

NERC ESRC Unconventional Hydrocarbons in the UK Energy System

Annual Conference, 17-18 Sept

BGS, Keyworth

#UKUH2019

Day 1: Tuesday 17 September

10.00	Arrival and Registration, Coffee
10.50 – 11.00	Welcome and opening remarks Claire Spooner, ESRC
11.00	Session 1: Subsurface characterisation in unconventional hydrocarbon systems Chair: Mike Williams (Schlumberger)
	<p>Speakers:</p> <p>Michael Sims (Imperial College London) - From the core scale to the basin scale, applying Rock-Eval results to petroleum system models in the search for Lower Carboniferous sweet spots</p> <p>Robin Thomas (Imperial College London) – Interaction between hydraulic fracturing and pre-existing fracture networks</p> <p>Jingsheng Ma (Heriot Watt) – Gas transport in confined pore systems</p> <p>Ernest Rutter (Manchester University) - Laboratory evaluation of key influences on the transport of gas through the porous matrix of shales.</p>
11.40	Questions and answers ‘Uncertainty in subsurface models’
12.00	Session 2: From subsurface to atmosphere: flow, migration and emissions of contaminants Chair: Sian Loveless (Environment Agency)
	<p>Speakers:</p> <p>Mike Kendall (Bristol University) – Leakage through the overburden</p> <p>Andrew Fraser-Harris (University of Edinburgh) – A methodology for integrated risk assessment of groundwater contamination, seismicity, and air pollution from hydraulic fracturing operations.</p> <p>Jacob Shaw (University of Manchester) – Fugitive emissions</p> <p>Laurence Stamford (University of Manchester) - Climate change, environmental impacts and the life cycle of unconventional gas</p>

12.40	Questions and answers
13.00	Lunch break and posters
14.00	Session 3: Environmental and Social Considerations Chair: Mindy Dulai (Royal Society of Chemistry)
	<p>Speakers:</p> <p>Gemma Cremen (University of Bristol) – implications of induced seismicity on nearby local populations</p> <p>Patrick Devine-Wright (Exeter University) - Understanding public attitudes towards shale gas-related seismicity and the ‘traffic light system’ of regulation</p> <p>Anna Szolucha (Northumbria University) - Not just public perception: How unconventional resource development impacts on local communities in Lancashire and Cheshire</p> <p>Abigail Martin (University of Sussex) - Perceptions of Shale Gas Development and Governance from Host Communities and the UK Public</p>
15.15	Questions and answers
15.40	Coffee break and posters
16.15	<p>An introduction to shale basin geology in the UK</p> <p>Core workshop 1 – Widmerpool M Sims, J Hennissen, (Carsington Dam, Rempstone, Duffield) [Blue group]</p> <p>Core workshop 2 - Bowland Basin, E Hough (Grange Hill / Beconsall, Gronant, Fletcher Bank, Preese Hall) [Green group]</p> <p>Core workshop 3 - Cleveland Basin, B Lodhia, K Blacker, (Kirby Misperton 8, Malton 4, Whitwell on the Hill, Karenight-1) [Orange group]</p> <p>Core workshop 4 – Ellesmere Port, E Hough [Red group]</p>
17.00	Drinks reception
17.00	PAB meeting (C1 and stakeholders)
18.00	Coach leaving Keyworth to Nottingham
19.30	Conference Dinner at the Cumin

Day 2: Wednesday 18 September

9.00	Coach leaving Nottingham City Centre
10.00 – 10.15	Welcome and key messages from Day 1. Richard Davies (Newcastle University)
10.15	Jo Hawkins (Leeds University) – The shale gas legal landscape in England Panel Discussion Shale Gas Regulation: An International Perspective Chair: Richard Davies Panel Members: Jo Hawkins (Leeds University), Madeline Taylor (University of Sydney), Danny Reible (Texas Tech University)
11.00	Coffee Break and Posters
11.30	Public engagement with shale gas: the challenges Tom Kettleby (University of Bristol) – The scientific and communication challenges associated with induced seismicity Stacia Ryder (Exeter University) - Comparing Industry Engagement Strategies and Public Perceptions: Developing Case Study Research on Shale Gas Exploratory Drilling Sites in the UK Rob Ward (BGS) – Long-term community engagement to ensure delivery of research on contentious issues
	Panel discussion: Mike Bradshaw Ken Cronin (UKOOG), Richard Davies, Beth House (NERC), UKRI (TBC)
12.50	Conference reflections Richard Davies
13.00	Lunch break and posters
14.00	Challenge specific meetings (breakout rooms): Challenge 2: De La Beche conference room Challenge 3: Breakout room 1 Challenge 4: Breakout room 2 Challenge 5: Meeting room 3 Tea and coffee available from 3pm