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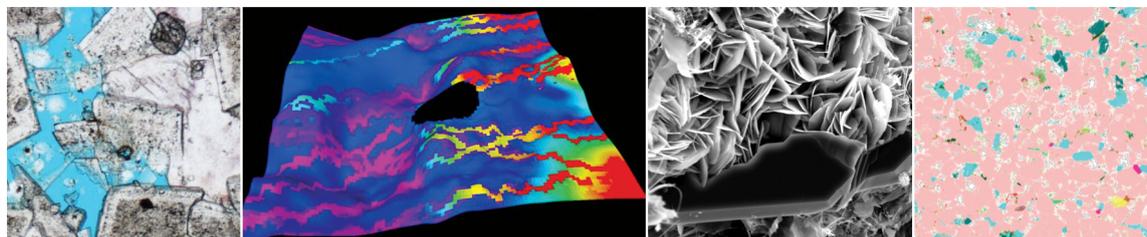
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# Reservoir Quality of Clastic and Carbonate Rocks: *Analysis, Modelling and Prediction* 28-30 May, 2014

The Geological Society, Burlington House, Piccadilly, London



Porosity and permeability exert a fundamental control on the economic feasibility of a petroleum accumulation and need to be quantified from basin access to mature production. Quantitatively reporting the mineralogy and pore space characteristics of reservoir rocks is vital in establishing the controls on reservoir quality. Only by doing so it is possible to build predictive capability, essential to successful geological modelling and cross-disciplinary integration. This issue is becoming ever more critical with exploration and production of petroleum in increasingly challenging conditions and from less conventional reservoirs.

Despite the importance to the industry of understanding the controls on porosity and permeability of reservoirs, fundamental issues lack consensus. Reservoir quality is controlled by interdependent sedimentary and diagenetic factors, including sediment provenance and weathering, depositional environment and climate, compaction, recrystallisation and dissolution, authigenic mineral growth, petroleum charge and structural deformation.

This conference seeks to address the factors and processes controlling rock properties of clastic and carbonate rocks as well as showcase novel analytical techniques and demonstrate diagenetic modelling capability. Delegates from both academic institutions and industry are encouraged to attend and contribute in order to represent the range of current reservoir quality research.

### Themes

- Provenance and environment of deposition
- RQ in the sequence stratigraphic framework
- Clay mineral diagenesis in clastic and carbonate rocks
- Quartz diagenesis in clastic rocks
- Carbonate diagenesis in clastic rocks
- Near surface diagenesis as a control on reservoir quality in carbonate systems
- Porosity modification in the burial realm
- Fluid-rock interactions
- Petrophysical RQ characterisation and upscaling
- Application of RQ analysis for petroleum exploration and production
- Porosity upsides – predicting anomalously good reservoirs
- RQ of unconventional reservoirs
- Computer modelling of diagenesis
- Experimental approaches to understanding RQ
- Analytical techniques
- Geomechanical and structural controls
- Using RQ to improve rock physics models
- Modern environment, outcrop and subsurface analogues

### Student Attendance Grants

There are a limited number of student attendance grants funded by ConocoPhillips available. Please visit the conference webpage [www.geolsoc.org.uk/Reservoir-Quality-Conference](http://www.geolsoc.org.uk/Reservoir-Quality-Conference) before 1 March 2014 to download the application form.

For further information please contact:

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