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# Petroleum Geoscience Research Collaboration Showcase

19-20 November 2014

## POSTER PROGRAMME

<b>Poster Session 1: Reservoir Modelling and Exploration Geoscience</b>
<b>Quantitative Characterisation, Analysis and Modelling of a Mixed-load Fluvial System: A Case Study of the Huesca Fluvial Fan.</b> <i>Brian S. Burnham, David Hodgetts, University of Manchester</i>
<b>Interaction between Axial Delta System and Lateral Fans in a Barremian-Aptian Lacustrine Setting, North Falkland Basin: Impact on Reservoir Properties</b> <i>Tom Kenison, Premier Oil</i>
<b>Paleoenvironmental Interpretation of Deposits of Resende Formation in the Taubaté Basin at Jacareí, São Paulo.</b> <i>Luiz Felipe de Queiroz Ferreira Braga, Artur Iró Rodrigues, Lucas Gabriel Silva de Aguiar, Thiago Roulien Pires Fagundes, Renato Rodriguez Cabral Ramos, Federal University of Rio de Janeiro (UFRJ).</i>
<b>Integrated Analysis of Block 24 in the Benguela Basin, Offshore Angola: Implications for Prospectivity and Fluid Flow</b> <i>David Cox<sup>1,2</sup> and Mads Huuse<sup>1</sup></i> <i><sup>1</sup>University of Manchester, <sup>2</sup>Schlumberger UK</i>
<b>The Geological Characterization and Permeability Measurements of Surface and Subsurface Fractures in a Crystalline Reservoir: The Southern Negros Geothermal Field Negros Oriental, Philippines</b> <i>Loraine R. Pastoriza<sup>1,2</sup>, Robert E. Holdsworth<sup>1</sup>, Ken J. W. McCaffrey<sup>1</sup>, Jon G. Gluyas<sup>1</sup>, Mario A. Aurelio<sup>3</sup>, Richard J. Walker<sup>4</sup></i> <i><sup>1</sup>Durham University, <sup>2</sup>Energy Development Corporation, <sup>3</sup>University of the Philippines, <sup>4</sup>University of Leicester</i>
<b>Evaluation of Fractured Basement Plays In Ukcs: Characterisation of Existing Opportunities and Future Potential</b> <i>Faye Walker, Imperial College London</i>
<b>Predicting Overpressure and Drilling Hazards of Intra Zechstein Plattendolomit Structures</b> <i>Luke Davies, University of Leeds</i>
<b>Assessing Risk and Uncertainty Associated With Volcanic Lithofacies in the Subsurface Using Borehole Images and Well Data: Examples from the Faroe-Shetland Basin</b> <i>Bansri Raithatha, Durham University</i>
<b>Comparing Vitrinite Reflectance and Micro-Raman Spectroscopy Indexes to Assess Thermal Maturity of Organic Matter Dispersed In Sediments: A Case History from the South Atlantic Passive Margin</b> <i>Andrea Schito<sup>1</sup>, Sveva Corrado<sup>1</sup>, Claudia Romano<sup>1</sup> and Domenico Grigo<sup>2</sup></i> <i><sup>1</sup>Università degli Studi di Roma Tre, <sup>2</sup>ENI</i>

<b>Poster Session 2: Reservoir Production</b>
<b>Utilising SWAG/WAG as a Technique for Gas Disposal while Enhancing Oil Recovery</b> <i>Sam Cockwell, Premier Oil</i>
<b>Carbonate Waterflood EOR: Can Seawater Improve Recovery Through a Favorable Wettability Alteration?</b> <i>Lowden, University of Manchester</i>
<b>CO<sub>2</sub> Sequestration: The Risk of Leakage</b> <i>Bleddyn Davies<sup>1</sup>, Joe Cartwright<sup>2</sup></i> <i><sup>1</sup>Cardiff University and Robertson CGG, <sup>2</sup>Oxford University</i>
<b>Investigation of the Remaining Potential in the North East Flank Area of the Britannia Field, UKCS</b> <i>Rebecca Lee, Imperial College London</i>
<b>Poster Session 3: Unconventional</b>
<b>Sills as Fractured Hydrocarbon Reservoirs: Numerical and Analytical Results</b> <i>Z. Barnett, A. Gudmundsson, Royal Holloway University of London</i>
<b>Application of Kerogen Kinetics to the Bowland and Holywell Shales – An Additional Resource for the Understanding of Shale Gas Prospectivity</b> <i>Ellis Elliott<sup>1</sup>, James Armstrong<sup>2</sup>, Martin Whiteley<sup>1</sup></i> <i><sup>1</sup>University of Derby, <sup>2</sup>Petroleum Systems Limited</i>
<b>Modelling of Bowland / Holywell Shale in Northern Cheshire, England - Understanding the Effects that Thermal History Places on Shale Gas Prospectivity.</b> <i>Alex Hughes<sup>1</sup>, James Armstrong<sup>2</sup></i> <i><sup>1</sup>University of Manchester, <sup>2</sup>Petroleum Systems Limited</i>
<b>Unconventional Hydrocarbon Potential of Carboniferous Shale Units in the North German Basin – New Insights from Optical Kerogen Analysis</b> <i>Jäger, Heidelberg University</i>
<b>Session 4: Structural Geology</b>
<b>Normal Fault Population Characteristics and their Relationship to Basement Heterogeneities: A Case Study from Offshore Mid-Norway</b> <i>Lenhart et al., Imperial College London</i>
<b>Reactivation of Ancient Thrust Belts: Implications for the Geometry and Evolution of Sedimentary Basins</b> <i>Phillips et al., Imperial College London</i>
<b>4D Transfer Zone Modeling of Continental Rift Systems</b> <i>Frank Zwaan, Guido Schreurs, University of Bern, Switzerland</i>
<b>Orthogonal Fracture Formation in Foreland Basins: Implications from Field Study and Numerical Calculations in the South Wales Coalfield</b> <i>Tetsuzo Fukunari<sup>1,2</sup> and Agust Gudmundsson<sup>1</sup></i> <i><sup>1</sup>Royal Holloway University of London, <sup>2</sup>Japan Oil</i>
<b>Investigating the 3D Geometry of Igneous Bodies in Rift Basins</b> <i>Suleiman et al., Imperial College London</i>
<b>Structural Evolution of the Farsund Basin, Offshore Southern Norway; Implications for Hydrocarbon Systems</b> <i>James Norcliffe, University of Leeds</i>