

Celebrating the life of Chris Cornford (1948-2017): Petroleum Systems Analysis 'Science as Art'? 24-25 April 2019 The Geological Society

CONFERENCE PROGRAMME

Wednesday 24 April		
08.30	Registration	
08.50	Welcome and Opening Remarks	
	Session 1: 'Big Data' – What's it all about?	
09.00	Keynote Speaker: The uncertain art of science in petroleum systems Dan Cornford, <i>IGI Ltd</i>	
09.40	Petroleum Families of the Barents Sea – Paint by numbers Benedikt Lerch, Aker BP ASA	
10.05	Trends and Exceptions – Remaining VIGIIant about Standard Biomarker Interpretation Gion Kuper, <i>Tullow</i>	
10.30	Break – flip chart Q&A (30 mins) in the Lower Library	
11.00	Linking UK, Norwegian and Danish North Sea petroleum systems – consistent oil family assignment and applications Daniel Stoddart, GeoEight AS	
11.25	Maturation & migration – Fundamental petroleum system processes unraveled using the high molecular weight NSO fraction Volker Ziegs, GFZ German Research Centre for Geosciences	
11.50	Posters: Source Rocks & Primary Migration Note: Presenters will be allowed a short verbal slot by their posters	
12.30	Lunch & Posters – Lower Library	
1	Session 2: Using data to inform Petroleum Systems Analysis	
13.30	Keynote Speaker: Top Down petroleum systems analysis and Geospatial Patterns of petroleum phase and properties Zhiyong He, <i>ZetaWare Inc.</i>	
14.10	A combined Geochemical and Phase Equilibrium approach to Petroleum Migration Brian Moffatt, <i>Petrophase Ltd</i>	
14.35	The Seco-oleananes: Identification, OrlGIn and Distribution in Late Cretaceous/Tertiary Deltaic Petroleum Systems Samuel Olukayode, ExxonMobil	
15.00	Break – flip chart Q&A (45 mins) in the Lower Library	
15.45	Artificial-Intelligence assisted hydrocarbon exploration: Case examples from the Norwegian Continential Shelf Daniel Austin, <i>Earth Science Analytics</i>	
16.10	Charge history of the Snefrid Nord gas and oil discovery – A collage Axel Wenke, Equinor	



16.35	Source rock from seismic (SRfS) – from rock properties to basin distribution Marita Gading, Equinor
17.00	Wine Reception with flip chart Q&A (followed by Conference Dinner at The Cavendish Hotel, St. James')

Thursday 25 April		
08.30	Registration	
08:50	Welcome	
	Session 3: Petroleum Systems Analysis – State of the Art	
09.00	Keynote Speaker: Witwatersrand Gold-Uranium Mineralisation: 'freeze-frame on an Archaean petroleum system Andy Barnicoat, <i>Geoscience Australia</i>	
09.40	Using magnetic techniques to calibrate lateral hydrocarbon migration in basin modelling: A Case Study from the Lower Tertiary, UK Central North Sea S. Adesope Badejo, Imperial College London	
10.05	Multi-disciplinary analysis of the Mesozoic succession of Maio, Cape Verde: Implications for the MSGBC petroleum systems Max Casson, North Africa Research Group (NARG), University of Manchester	
10.30	Break – flip chart Q&A (30 mins) in the Lower Library	
11.00	Calculated radioactive heat production in the North Sea: new data for petroleum systems analysis Alexander Finlay, Chemostrat	
11:25	The unconventional hydrocarbon potential of the Weald Basin, onshore UK. A 3D basin and petroleum system modelling approach Francesco Palci, Imperial College London	
11.50	Posters: New Techniques & Basin Studies/Models Note: Presenters will be allowed a short verbal slot by their posters	
12.30	Lunch & Posters – Lower Library	
	Session 4: Thermal History Reconstruction in petroleum systems analysis	
13.30	Keynote Speaker: Thermal History Data and Missing Section - The Great Uplift Debate gets into Deep Water Richard Bray, <i>Subsurface Resource Consulting</i>	
14.10	Sorry to intrude, but is it time to check-out of the 'Motel Theory' in the Faroe-Shetland Basin David Gardiner, IGI Ltd	
14.35	From regional data acquisition to exploration drilling in only one year – integrated Petroleum Systems Modelling in the Tendrara Exploration area, Eastern Morocco Jason Canning, Sound Energy	
15.00	Break – flip chart Q&A (45 mins) in the Lower Library	
15.45	Uplifted Triassic shales expose their secrets Andrew Green, IGI Ltd	



16.10	The Thermal History of the Weald Basin, southeast England Tanya Beattie, University of Southampton
16:35	Some physical considerations of the kinetic models for predicting petroleum generation in geological basins
(= 00	A. D.Carr, Advanced Geochemical Systems Ltd
17.00	Closing Remarks and depart to local hostelry

POSTER PROGRAMME

DAY ONE POSTERS

PyroViewer – a new Rock Eval data evaluation tool

Markus Doerner, University of Bergen

The Hydrological Cycle During Deposition of the Mahogany Oil Shale Interval of Eocene Lake Uinta, Green River Formation, Utah

Amy L. Elson, National Oceanography Centre Southampton

UK North Sea oils geochemistry: Interpreting newly acquired data from legacy oils Akinniyi A Akinwumiju, *Integrated Geochemical Interpretation*

Geochromatographic separation of organic tracers using a natural Draupne (Kimmeridge Clay) source rock column

Florian M. Panitz, Kiel University

A hydrocarbon biomarker study in the Cleveland Basin, North Yorkshire: implications for the end-Triassic mass extinction event

S. J. Beith, National Oceanography Centre Southampton

A geochemical analysis of Triassic source rock of the 7th member of Yanchang formation in Erdos basin, China —— the comprehensive effect in paleoclimate, biological thrive and the potential lacustrine current Xiaoxue Liuzhuang, *PetroChina*

Demineralisation Study Shows Preferential Oil Storage in Kerogens within mature Kimmeridge Clay in the North Sea

Munira Raji, Durham University

DAY TWO POSTERS

Petroleum system analysis and prospect identification using a multi-attribute volumetric approach Gaynor Paton, *GeoTeric*

Generalized Petroleum Generation History Model of the Upper Cretaceous Source Rocks in Sirt Basin, Libya

Khaled Albriki, China University of Petroleum

Hydrocarbon Generation and Migration modelling of the Barremian-Aptian Source Rock unit of the northern Orange Basin, South Africa

C. Samakinde, University of the Western Cape, Capetown

Analysis of Petroleum System in Mahu Sag of Junggar Basin, Northwest China

Jian Wang , PetroChina

Combining modelling dimensions, software and states of mind in PSA: an application to the Namibe Basin, off southern Angola

Tiago Cunha, IGI Ltd

Assessment of the Golden Zone for the Norwegian Barents Sea through estimation of net erosion and petroleum system modelling

Jesper Kresten Nielsen, MOL Norge AS