

PROGRAMME

CONFERENCE PROGRAMME

Day One	
08.30	Registration
09.00	Welcome
Session One: Value, Classification, Processes	
09.05	Keynote: Strategies and Challenges in Fault Seal Russel Davies, <i>RDR/Schlum</i>
09.45	Invited Speaker: Fault Seal analysis techniques and current industry problems Scott Wilkins, <i>Anadarko</i>
10.15	New insights into fault rock forming processes & exceptions to commonly applied fault seal methodology Robert Worthington, <i>Statoil</i>
10.35	Break
11.00	Invited Speaker: Fault Fictions: how do mental models of faults condition the utility of predictions? Zoe Shipton, <i>University of Strathclyde</i>
11.30	Revisiting fault geometry and architecture Anita Torabi, <i>Uni Research CIPR, Bergen, Norway</i>
11.50	3D Characterisation of microstructures & porosity in damage zones of siliclastic rocks Hannah Riegel, <i>Univ Camerino</i>
12.10	Efficient Handling of fault properties using the juxtaposition table method Tors Anders Knai, <i>Statoil</i>
12.30	Lunch
Session Two: Carbonates	
13.30	Invited Speaker: Predicting sealing/baffling in faulted carbonates John Solum, <i>Shell</i>
14.00	Impact of Faults on Fluid Flow in Carbonates Emma Michie, <i>Badleys</i>
14.20	Architecture & Permeability of fault zones in tight carbonates Antonino Cilona, <i>Shell</i>
14.40	Break
Session Three: Lab & Geomechanics 1	
15.10	Keynote: Geomechanics & Microstructure of Faults: an experimental perspective David Dewhurst, <i>CSIRO</i>
15.40	Recent advances in lab measurements of flow properties of fault rocks Quentin Fisher, <i>University of Leeds</i>
16.00	Pore-Scale Imaging of Cross Fault Flow in High Porosity Sandstones using High pressure-T Fluid Tomography Thomas Seers, <i>Texas A&M</i>
16.20	Variation of uniaxial compressive strength in different architectural elements of fault zones. Cayo César Cortez Pontes, <i>University of Campino</i>
16.40	Finish Wine Reception

Day Two	
08.30	Registration
Session Four: Lab & Geomechanics 2	
09.00	Invited Speaker: Fault permeability evolution with clay smears in hybrid failure – insights from analogue models and flow simulations <i>Michael Ketterman, RWTH Aachen University</i>
09.30	Comparative influence of normal and shear stresses on the hydraulic conductivity of thin cracks in a tight quartz sandstone, a granite and a shale <i>Ernest Rutter, University of Manchester</i>
09.50	Methodology for improved prediction of fault properties using data from the CO2CRC Otway CCS Project <i>Eric Tenthorey, CO2/GRC Geosc Aus</i>
10.10	Adding probability to the prediction of fracture stability by quantifying the influence of in-situ stress, cohesion & friction angle <i>Sarah Weihmann, University of Aberdeen</i>
10.40	Break
Session Five: Integrated Outcrop 1	
11.00	Keynote: Internal Structure of fault zones and its impact on fault seal <i>Conrad Childs, UCD</i>
11.30	Evaluating & improving fault seal workflows using outcrop analogues <i>Yannick Kremmer, University of Strathclyde</i>
11.50	Implications of cataclasis for fluid flow across normal faults in a weakly lithified multilayer <i>Andy Nichol, University of Canterbury</i>
12.10	Lunch
Session Six: Integrated Outcrop 2	
13.10	Invited Speaker: Fault Zone Deformation & Fluid History in mechanically layered mudstone & chalk <i>David Ferrill, SRI San Antonio</i>
13.40	3D Anatomy of a composite shale smear: along strike variations of fault zone architecture & deformation mechanisms of normal faults in poorly lithified sediments (Miri, Malaysia) <i>Silvia Sosio de Rosa, University of Strathclyde</i>
14.00	Fault injectites: Implications for fluid flow along and across faults <i>Dave Healy, University of Aberdeen</i>
14.20	Shale Smear Continuity in a poorly lithified turbidite; implications for fault seal potential <i>Gabrielle Watson, University of Canterbury</i>
14.40	Break
Session Seven: Modelling	
15.20	Reservoir modelling strategies for intra-reservoir faulting <i>Simon Oldfield, University of Leeds</i>
15.40	Stochastic Modelling of Fault Zone Permeability: Implications for Seal Analysis <i>Neil Grant, Conoco Phillips</i>
16.00	Representation of small-scale fault displacement partitioning in reservoir modelling <i>T. Manzocchi, UCD</i>
16.20	The Impact of deformation bands in fault zones on permeability; an upscaling approach <i>Hayley Vosper, BGS</i>
16.40	Discussion
17.15	Finish Wine Reception

Day Three	
08.30	Registration
Session Eight: Exploration & Production 1	
09.00	Keynote: Stochastic Trap analysis comparison of juxtaposition & SGR algorithms. A global Review Titus Murray, <i>Fault Seal Ltd</i>
09.30	Using Trap Analysis to derive prospect-fill scenarios in fault-bounded traps: A Case Study from the Southern North Sea Pete Bretan, <i>Badleys</i>
09.50	The Application of existing fault-seal algorithms to fields in the greater Baram Delta, NW Borneo Arjan Brem, <i>Shell</i>
10.10	Modelling Shale Smear and its inclusion in Fault Seal Analysis Neil Grant, <i>Conoco Phillips</i>
10.30	Break
Session Nine: Exploration & Production 2	
11.05	Invited Speaker: Smears, holes, SGR, and fault seal prediction Graham Yielding, <i>Badleys</i>
11.35	Application of temporal fault seal analysis Cathal Reilly, <i>Midland Valley</i>
11.55	Evaluating risk of depletion of an Exploration Prospect from a neighbouring field and its impact on potential future drilling Kamanasish Dutta, <i>DONG Energy</i>
12.15	Lunch
Session Ten: Exploration & Production 3	
13.15	Keynote: A decade of progress and regress in flow simulation of faulted reservoirs Steve Davis, <i>ExxonMobil</i>
13.45	Permeability of faults in shale rich sequences: evaluating the risk of upwards leaking along faults of fracking fluids Yannick Kremmer, <i>University of Strathclyde</i>
14.05	High Resolution Borehole-Imaging of Faults Architecture and Scaling in Carbonate and Siliciclastic Shales, Saudi Arabia Mohammed Ameen, <i>Aramco</i>
14.25	Data sampling and the accuracy of fault models based on T/D and T/Z data Tiago Alves, <i>University of Cardiff</i>
14.45	Discussion
15.05	Closing Remarks
15.40	End of conference

POSTER PROGRAMME

<p>Predicting properties of faults in sand-shale sequences: case studies from the Rotliegend, Dutch Southern North Sea area A. Silvius, <i>EBN</i></p>
<p>Quantifying the effect of core plug edge effects on porosity and permeability under uniaxial and triaxial loading conditions Sophie Harland, <i>University of Aberdeen</i></p>
<p>Variations in porosity values by gas permeoporosimeter and digital methods in rocks affected by deformation bands. Cayo César Cortez Pontes, <i>Federal University of Campina Grande</i></p>
<p>Exploring the influence of fracture pattern attributes on fluid flow in a fractured reservoir analogue Dave Healy, <i>University of Aberdeen</i></p>
<p>Anisotropic pore fabrics in faulted porous sandstones Natalie Farrel, <i>University of Aberdeen</i></p>