



Hydrocarbons in Space and Time

9 - 10 April 2019
The Geological Society

Conference Programme

Day One – 9 April	
08.30	Registration
09.00	Welcome
	Session One: Exploration Economics
09.15	Invited Speaker: Conventional Oil and Gas Exploration - 5 Trillion Barrels and Counting Andrew Latham, <i>Wood Mackenzie</i>
09.45	Invited Speaker: Geologic Variability, a Key Uncertainty in US Oil and Natural Gas Production Projections Margaret Coleman, <i>US Energy Information Administration</i>
10.15	Invited Speaker: Utilising a comprehensive E&P Database to map historical drilling developments in the Middle East region Matthew Turner, <i>IHS</i>
10.45	Discussion
11.00	Break
	Session Two: Global Patterns
11.30	Changes in the Characteristics of Plays and Petroleum Systems through Geological Time Michael Treloar, <i>Halliburton</i>
11.50	Global Basins Through Time Kirsty Campbell, <i>University of Aberdeen</i>
12.10	Why do nearly half the world's hydrocarbons overlie one basement terrane type? Jon Teasdale, <i>Geognostics</i>
12.30	Integrated data unveil the petroleum potential of the conjugate southern Atlantic Margins Jean Malan, <i>Getech</i>
12.50	Discussion
13.00	Lunch
	Session Three: Predictive Palaeoclimate
14.00	Invited Speaker: Advances in the Use of Plate Models for Regional Exploration in Shell Cees van Oosterhout, <i>Argo/Shell</i>
14.30	Climatic controls on heterogeneous source rock deposition: a micron- to global- scale investigation of the Kimmeridge Clay Formation Elisabeth Atar, <i>Durham University</i>
14.50	Invited Speaker: Unravelling carbonates through time and space Jeroen Kenter, <i>Total</i>



15.10	Discussion
15.30	Break
	Session Four: The Importance of OAEs
15.50	Invited Speaker: Comparing and quantifying the known organic carbon burial with mapped estimates for global burial within 2 OAEs <i>Jeremy Owens, Florida State University</i>
16.20	Complexity of organic enrichment during Oceanic Anoxic Events: a study of the Cretaceous Western Interior Seaway <i>Libby Robinson, University of Southampton</i>
16.40	Global, regional and local controls on lateral and vertical heterogeneity of the Eagle Ford Group mudrocks, Texas, USA <i>James Eldrett, Shell</i>
17.00	Discussion
17.10	Finish
	Wine Reception

Day Two – 10 April

08.30	Registration
08.55	Welcome
	Session Five: Organic-Rich Facies
09.00	Invited Speaker: Source Rocks in Time and Space: a Quantitative Description of Source Rock Organofacies, Expulsion Potential, Expelled Fluid Composition and Properties – with examples from some of the world's major Conventional and Unconventional Petroleum Systems <i>Andrew Pepper, This is Petroleum Systems LLC</i>
09.30	Global climate, the dawn of life and the World's oldest petroleum systems <i>Jonathan Craig, Eni</i>
09.50	A multi-proxy palaeoenvironmental analysis during deposition of the Mahogany oil shale interval <i>Amy Elson, University of Southampton</i>
10.10	Discussion
10.20	Break
	Session Six: Carbonate Systems
10.40	Invited Speaker: The stratigraphic record of the Middle-Late Jurassic transition events on the peri-Tethyan carbonate platforms <i>Raphaël Bourillot, Géoressources & Environment, ENSEGID</i>
11.10	Invited Speaker: Global stratigraphic exploration concepts for the Cretaceous <i>Frans van Buchem, Halliburton</i>
11.40	Invited Speaker: Variations in carbonate reservoir quality through time <i>Jo Garland, Cambridge Carbonates</i>



12.10	Discussion
12.20	Lunch
	Session Seven: Stratigraphic Architecture
13.00	5 Years exploring offshore Newfoundland and Labrador: Insights from Forward Stratigraphic Modelling Paul Jermannaud, <i>Beicip-Franlab HQ</i>
13.20	Stratigraphy, early diagenetic and seismic forward modelling applied to the Natih Formation carbonates in Oman Didier Granjeon, <i>IFPEN, Rueil-Malmaison</i>
13.40	Spatial and temporal prediction of shoreline-shelf depositional process regimes Daniel Collins, <i>Imperial College London</i>
14.00	Discussion
	Session Eight: Local Integration
14.10	Invited Speaker: From Abu Madi to Zohr: renaissance of hydrocarbon exploration in the Eastern Mediterranean (Nile, Levantine) and role and perspectives of Biogenic Systems Fabio Lottaroli, <i>Eni Upstream</i>
14.40	Understanding reservoir distribution in the North Sea Thomas Harris Uist, <i>Point Resources AS</i>
15.00	Break
	Session Nine: 21st Century Exploration
15.20	Invited Speaker: Advances in prediction of lithology before drilling through seismic geomorphology and seismic stratigraphy analysis Henry Posamentier, <i>Posamential Geoscience LLC</i>
15.50	Predicting hydrocarbons in time and space with artificial intelligence and modern data science practices Eirik Larsen, <i>Earth Science Analytics AS</i>
16.10	Invited Speaker: Towards One Technology-Driven Earth Science Ole Martinsen, <i>Equinor</i>
16.40	Discussion
	Finish