

Project Title	Supervisor	Institution	Co-supervisors	Approved
The thermal maturity, timing, geometric properties and geomechanical controls on fractures in shale multi-layers?	Dr. Clare Bond	Aberdeen	Dr David Muirhead, Prof. Rob Butler, Dr Ryan Shackleton (Uni West Virginia), Dr Graham Leslie (BGS)	Y
Oil-filled fractures in fractured basement: Towards a deeper understanding of a new hydrocarbon play West of Shetland (Lancaster Field)	Dr Alex Brasier	Aberdeen	Dr. Dave Healy, Robert Trice (Hurricane Energy)	Y
Deformation adjacent to mobile evaporite bodies – modelling approaches and outcrop examples from the Alps	Prof. Rob Butler	Aberdeen	Dr. Clare Bond, Dr. Rod Graham	Y
<i>Identification and characterisation of shallow gas prospects in the North Sea</i>	<i>David Cornwell</i>	<i>Aberdeen</i>	<i>Matteo Spagnolo, John Howell, Brice Rea</i>	<i>Y</i>
Extending the life of mature basins in the North Sea and imaging sub-basalt and sub-intrusive structures using seismic intensity monitoring	Dr. Luca De Siena	Aberdeen	Prof. Nicholas Rawlinson	Y
Unconventional sub-basalt imaging and geological interpretation in terms of porosity/permeability in buried volcanic basins	Dr. Luca De Siena	Aberdeen	Dr. Dave Healy, Dr. Nick Schofield	Y
Determining the main controls on fault-associated dolomitisation and their influence on reservoir quality distribution	Dr Enrique Gomez-Rivas	Aberdeen	Dr Joyce Neilson, Dr Juan Diego Martín-Martín (University of Barcelona)	Y
The seismic response of hydraulically-fractured, poorly-consolidated mudstone and sandstone	D. Iacopini	Aberdeen	A. Hurst, I. Lecomte (NORSTAR)	Y
Characterisation of glacial reservoirs and landsystems using sedimentology, geomorphology and virtual outcrop mapping	Brice R. Rea	Aberdeen	John Howell, Matteo Spagnolo, David Cornwell	Y
Hydrocarbon prospectivity of the inshore basins along Scotland's West Coast	Nick Schofield	Aberdeen	Prof. Adrian Hartley, Prof. John Howell, Dr. David Muirhead	Y
A micropalaeontological, sedimentological and geochemical understanding of Mesozoic cyclic sedimentation	Ian Boomer	Birmingham	Phil Wilby (BGS), Mark Woods (BGS)	Y
Phytoplankton productivity and organic matter export in a marginal seas	Tom Dunkley Jones	Birmingham	James Bendle, Andy Henderson (Newcastle University)	Y
<i>The Neogene evolution of the NE Atlantic: multi-proxy constraints on stratigraphy, palaeoclimate and palaeogeography</i>	<i>Steve Jones</i>	<i>Birmingham</i>	<i>James Bendle, Tom Dunkley Jones</i>	<i>Y</i>
Fluid flow paths through sedimentary basins: Implications for exploration in challenging geological environments	Tiago M. Alves	Cardiff	Lesley Cherns, Davide Gamboa	Y
<i>Megablocks on continental margins and their potential as reservoir units</i>	<i>Tiago M. Alves</i>	<i>Cardiff</i>	<i>Davide Gamboa</i>	<i>Y</i>
<i>Understanding hydrocarbon impacts on vegetation and detection with remote sensing</i>	<i>Prof. Mark Cutler</i>	<i>Dundee</i>	<i>Dr Glyn Bengough</i>	<i>Y</i>
Investigating the effect of noise from Oil & Gas activities on the collective behaviour of fish and marine mammals	Dr. Raluca Eftimie	Dundee	Prof. Terry Dawson	Y
Future Liability for Abandonment Failures	Prof. Colin T. Reid / Prof Andrea Ross	Dundee	Dr. Tom Dyer	Y
<i>Geomechanics in Digital Rock Analysis</i>	<i>Will Coombs</i>	<i>Durham</i>	<i>Gary Couples (Heriot Watt), Ed Llewelin</i>	<i>Y</i>
<i>Diagenetic Controls of Reservoir Quality in Carboniferous Tight Gas Sandstones</i>	<i>Jon Gluyas</i>	<i>Durham</i>	<i>Andy Aplin, Stuart Jones</i>	<i>Y</i>
Understanding the controls of fines migration in sandstones	Prof. Chris Greenwell	Durham	Dr Pablo Cubillas, Dr Nicola de Paola	Y
Fault-void fills - pervasive and persistent fluid flow pathways in fractured crystalline reservoirs.	Bob Holdsworth	Durham	Dr. Richard Walker (Leicester), Prof. Ken McCaffrey, Dr Susie Daniels (Geospatial Research Ltd)	Y
Structural geology and geomechanical significance of natural fractures in overburden successions	Jonathan Imber	Durham	Will Coombs	Y
<i>Statistical characterisation of fluvial sandbodies: implications for complex reservoir models</i>	<i>Stuart Jones</i>	<i>Durham</i>	<i>Ian Jermyn (Mathematics, Durham), Ken McCaffrey, Mark Allen</i>	<i>Y</i>
Fault zone transmissibility multipliers for CO2 storage formations	Simon Mathias	Durham	Jonathan Imber	Y
Permeability reduction due to salt precipitation in sandstone formations	Simon Mathias	Durham	Stefan Nielsen	Y
<i>Structural and Thermal Evolution of Continent-Ocean Fracture Zones</i>	<i>Jeroen van Hunen</i>	<i>Durham</i>	<i>Ken McCaffrey, Richard Davies (Newcastle)</i>	<i>Y?</i>
From the bottom to the top: identifying natural geological linkages from deep formations to the surface	Prof. Fred Worrall	Durham	Prof. Richard Davies (Newcastle), Dr Alwyn Hart (Environment Agency)	Y
An integrated remote sensing-numerical modelling approach for evaluation and optimisation of hydrocarbon reservoir performance	Prof. John Coggan	Exeter	Dr Mirko Francioni	Y

Formation-scale changes in clay mineralogy of mudrocks – unravelling the contributions of source terrains, palaeoclimate, and diagenesis	Prof. S. Hesselbo	Exeter	Kate Littler	
Untangling sediment sources of ancient muddy systems	Prof. S. Hesselbo	Exeter	Ian Bailey, Robin Shail	
Investigating Paleogene strata from Oman and the UAE; new insights from integrated chemostratigraphy, sedimentology and biostratigraphy	Dr. Kate Littler	Exeter	Prof. S. Hesselbo, Dr Aisha Al Suwaidi (Petroleum Institute, Abu Dhabi, UAE), Dr Laura Cotton (Naturalis Biodiversity Center, Netherlands)	Y
The formation and evolution of continental rift flank topography and adjacent basins: analysis of the Rukwa-Malawi sector of the East African Rift	Roderick Brown	Glasgow	Daniel Koehn, Cristina Persano, Fin Stuart (SUERC)	Y
A New Reservoir Characterisation Tool: A High Resolution Study on the Effect of Increasing Burial Depth and Temperature on the Carbonate Clumped Isotope Palaeothermometer	Dr John MacDonald	Glasgow	Dr. Daniel Koehn, Prof. Adrian Boyce (SUERC), Dr. Enrique Gomez-Rivas (University of Aberdeen)	Y
Constraining the thermal histories of the Carboniferous Midland Valley of Scotland: a potential resource for unconventional gas and shale oil?	Cristina Persano	Glasgow	Roderick Brown, Brian Bell, Finlay Stuart (SUERC); Alison Monaghan (BGS).	Y
Prediction of flow through fractures and maximising recovery under geological uncertainty and geomechanical constraints	Dr. Vasily Demyanov	Heriot-Watt	Prof. Gary Couples, Dr. Dan Arnold	Y
Modelling of geo-mechanical – hydro-mechanical coupling in fractured reservoirs	Dr. Florian Doster	Heriot-Watt	Sebastian Geiger	Y
Development of natural and sustainable bio-dispersants for the Oil & Gas industry	Dr. Tony Gutierrez	Heriot-Watt	Drs Eileen Bresnan & Alejandro Gallego (MSS); Dr. Louise O'Hara Murray (Oil & Gas UK); Profs. Ibrahim Banat and Roger Marchant (Ulster)	Y
Bots in Rocks: Intelligent Rock Deformation for Fault Rock Petrophysical Properties	Dr Helen Lewis	Heriot-Watt	David Flynn, Jim Somerville	Y
<i>Numerical Diagenesis of Reservoir Rocks</i>	<i>Dr Helen Lewis</i>	<i>Heriot-Watt</i>	<i>Jim Buckman, Zeyun Yang</i>	
Enhanced Geological Modelling of Turbidites Using Physical Models to Calibrate Erosion and Deposition Processes	Dr. Karl Stephen	Heriot-Watt	Alan Cuthbertson, Dorrik Stow	Y
Inverse anisotropy parameters of Horizontal Transverse Isotropy media using multi-component seismic data	Prof. Dorrik Stow	Heriot-Watt	Hengchang Dai (BGS), Xiang-Yang Li (BGS)	
Analysis of shale mineralogy and fabric and its induced anisotropic seismic response during hydrocarbon exploration and production	Dr. Jingsheng Ma	Heriot-Watt	Xiaoyang Wu (BGS), Dorrik Stow	Y
Evaluating the geological case for carbon dioxide gas storage capacity in depleted fields and saline aquifers	Prof. John Underhill	Heriot-Watt	Dr Rachel Jamieson	Y
Gas hydrates in permafrost sediments: Macro experiments and micro mechanisms	Dr. Jinhai Yang	Heriot-Watt	Dr. Jingsheng Ma	
Extending the life of gas reservoirs through modelling of foam assisted well unloading	Dr Pablo Brito-Parada	Imperial	Dr Stephen Neethling, Dr Daniel Pachon (BG Group)	
Rapid and Reliable Numerical Tools for Design and Control in Reservoir Engineering	Fangxin Fang	Imperial	Matthew Jackson	Y
Constraining reservoir distribution by linking stratigraphic architecture and sediment mass balance	Gary Hampson	Imperial	Alex Whittaker, Gareth Roberts	Y
Inversion of downhole self-potential measurements for real-time waterfront imaging in hydrocarbon reservoirs	Matthew Jackson	Imperial	Chris Pain, Jan Vinogradov (University of Aberdeen)	Y
Sedimentology and Thermal history of Carbonate-rich shales (Jura region, France and Switzerland): a dual approach combining fieldwork and clumped isotopes	Cedric John	Imperial	Dr. Cathy Hollis (University of Manchester)	Y
Geological life cycle inventory model development for conventional and unconventional hydrocarbon resources	Anna Korre	Imperial	Dr Zhenggang Nie, TBC (BG Group)	Y
Sediment pathways across intra-slope basins – optimal reservoir prediction and trapping potential	Lidia Lonergan	Imperial	Dr Mike Mayall, Dr Alex Whittaker	
<i>A new sub-grid scale modelling approach for reservoir simulation</i>	<i>A Muggerridge</i>	<i>Imperial</i>	<i>Chris Pain</i>	
Pore scale modelling of foam flow in porous media	Dr Stephen Neethling	Imperial	Dr Pablo Brito-Parada, Dr Paul Grassia (U. of Strathclyde)	
Quantifying the relationship between structural growth rate and the morphology of submarine channels and reservoir facies from shelf-edge to deep water	Alex Whittaker	Imperial	Lidia Lonergan, Mike Mayall	
<i>Evaporitic/Clastic interactions in arid continental environments: Implications for reservoir quality, characterisation and fluid flow</i>	<i>Stuart Clarke</i>	<i>Keele</i>	<i>Dr Anthoni Milodowski (BGS)</i>	<i>Y</i>
Structural, stratigraphic and geodynamic controls on the evolution of the Carboniferous succession of northern England and southern Scotland	Dr Stuart Egan	Keele	Dr Graham Leslie (BGS)	Y
The Permian Whitehill Formation (Karoo Basin, South Africa): deciphering the complexity and potential of an unconventional gas resource	Prof. Annette E. Götz	Keele	Dr. Stuart Clarke	Y
Sedimentary controls on secondary processes: Deformation bands in reservoirs	Dr Ian Stimpson	Keele	Dr. Oliver Wakefield (BGS)	Y
Assessing the atmospheric impacts of exploration for shale gas in the UK	Grant Allen	Manchester	Carl Percival	Y

The role of sedimentary process mix and sequence stratigraphy in prediction of reservoir quality and sealing capacity of shelf mudstones: the Magoffin Shale, central Appalachian basin, USA	Steven Flint	Manchester	Rhodri Jerrett	Y
Pore-Scale Imaging of Cross Fault Flow in High Porosity Sandstones using High Pressure-Temperature Fluid Tomography	Dr David Hodgetts	Manchester	Dr Thomas Seers	Y
Determination of basin-scale fluid flux to understand porosity distribution within mature carbonate basins	Cathy Hollis	Manchester	Greg Holland (???), Dr Hilary Corlett, Alberta Geological Survey	Y
Impact of glaciation on arctic petroleum systems: seismic geomorphology and petroleum systems modelling offshore West Greenland and West Norway	Dr Mads Huuse	Manchester	Jonathan Redfern, Wim Koue (Cairn)	Y
An Integrated Study for Optimum Designing of Low Salinity Water Composition in Sandstone Reservoirs	Dr Vahid Joekar-Niesar	Manchester	Dr. Cathy Holis (SEAES), Dr. Hassan Mahani (Shell, the Netherlands)	Y
Syn-sedimentary sliding and substrate deformation in deep-marine lobe systems	Dr Ian Kane	Manchester	Prof. Steve Flint, Dr Michal Warchol	Y
Deep-marine reservoir heterogeneity in steep-sided minibasins – influence of basin physiography on sedimentological processes and basin-fill character	Dr Ian Kane	Manchester	Dr Mads Huuse, Dr Kristina Bakke (Statoil, Bergen, Norway)	Y
Influence of lithofacies, stress state and fluid saturation on shale permeability, with implications for enhanced effectiveness of shale gas recovery	Dr. Julian Mecklenburgh	Manchester	Prof. Ernest Rutter, Dr Kate Brodie	Y
<i>Analysis of shale mineralogy and fabric and its induced anisotropic seismic response during hydrocarbon exploration and production</i>	<i>Dr Xiaoyang Wu, Dr J. Mecklenburgh</i>	<i>Manchester</i>	<i>Professor Xiang-Yang Li (BGS)</i>	<i>Y</i>
The role of asphaltenes in emulsion stabilisation formed by ocean oil spills	Dr. Geoffrey Abbott	Newcastle	Dr. Nicholas Parker	Y
Integrated characterization of high-sulphur source rock-oil systems	Dr Christian März	Newcastle	Dr Martin Jones, Prof Kevin Taylor (Manchester), Prof Tom Wagner (HWU), Dr Rob Newton, Prof Simon Poulton (Leeds)	Y
Evolution of mechanical properties of organic matter in fine grained rocks	Dr Cees van der Land	Newcastle	Mohamed Rouainia, Zeyun Jiang (HWU), Gary Couples (HWU), Tom Wagner (HWU)	Y
Novel characterization methods for pore systems of seal rocks in reservoirs used for downhole hydrogen production and storage	Sean Rigby	Nottingham / Birmingham		Y
Unlocking Natural Catalysis in Oilsands for Effective Oil Upgrading	Joe Wood	Nottingham / Birmingham	Dr Sean Rigby, Nottingham; Prof. Lynne Macaskie, Birmingham	
In-situ Upgrading of Oil Using Naturally Occurring Clay Minerals and Hydrotalcites	Joe Wood	Nottingham / Birmingham		
Tracing oil and gas reservoir contributions to shallow fluid systems	Chris Ballentine	Oxford	Dr Peter Barry	Y
The propagation and growth of polygonal faults	Joe Cartwright	Oxford	Bruce Levell	Y
Exploiting sparse structures in seismic modelling and inversion	Tarje Nissen-Meyer	Oxford	Karin Sigloch	Y
Calcite-Aragonite Seas and porosity prediction: A New Approach	Rosalind Rickaby	Oxford	Hugh Jenkyns, Andy Gale (University of Portsmouth)	Y
Palaeoenvironmental controls on the deposition and development of organic-rich sediments in the North Atlantic: insights into deep-water source rocks?	Stuart Robinson	Oxford	Prof. G. Henderson, Prof. H. Jenkyns, Dr A. Dickson, Dr M. Ruhl	Y
Authigenic mineral corrosion and the origins of secondary porosity in lacustrine carbonate reservoirs: An experimental approach	Nicholas Tosca	Oxford	Prof V. Paul Wright (PW Carbonate Geoscience & National Museum of Wales)	Y
New methods for forecasting the permeability of fractured reservoirs	Agust Gudmundsson	Royal Holloway	Saswata Hier-Majumde	Y
Numerical modelling of reactive multiphase flow in low-porosity reservoirs	Saswata Hier-Majumde	Royal Holloway	Agust Gudmundsson	RHUL withdrew in favour of Agust's above
Methane emissions from the UK gas industry	Dave Lowry	Royal Holloway	Prof. E.G. Nisbet	Y
Characterising the permeability and structure of onshore and offshore chimney structures - relevance to Carbon Capture and Storage	John Bull	Southampton	Tom Gernon, Angus Best (NOC)	Y
Clastic Shelf Plays, Reservoirs and Seals: New insights through the correlation of high resolution seismic imaging of Quaternary and terrestrial analogues	Justin Dix	Southampton	Esther Sumner	Y
Bayesian analysis of marine controlled source electromagnetic data for a laterally-variable subsurface	Dr. Romina Gehrmann	Southampton	Tim Minshull, Prof. Stan E. Dosso (University of Victoria, Canada)	Y
Active fault kinematics during non-volcanic rifting in East Africa	Dr. Derek Keir	Southampton	Prof. Johnathan Bull	Y
Crustal and sedimentary structure of the Eastern Black Sea Basin from long-offset seismic reflection data	Prof. Tim Minshull	Southampton	Dr H. Marin-Moreno (NOC)	
Reconstructing the ocean floor shape in turbidite basins using seismic interpretation, forward modelling, and outcrop analogues	Dr. Frank Peel (NOC)	Southampton	Esther Sumner (UoS), Gillian Apps (NOCS), David Stanbrook (Murphy Oil), Doug Paton (Leeds)	Y
<i>Full Waveform Inversion of the Atlantic Seafloor from 0-80 My</i>	<i>Catherine Rychert</i>	<i>Southampton</i>	<i>Dr. Nicholas Harmon</i>	

Subsea impact assessment using active and passive acoustic inversion methods	Mark Vardy (NOC)	Southampton	Mike Clare (NOC), Matthieu Cartigny (NOC), Mohammed Belal (Physics Dept., UoS), Matthew Himsworth (Physics Dept UoS)	Y
Unconventionals of Green River Formation Oil Shales	Dr Jessica Whiteside	Southampton	Prof. John Marshall	
Triggering of giant submarine landslides and implications for hydrocarbon structures	Antonis Zervos	Southampton	Michael Clare, Mark Vardy (NOC)	Y
How likely is beyond-design-basis earthquake shaking for UK oil and gas installations?	John Douglas	Strathclyde	Zoe Shipton	Y
Crystal growth in pores: creating and controlling fracture	Dr Andrea Hamilton	Strathclyde	Prof. Alessandro Tarantino, Prof. Daniele Zonta	Y
Assessment of potential NORM sources in UK Unconventional Gas Resources	Dr J C Renshaw	Strathclyde	Prof Martin Lee, Dr Christine Davidson	Y
<i>What happens inside a frack? Particle-laden fluid transport in fracture networks</i>	<i>Zoe Shipton</i>	<i>Strathclyde</i>	<i>Mark Haw (Chemical & Process Engineering)</i>	<i>Y</i>

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