PROGRAMME

Day One	
10.00	**Registration**
10.25	**Welcome**
	Session One: Imaging
10.30	**Keynote: Joanne Fredrich (BP)** **Image-Based Modeling & Simulation: Applications in Reservoir Charaterization and Performance Prediction**
11.00	**Jenny Omma (Rocktype Ltd)** Introducing Big Data Petrography: QEMSCAN based rock characterisation
11.20	**J. Buckman (Heriot Watt University)** Workflow model for the digitization of shale rocks
11.40	**Break**
12.00	**Matthew Andrew (Carl Zeiss X –ray Miscroscopy)** Solving petroleum problems using the frontiers of imaging technology: Multiscale, correlative and in situ techniques
12.20	**Andrew Fogden (FEI)** 3D micro-CT imaging of the pore-scale distribution of oil, brine and air in place in reservoir shales and in sandstones after low salinity flooding, and relations to local mineralogy
12.40	**Mark Osborne (BP)** Understanding variations in reservoir porosity in the Eagle Ford shale using scanning electron microscopy- Implications for basin modelling
13.00	**Lunch**
	Session Two: Isotopes
14.00	**Keynote: Cédric M. John (Imperial College London)** **Applications of clumped isotopes to the petroleum industry: a critical review**
14.30	**Richard H Worden (University of Liverpool)** Compound specific sulfur isotopic analysis of organosulfur compounds to help reveal genetic links between the Lower Paleozoic oil fields from the Tarim Basin, NW China
14.50	**Andrew C. Aplin (Durham University)** Unravelling quartz, calcite and dolomite cementation histories in sandstones with in situ microanalysis of oxygen isotopes
15.10	**Luca Mascheroni (Geolog Srl)** Real time carbon isotopes analysis
15.30	**Break**
16.00	**Junjie Liu (Durham University)** Constraining the timing of oil generation and oil-source fingerprinting via the rhenium-osmium isotope system: Implications from the Duvernay Petroleum System, Western Canada Sedimentary Basin
16.20	**P. C. Smalley** Constraining Carbonate Cementation in Clastic Reservoirs Using Clumped Isotopes: A case study from the Bruce Field, UK North Sea

16.40	**R. Honlet (KU Leuven)** A novel approach to geobarometry by combining fluid inclusion (Th) and clumped isotope (Δ47) paleothermometry in hydrothermal dolomite (Cantabrian Zone, Northern Spain).
17.00	**Claire M. Veillard (Imperial College London)** Combining two novel methods for reservoir characterization: what can clumped isotope geochemistry and micro-CT imaging reveal about early dolomitization?
17.20	**Finish**
17.20	**Wine Reception**

Day Two	
08.30	**Registration**
	Session Three: Applications/Case Studies
09.00	**Keynote: Brian Horsfield (Potsdam)** **Using pyrolysis techniques and high resolution mass spectrometry (FT-ICR MS) to evaluate the impact of fluid retention on bulk petroleum properties in shale**
09.30	**Nicolas Ville (BP)** Implementation of advanced analytical technics at the wellsite: learnings from surface data acquisition, benefits and pitfalls
09.50	**Scott Brindle (CGG)** Application of automated mineralogical and textural data to rock physics models: A novel approach for generating wireline-equivalent elastic and mechanical properties from core and drill cuttings.
10.10	**Gavin Hunt (Spectra-Map Ltd)** The application of imaging IR spectroscopy for mineralogical analysis of core and cuttings
10.30	**Break**
10.50	**Keynote: Pim van Bergen (Shell)** **Production Geochemistry – Fluids don't lie and the devil is in the detail**
11.20	**D. Misch (Montanuniversitaet Leoben)** Source rock assessment from basin- to nano-scale: A case study from the Ukrainian Dniepr-Donets Basin
11.50	**Claudio Delle Piane (CSIRO)** A multi-disciplinary approach to the evaluation of thermal alteration of mineral and organic components of the Marcellus Shale. Analytical results and implications for transport properties.
12.10	**Richard Kempton (CSIRO)** Using fluid inclusions to trace petroleum systems – a integrated case study of oil and gas migration in the Bight Basin to constrain source, composition and timing.
12.30	**Lunch**
	Session Four:Geochemistry at Varying scales
13.30	**Keynote: Clifford Walters (ExxonMobil)** **Organic geochemistry at millimeter to Ångstrom resolution**
14.00	**Herbert Volk (BP)** Using petroleum inclusions to trace petroleum systems – a review

14.20	**Stuart Jones (Durham University)** Chlorite, chlorite everywhere but not an understanding on why it controls porosity? An HPHT experimental study of sandstone reservoir quality.
14.40	**Patrick Whitelaw (BGS)** Convergence of shale gas reserve estimates from a high pressure water pyrolysis procedure and gas adsorption measurements
15.00	**Break**
15.30	**M. Barbarano (Chemstrat)** Raman Heavy Mineral Analysis for understanding sediment provenance and reservoir heterogeneities in fluvial successions and optimising hydrocarbons production.
16.00	**Andrea Schito (Università degli Studi Roma Tre)** Raman spectroscopy: a new tool for the analysis of thermal evolution of amorphous organic matter rich kerogen in diagenesis
16.20	**Mohinudeen Faiz (Origin Energy)** Gas isotope fractionation in source rocks and implications for petroleum exploration
16.40	**Will Meredith (University of Nottingham)** Origin of solid bitumen in the Elgin/Franklin complex of the Central Graben
17.00	**Finish**

Poster Programme Day 1

Patrick J. Dowey (University of Manchester) Multi-scale 3D quantification of an organic-rich mudstone, the Carboniferous Bowland Shale
John Ford (CGG) Reservoir quality assessment using automated mineralogical techniques: Quantification of authigenic kaolinite and its relationship with pore networks.
Joyce Schmatz (MaP - Microstructure and Pores GmbH) Multiscale visualization of fluid-fluid-mineral interfaces and pore connectivity using Cryo-BIB-SEM and Liquid Metal Injection: A case study on re-saturated North Alpine Foreland Basin sandstone.
Arjen Mascini (Thermo Fisher Scientific) Multiscale characterization of North Sea chalk samples using micro X-ray computedtomography and focused-ion beam scanning electron microscopy.
Richard H Worden (University of Liverpool) Improved Imaging and Analysis of Chlorite in Reservoirs and Modern Day Analogues: New Insights for Reservoir Quality
Duncan Pirrie (Helford Geoscience LLP) Automated mineral analysis; lithological, petrographic and diagenetic evaluation of well cuttings
Alex Finlay (Chemostrat) Oil generation West of Shetlands: Insights from Re-Os geochronology
David Selby (Durham University) Constraining the timing of oil and gas generation: Insights from Re-Os geochronology and Apatite Fission Track analysis in the Neoproterozoic-Palaeozoic reservoirs, South China Block

Zeyang Liu (Durham University) Investigation into the Controls of Rhenium-Osmium Fractionation in Organic- Rich Sedimentary Rocks: Implications for Re-Os Geochronology
Maria Gusarevich (Imperial College) Thermal history of Resolution Guyot using paired clumped isotopes and radiogenic isotopes in Cretaceous carbonates
Randall R Parrish (University of Portsmouth) How in situ U-Pb carbonate dating can improve the understanding of diagenesis and the deformation of carbonate rocks in basins, fold belts and fault zones.
Ruth Davey (Imperial College) Shale Gas: Deciphering the Isotopic Code

Poster Programme Day 2

Julien Bourdet (CSIRO) Gas, salinity and temperature evolution of formation water in gas-rich basins
D. K. Muirhead (University of Aberdeen) Making oil from Magma
Glenn T. Morrall (University of Liverpool) A Multidisciplinary Re-assessment of Calcite Cement in Brent Reservoirs, Heather Field, Northern North Sea
Neil S Meadows (Redrock Associates International Limited) Climatically and tectonically mediated fluvial architecture, Central Iberian Basin, NE Spain: application of chemostratigraphy for reservoir modelling.
Alessandro Pozzi (Geolog) While Drilling Chemostratigraphy – Contribution to Reservoir Modelling with Well-site. Applications: Reservoir Zonation, Fractures Detection and Geosteering
Michael J. Flowerdew (CASP) Dates through the ages: mineral fertility and bias in sedimentary provenance studies and some examples of how these may be identified and reduced.
Adrian Neal (Badley Ashton and Associates Ltd) Detailed characterisation of deepwater reservoir heterogeneity using automated core mapping tools.
T. Morgan (Chemostrat) Zircon geochronology, improving the understanding of the provenance of the Upper Carboniferous/Lower Permian sandstones in the SNS
Nipada Santha (Durham University) CFM study of brine effect on adhesion of silica face kaolinite
D. Grossa (Montanuniversitaet Leoben) Maturity and facies effects on the abundance of acidic compounds in Upper Visean black shales from the Dniepr-Donets Basin (Ukraine): Source rock characterization via electrospray ionization fourier transform ion cyclotron resonance mass spectrometry (ESI FT-ICR-MS)

Marianne Nuzzo (Integrated Geochemical Interpretation Ltd) Hydrocarbon and noble gas geochemical survey in a mud volcano province: Insights into oil-water-gas interactions and gas hydrate occurrences in the subsurface
Markus Doerner (University of Bergen) OG analytical methods in the Petroleum industry - Enhanced data density and method flexibility by multiple detector GC coupling