

serving science, profession & society

Bryan Lovell Meeting 2019:

Role of geological science in the decarbonisation of power production, heat, transport and industry

21 – 23 January 2019

Programme

Monday 21 January 2019		
08.45	Registration & tea, coffee & refreshments	
09.20	Welcome - Mike Stephenson (British Geological Survey) Day 1 Chair: Stuart Haszeldine (University of Edinburgh)	
09.30	KEYNOTE: Trends in world energy and decarbonisation Spencer Dale (BP)	
Session I: Geological energy storage		
10.00	Cool Economy Toby Peters (University of Birmingham)	
10.30	Energy storage - Compressed Air Energy Storage – a cost-effective enabler for carbon- free energy Seamus Garvey (University of Nottingham)	
11.00	Breakout Session: Tea, coffee, refreshments and posters	
11.30	High-temperature subsurface heat storage as part of the future urban heat supply Sebastian Bauer (University of Kiel, Germany)	
12.00	" <i>It's all mica schist</i> " the role of fracture and fault analysis in the design and routing of tunnels for Hydroelectric Storage schemes Martin Smith (British Geological Survey)	
12.30	Lunch and posters	
Session:II Carbon capture and storage		
13.30	CO₂ Capture Jon Gibbins (University of Sheffield)	
14.00	The Design of Carbon Dioxide Storage Martin Blunt (Imperial College)	
14.30	Biomass energy with CCS: unlocking negative emissions Clair Gough (University of Manchester)	
15.00	Breakout Session: Tea, coffee, refreshments and posters	
Session III: RE Geoscience		
15.30	Minerals for the energy transition Karen Hanghøj (EIT RawMaterials)	
16.00	Siting of offshore wind turbines Ingrid Feyling (Fauinor)	

16.30	Midway Plenary: Discussion	
17.00	Close	
17.10	Drinks reception	
Tuesday 22 January 2019		
08.45	Registration & tea, coffee & refreshments	
09.20	Welcome and Day 2 Chair: Philip Ringrose (Equinor)	
09.30	KEYNOTE: Science Policy and Decarbonisation Chris Stark (Chief Executive, Committee on Climate Change)	
 	Session IV: Geothermal	
10.00	Geothermal: Hot dry rock Roy Baria (EGS Energy)	
10.30	Low enthalpy heat and building Ingo Sass (TU Darmstadt, Germany)	
11:00	Mining for Heat Charlotte Adams (Durham University)	
11.30	Breakout Session: Tea, coffee, refreshments and posters	
12.00	Geoscience Insights for Developing Superhot Icelandic Geothermal Resources Thomas Driesner (ETH Zurich, Switzerland)	
12.30	Do we have the right skills for the geoscience decarbonisation future? John Underhill (Heriot-Watt University)	
13.00	Lunch and posters	
	Session V: Hydrogen economy	
14.00	Is there a role for H₂ in large-scale power production? James Dawson (NTNU)	
14.30	H21 North of England Henrik Solgaard Andersen (Equinor)	
	Session VI: Critical material resources	
15.00	Clean technology raw materials: Rare Earth Elements Frances Wall (University of Exeter)	
15.30	Breakout Session: Tea, coffee, refreshments and posters	
16:00	Seabed minerals Tracy Shimmield (British Geological Survey)	
16.30	Mineral resources in a low carbon future Lluis Fontbote (University of Geneva)	
	Session VII: Energy transitions	
17.00	Social science insights on energy transitions Ben Sovacool (University of Sussex)	
17.30	Close Philip Ringrose (Equinor)	
Wedne	sday 23 January 2019	
08.45	Registration & tea, coffee & refreshments	
09.20	Welcome Mike Stephenson (British Geological Survey)	
09.30	Public views of geoscience decarbonisation options Nick Pidgeon (Cardiff University)	

Session VIII: Nuclear		
10.00	Geological disposal of radioactive waste Jonathan Turner (RWM)	
10.30	Assessing Geohazards for UK Nuclear New Builds Bob Holdsworth (Durham University)	
11.00	Breakout Session: Tea, coffee, refreshments and posters	
Session IX: Skills, resources, infrastructure		
11.30	Role of the Oil and Gas sector in decarbonisation Phil Ringrose (Equinor)	
12.00	Deep Geothermal: exploration in Italy, from knowledge to deployment in Europe Adele Manzella (IGG CNR, Italy)	
12.30	UK Networks and projects Jonathan Pearce (British Geological Survey)	
13.00	Lunch and posters	
14.00	Advancing the Energy Transition Dominic Emery, BP's Vice President of Group Strategic Planning	
The Underground and Decarbonisation: Minding the Gap Between Geoscience, Policy and Progress, chaired by Andrew Miller (tbc)		
14.30	Policy & Geoscience in Conversation Government and Policy Led Panel Discussion	
16.00	Way Forward Q&A: Mapping out Barriers to Change Mike Stephenson, Sebastian Geiger, Dave Schofield, Phil Ringrose, Mike Bridden	
16.30	Close	