



Capturing Geoscience in Geomodels

26-27 June 2019

Robert Gordon University, Aberdeen

Provisional Programme

Day One	
	Registration
	Welcome
	Geomodelling Concepts
09.10	The Decline and Fall of Production Geology: How Geomodelling has poisoned Everything Juan Cottier, <i>MMbbls</i>
09.40	Modelling for Understanding Mark Bentley, <i>TRACS Training</i>
10.10	Honest and critical thinking: how to make approximately accurate geological models, whilst avoiding being precisely wrong Luke Johnson, <i>Cognitive</i>
10.40	Break
11.10	Multi-scenario modelling for Cambo field development planning, UK West of Shetlands Noah Jaffey, <i>Shell</i>
11.40	Rapid Reservoir Modelling: Prototyping of reservoir geoscience and development concepts using sketch-based interface and modelling M.D Jackson, <i>Imperial College London</i>
12.10	AI based property modelling calibrated by forward sediment simulation Colin Daly & Leigh Truelove, <i>Schlumberger</i>
12.40	Lunch
13.40	Geostatistics and data mining from digital outcrop models for reducing uncertainty in subsurface reservoirs David Hodgetts, <i>University of Manchester</i>
14.10	Machine Learning Methodologies Provide New Insights into the Reservoir in Seismic Interpretation Lorena Guerra, <i>Emerson Automation Solutions</i>
14.40	Modelling and Simulation of Heterogeneous and Anisotropic Reservoirs using a Fractal Approach Paul Glover, <i>University of Leeds</i>
15.10	Break
15.40	A methodology for differentiation of facies in the heterolithic Triassic of Culzean John Banks, <i>Total</i>



16.10	A hierarchical workflow conditioning facies models to well data and realistic connectivity Deirdre Walsh, <i>iCRAG</i>
16.40	Leveraging regional geology and conceptual models at the field and reservoir scale: building more reliable earth models under sparse data conditions Kate Evans, <i>Halliburton</i>
17.10	Finish
	Drinks Reception

Day Two	
	Registration
	Welcome
	Dynamic and Static Modelling
09.10	Re-developing an old oil field with a complex carbonate reservoir? A decision made on a new field model based on the integration of seismic, core, well logs, test and production data Raffalle Di Cuia, <i>Delta Energy</i>
09.40	What's inside the loop David Cox, <i>BP</i>
10.10	Petrophysical Uncertainties in Geomodels Alan Johnson, <i>IPS Petrophysics</i>
10.40	Break
11.10	Reducing uncertainty in reservoir models using structural modelling and analysis Freya Marks, <i>PETEX</i>
11.40	Uncertainty Modelling: Moving away from the 'Base Case' central tendency bias Smruti Ranjan Jena, <i>Chrysoar</i>
12.10	More than just a cracking reservoir! How modelling a highly faulted and fractured basement reservoir at high resolution can help understand fluid flow pathways and dynamic reservoir behaviour Dan Bonter, <i>Hurricane</i>
12.40	Lunch
13.40	Uncertainty: Battling our Bias Demons Greg Stone, <i>Shell</i>
14.10	A Benchmark of Sensitivity Analysis Methods to assess the Dynamic Impact of Structural and Petrophysical Uncertainties Gabriel Godfroy, <i>Total</i>
14.40	Reimagining History Matching in an Uncertainty Modelling Context Martha Stunell, <i>Resoptima</i>



15.10	Break
15.40	Lower Captain Sandstone: The Importance of Data Integration in Geocellular Modelling and History Matching Karl Charvin, <i>Chevron Upstream Europe</i>
16.10	Structural and Sedimentological controls on the performance of deeply buried aeolian gas reservoirs Sophie Behrendsen, <i>University of Aberdeen</i>
16.40	Closing remarks
	Finish

Poster Programme	
	Capturing Large Scale Conceptual Geology in the Enyenra Field Douglas Obeng, <i>Tullow Ghana Limited</i>
	Modelling for Answers, Not Comfort Ingrid Demaerschalk, <i>Tullow Oil</i>
	Assessing and communicating risk in early stage exploration: embedding regional understanding within basin modelling workflows Natasha Dowey, <i>Halliburton Landmark</i>
	Improving reservoir facies modelling with analogue databases Simon Lomas, <i>Petrotechnical Data Systems Ltd</i>
	The impact of structural and water saturation uncertainties on reservoir models Mark Verschuren, <i>Petrotechnical Data Systems Ltd</i>
	Integration of forward stratigraphic modeling with Interpreted and geostatistical data for building better predictive reservoir models Sergio Courtade, <i>Schlumberger</i>
	Quantitative Analysis of 3D Sub Surface Modelling Updates While Drilling Simon Austin, <i>Baker Hughes a GE company</i>
	New, Integrated Geology-to-Geomechanics Workflows Offer Production Risk Mitigation without Compromising Reservoir Complexity Camille Cosson, <i>Emerson Automation Solutions</i>
	Leveraging 4D Seismic into the Static Model: a Simple Approach in a Deep Water Lobe Reservoir, Paladio Field, Block 18, Offshore Angola Neila da Costa Mendes, <i>BP Angola</i>
	Integration of forward stratigraphic modeling with Interpreted and geostatistical data for building better predictive reservoir models Sergio Courtade, <i>Schlumberger</i>
	Applying Geological Process Simulation Outputs to Constrain Lithofacies Modeling in a Basinal Fan Geological Setting: An Example Daniel Otoo, <i>University of Manchester</i>
	Reproducing net:gross and amalgamation ratios in rule-based models of deep-water lobe systems Javier Lopez-Cabrera, <i>University College Dublin</i>



Increasing the Value of Virtual Outcrops for Geocellular Reservoir Modelling J.R. Mullins, <i>The University of Aberdeen</i>
Bridging the Gap between Rocks and Recoverables in Tight Gas Behrooz Bashokooh, <i>Shell</i>
Surface-based reservoir modelling: Generating realistic geological heterogeneity for reservoir modelling and simulation Carl Jacquemyn, <i>Imperial College London</i>
What's in a name? That which we call shale by any other scale we'd not... Samuel P. Graham, <i>Newcastle University</i>
Virtual Outcrop-based analysis of channel and crevasse splay sandstone body architecture in the Middle Jurassic Ravenscar Group, Yorkshire, NE England M. Mostafizur Rahman, <i>University of Aberdeen</i>
The SAFARI Project – A Database of Reservoir Analogues John Howell, <i>University of Aberdeen</i>
Building a discrete fracture network model from vintage data in old oil fields: a case from the Southern Apennine hydrocarbon province Paolo Pace, <i>GR Plan</i>
Integrated structural, sequence stratigraphic and basin modelling approach of a clastic reservoir characterization in the Sub-Andean Tarija Basin (Bolivian) Richard James, <i>Halliburton</i>
Assessing and communicating risk in early stage exploration: embedding regional understanding within basin modelling workflows Natasha Dowey, <i>Halliburton</i>
Novel 2D/3D seismic forward modelling of the seal bypass structure: an example from the Loyal field of the North Sea (Scotland, UK) Zhihua Cui, <i>University of Aberdeen</i>
Three-dimensional modelling of volcanic facies architecture; the application of virtual outcrops to aid stratigraphic interpretation and prediction Jessica H. Pugsley, <i>University of Aberdeen</i>

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