverable Reserves Of Shale Gas In Northern England S. Clancy¹ , F. Worrall¹ , R. Davies² , J. Gluyas¹ ¹ <i>University of Durham</i> , ² <i>Newcastle University</i>
Vardyquake: Measurement Of Anthropogenic Seismic Signals Produced At The King Power Stadium During Live Football Matches R. Attah¹ ¹ <i>University of Leicester</i>

Strategy & Risk
50 Years Of Production History - Key Learnings From The Collation, Characterisation & Analysis Of UK,Norwegian& Danish Oilfield Properties M. Cooper¹ , B. Duncan¹ , M. Belshaw¹ , A. Rooksby¹ ¹ <i>1st Subsurface</i>
Collaboration Between Global Service Companies And Operators To Optimize Development Strategies And Share Associated Risk <i>N. Wands¹</i> , R. Saxena¹ , S. McFadyen¹ ¹ <i>Halliburton</i>
Exploration Acreage Reload – Assessing the Opportunities <i>A. Sheppard¹</i> , K. Beadle¹ , A. Hughes¹ ¹ <i>Wood Mackenzie</i>
Exploration Automatic Facies Classification Using Support-Vector-Machine And Deep-Neural-Networks Y. Nishitsuji^{1,2} , R. Exley³ ¹ <i>Petro Summit E&P Corporation</i> , ² <i>TU Delft</i> , ³ <i>Summit Exploration and Production Limited</i>
A Review Of Thin Bedded Pay including Determination and Produceability within the Elon field, Equatorial Guinea B. Panting¹ , M. Drake² , Dr N. Scarcelli¹ , Dr D. Chiarella¹ ¹ <i>Royal Holloway, University of London</i> , ² <i>Trident Energy</i>

Mature Fields & Basins/Big Data
Diagenetic Evolution And Reservoir Characterization Of Jurassic Carbonates, Agadir-Essaouira Basin, Morocco N. Al-Sinawi¹ , A. Duval-Arnould¹ , C. Hollis¹ , G. Bertotti² , J. Redfern¹ , S. Schröder¹ ¹ <i>University of Manchester</i> , ² <i>TU Delft, Netherlands</i>
Petroleum Systems Of The Atshan-Gargaf Arch: Linking Surface And Subsurface Geology To Constrain Hydrocarbon Entrapment And Retention Histories <i>D. Boote¹</i> , F. v. Hoeflaken² , A. Dardour³ , G. Williams⁴ ¹ <i>DavidBoote Consulting Ltd</i> , ² <i>Hoeflaken Geoconsultants</i> , ³ <i>Libyan Petroleum Institute</i> , ⁴ <i>Lynx Information Systems</i>
Statistical Characterisation Of Fluvial Sand Bodies: An Example From The Permo-Triassic Central Iberian Basin, Spain M. Franzel¹ , S. Jones¹ , K. McCaffrey¹ , I. Jermyn¹ , M. Allen¹ , N. Meadows² ¹ <i>Durham University</i> , ² <i>Redrock International Limited</i>
Efficient Depth Imaging Of 2D Grids Realizes The Value Of Heritage Seismic Data For Hydrocarbon Exploration In Ultra-Deep Kwanza Basin, Angola <i>M. Yanez¹</i> , <i>M. Sanchez¹</i> , S. Tewari¹ , L. Martinez¹ ¹ <i>Schlumberger</i>
Stratigraphic Control On Oil Fields Performance In Clastic Reservoirs Of The Norwegian Continental Shelf K. Aliyuda^{1,2} , J. Howell¹ , A. Hartley¹ ¹ <i>University of Aberdeen</i> , ² <i>Gombe State University</i>

New Frontiers
Where Is The Fresh Water Coming From? Can That Lead To A New Play Concept?Where Is The Fresh Water Coming From? Can That Lead To A New Play Concept? C. F. Gyllenhammar¹ ¹ <i>CaMa GeoScience</i>
Triassic Depositional Style, Provenance and the impact on Reservoir Distribution J. Lovell-Kennedy¹ , J. Redfern¹ ¹ <i>University of Manchester</i>
Transferring Plays And Prospects Across The Atlantic Conjugate Margins Using High Resolution Plate Tectonic Reconstructions J. Teasdale¹ , T. Debacker¹ ¹ <i>Geognostics International Limited</i>
New Insights Offshore North West Africa Atlantic Margin From The Interpretation Of 2012 And Deblended 2017 Seismic Data <i>R. Masotti¹</i> , <i>F. Winter¹</i> , <i>R. Cooke¹</i> , <i>V. Tyagi¹</i> , B. Sayers¹ ¹ <i>TGS</i>
Compelling Evidence For Oil Offshore Angoche, Mozambique <i>N. Hodgson^{1,2}</i> , <i>R. MacDonald¹</i> , P. Hargreaves¹ , <i>K. Rodriguez¹</i> ¹ <i>SpectrumGEO</i> , ² <i>AAPG</i>
The Hydrocarbon Potential of the Jameson Land Basin, East Greenland - An Exciting Undrilled Atlantic Margin Province <i>J. Jacques^{1,2}</i> , M. Bilsland¹ , <i>R. Hoult²</i> ¹ <i>Greenland Gas and Oil</i> , ² <i>JMJ Petroleum</i>

Strategy & Risk/New Frontiers
Optimization Across The Value Chain By Standardized Economic And Financial Approach Based On Complex Fiscal Regimes M. A. Qaisrani¹ , S. Shahid¹ , S. Bhatti² , F. Yusuf² , M. A. Hasan² ¹ <i>Schlumberger</i> , ² <i>Pakistan Petroleum Limited</i>
Drilling And Completions Hazard Mitigation Using High-Resolution Lwd Acoustic Borehole Images S. Morris¹ , P. Basu¹ , M. Bizeray¹ , D. Boesing¹ , S. Wessling¹ , Y. Zheng¹ ¹ <i>Baker Hughes</i>
Geomechanics Stress Path Changes Induced Seismic Anisotropy: Misfit In Time-Lapse 4D Seismic Measurements H. Saleh¹ , Q. Fisher¹ ¹ <i>University of Leeds</i>
Hydrocarbon System Elements And Regional Tectonostratigraphic Models In The External Dinarides And Hellenides M. Palotai¹ , B. Toro¹ , S. Vincent¹ , B. Vautravers¹ ¹ <i>CASP</i>
Why Is Everyone Excited About The Sao Tome And Principe Eez; The 4 Key Reasons Why This Has Been One Of The Hottest Areas For Exploration In 2017 M. Tyrrell¹ , O. D'Abreu² , J. May¹ , E. Mueller¹ ¹ <i>PGS</i> , ² <i>ANP-STP</i>
Seismic Images Of The Opal A/Ct Transition As A Geo-Thermometer: Post-Rift Geotherm In Rockall Trough Strongly Modified By Pore-Fluid Convection Above Igneous Sills. M. Hoggett¹ , S. M. Jones¹ ¹ <i>University of Birmingham</i>

Recent Discoveries
Strike Slip Tectonic Controls On The East African Rift System A. Long¹ ¹ <i>Subterrene Ltd</i>
The “Turkana Grits” From Northern And Central Kenya Rift Basins: Summary Of Petrography And Reservoir Quality S. Morano¹ , J.-J. Tiercelin² , E. Hallot³ , G. Muia⁴ , J.-L. Potdevin¹ , G. Ruffet⁵ , M. Schuster⁶ , P. Thuo⁶ ¹ <i>MoranoPetrography</i> , ² <i>Univ. Rennes</i> , ³ <i>CNRS-Geosciences Rennes</i> , ⁴ <i>Geothermal Development Company</i> , ⁵ <i>Univ. de Lille, Departement des Sciences de la Terre</i> , ⁶ <i>CNRS-Univ. de Strasbourg, Institut de Physique du Globe de Strasbourg</i> , ⁶ <i>Peter Thuo</i>
Age And Paleoenvironment Of Cenomanian-Turonian Source Rocks In Moroccan Basins J. Wang¹ , J. Redfern¹ , L. Bulot¹ , K. Taylor¹ ¹ <i>The University of Manchester</i>
Hydrocarbon Prospects Offshore Lebanon A. Adepitan¹ ¹ <i>University of Derby</i>
Quantifying The Impact Of Structural Growth On The Stratigraphic Architecture Of Turbidite Reservoir Facies, Deep-Water Niger Delta M. Pizzi¹ , I. Loneragan¹ , M. Mayall¹ , A. Whittaker¹ ¹ <i>Imperial College London</i>
The Underexplored Shelf-Edge Plays Of The West Africa Transform Margin And The Opportunity To De-Risk These On Merged 3D Seismic And Well Datasets Through Togo, Benin And Western Nigeria M. Tyrrell¹ , M. Martin¹ , A. Ashfield¹ , B. Bliau² ¹ <i>PGS</i> , ² <i>SOBEH Benin</i>

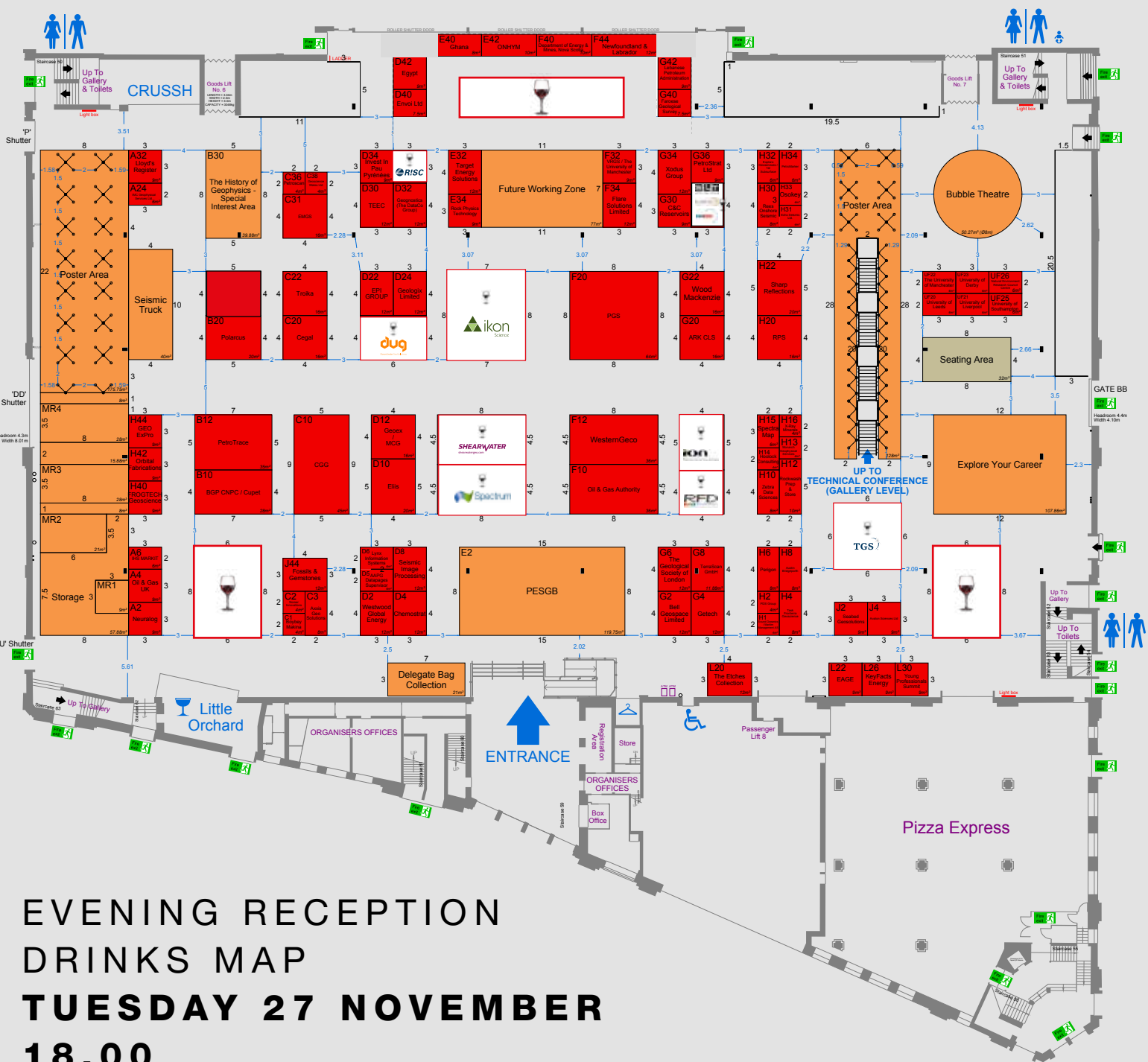
Enabling Technologies & Workflow Evolution
Using Virtual Outcrop Analogues To Give Insight And Training Throughout The Life Cycle Of A Field: Examples Of Natural Fracture Characterisation In Conventional And Unconventional Fractured Reservoirs S. Daniels¹ , J. Long¹ , R. Jones¹ ¹ <i>Geospatial Research Ltd</i>
Connecting Cloud Technology With Seismic Challenges: A Next Step In Geoscience Workflow Efficiency J. Nicholson¹ , S. Ashley² , J. Paterson² ¹ <i>Osokey Ltd.</i> , ² <i>OGTC</i>
Exploring The Predictive Power Of Seismic Geomorphology To Assess Reservoir Quality Of Deepwater Gravity-Flow Sandstones. A Step Towards Automated Interpretation Of Seismic Data? N. Scarselli¹ ¹ <i>Royal Holloway University of London</i>
Uncertainty Reduction In Bayesian Inversion Of Geophysical Data For Geological Facies Using Machine Learning M. A. Nawaz¹ , A. Curtis¹ ¹ <i>The University of Edinburgh</i>
Constrained Stochastic Inversion Using Machine Learning And High Resolution Seismic Attributes Y. Kiche^{1,3} , A. Ouenes² ¹ <i>University of Pau et des Pays de l'Adour</i> , ² <i>GO GeoEngineering</i>
Prospect Chancing with the New Artificial Intelligence, Is it For real? C. Stabell¹ ¹ <i>Decision Resources and Design</i>

Enabling Technologies & Workflow Evolution
Sedimentological Evaluation of the Kimmeridge Sandstone, Eastern Weald Basin and Northwestern France L. Angus¹ , A. Fraser¹ , G. Hampson¹ , F. Palci¹ ¹ <i>Imperial College London</i>
Using Drilling Parameters To Characterize Shale Rock Strength To Improve The Wellbore Stability Analysis A. Reyes¹ , Z. Yuan¹ ¹ <i>Schlumberger</i>
Seismic Data Collaboration: How Can We Maximize Our Seismic Data And Enable Greater Collaboration? M. Ireland¹ , R. Burrell² , P. Randell¹ ¹ <i>BP Exploration</i> , ² <i>Osokey</i>
Seismic Interference Prediction – Fundamentals And Infield Deployment R. O'Driscoll¹ , L. Sierralta¹ , S. K. Reed¹ ¹ <i>ION</i>
Triple-Source Acquisition And Processing: Case Histories From NW Europe E. Cho¹ , B. Mekala¹ , T. Travis¹ , M. Hart¹ , H. Masoomzadeh¹ ¹ <i>TGS</i>
A Field Test Of Marine Source Signature Estimation Using Dual Near-Field Hydrophones R. Telling¹ , S. Grion¹ , S. Denny¹ , G. Williams¹ ¹ <i>Shearwater Geoservices</i>

Enabling Technologies & Workflow Evolution
Evaluation Of A Stratigraphic Well Correlation Methodology Using A Semi-Automated Technique J. Withers¹ , V. Chroné² , G. Godefroy² , H. Johnson² ¹ <i>Imperial College London</i> , ² <i>Total</i>
Broadband Imaging Of Multimeasurement Seismic Data For Prospect Identification Through Interpretation And Avo Analysis: A Case Study From Offshore Mozambique A. Kanrar¹ , D. Rathee¹ , M. Francis¹ ¹ <i>WesternGeco</i>
3D Seismic Imaging Offshore Gabon: A Soft Approach For A Geologically Constrained Velocity Modelling P. Esestime¹ , H. Nicholls¹ , N. Hodgson¹ , K. Rodriguez² , B. Cox² ¹ <i>Spectrum Geo Ltd.</i> , ² <i>Monarch Geophysical Services</i>
Imaging Pitfalls Around Salt Domes From The Picanha Area, Offshore Brazil A. Pavlov¹ , J. Fruehn¹ , J. Faw¹ , H. Faw¹ ¹ <i>ION Geophysical</i>
Deeper, High-Resolution, Broadband Imaging Of Westray: The Key To Understanding Its Potential M. Steiger-Jarvis¹ , A. Furber¹ , G. Polisano¹ , K. Broadbent¹ , M. Francis¹ ¹ <i>WesternGeco</i>

Enabling Technologies & Workflow Evolution
Seismic Imaging Using Guided Wave Migration <i>R. Ferguson¹</i> , J. Deo² ¹ <i>Orthogonal Geophysics Inc.</i> , ² <i>Seismic Image Processing</i>
Velocity Model Building Over Complex Geological Regimes: A Case Study Using An Iterative Velocity Model Inversion Approach X. Jiang¹ , M. Aydin¹ , B. Virtouvet¹ , A. Lewis¹ ¹ <i>Petroleum Geo-Services</i>
Recovering Nile Delta Messinian Salt Structure Using Reconstructed Full Waveform Inversion <i>J. Fruehn¹</i> , S. Greenwood¹ , K. McDermott¹ , S. Mannick¹ , C. Wang¹ ¹ <i>ION Geophysical</i>
Full-Waveform Inversion Overcomes Imaging Challenges West Of Shetland – Imaging Clair Ridge S. Roy¹ , A. Bullock¹ ¹ <i>WesternGeco</i>
High Resolution Velocity And Impedance Estimation Using Refraction And Reflection Fwi: The Fortuna Region, Offshore Equatorial Guinea <i>I. F. Jones¹</i> , J. Singh¹ , J. Chigbo¹ , P. Cox² , C. Hawke² , D. Harger² , S. Greenwood¹ ¹ <i>ION Geophysical</i> , ² <i>Ophir Energy</i>
Deblending Of Continuous Shot Records By Sparse Inversion Of Coherent Events H. Masoomzadeh¹ , S. Baldock¹ , Z. Liu¹ ¹ <i>TGS</i>

EXHIBITOR LISTING



EVENING RECEPTION
DRINKS MAP
TUESDAY 27 NOVEMBER
18.00

AAPG Datapages Supervisor	D5	Lynx Information Systems	D6	WesternGeco	F12
ARK CLS	G20	Monarch Geophysical Services	H13	Westwood Global Energy	D2
AustinBridgeporth	H8	MultiClient Geophysical AS	D12	Wood Mackenzie	G22
Avalon Sciences Ltd	J4	Neuralog	A2	Xodus Group	G34
Axxis Geo Solutions	C3	Norsar Innovations	C2	X-Ray Mineral Services	H16
Barco	B22	Oil & Gas Authority	F10	Young Professionals Summit	L30
Bell Geospace Limited	G2	Oil & Gas UK	A4	Zebra Data Sciences	H10
BGP CNPC	B10	Orbital Fabrications Ltd	H42		
Boybey Makina	C1	Osokey	H33		
C&C Reservoirs	G30	PanTerra, ALT & Klarenco	G32	INTERNATIONAL PAVILION	
Cegal	C20	PDS	H2	Cuba (Cupet)	B10
CGG	C10	Perigon	H6	Egypt	D42
Chemostrat Ltd	D4	PESGB	E2		
DataCo Group –		PetroMarker	H34	Faroeese Geological Survey	G40
Geognostics, GeoRes & DataCo	D32	Petroscan	C36	Ghana	E40
DownUnder GeoSolutions	D20	PetroTrace Ltd	F30	Lebanon	G42
Echo Seismic Ltd	H31	PGS	F20	Morocco (ONHYM)	E42
EAGE	L22	Polarcus	B20	Newfoundland & Labrador	F44
Eliis	D10	Rees Onshore	H30	Nova Scotia	F40
EMGS	C31	RISC	D36		
Envoi Limited	D40	Rock Flow Dynamics	G10	UNIVERSITY FORUM	
EPI GROUP	D22	Rock Physics Technology	E34	NERC CDT	UF26
Exploro Geoservices / 1st Subsurface	H32	Rockwash Prep & Store	H12	University of Derby	UF23
Flare Solutions Limited	F34	RPS	H20	University of Leeds	UF20
Fossils & Gemstones	J44	Seabed Geosolutions	J2	University of Liverpool	UF21
FROGTECH GEOSCIENCE	H40	Seismic Image Processing	D8	University of Manchester	UF22
GEO ExPro	H44	Sharp Reflections	H22	University of Southampton	UF25
Geonex Ltd	D12	Shearwater GeoServices Ltd	E12		
Geological Society of London	G6	Spectra-Map	H15		
Geologix	D24	Spectrum	E10	CONSULTANTS' CORRIDOR	
Geoscience Wales	C38	Sound Oceanics LLC	H1	Analytic Signal Ltd	CC6
Getech	G4	Maritime Management AS	E32	CaMa GeoScience AS	CC1
Hoolock Consulting	H14	Target Energy Solutions	H4	Llahven Data Management	CC8
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