### Bryan Lovell Meeting 2019:
**Role of geological science in the decarbonisation of power production, heat, transport and industry**

21 – 23 January 2019

<table>
<thead>
<tr>
<th>Poster Programme</th>
</tr>
</thead>
</table>
| **A new research facility: kick-starting future opportunities in subsurface mine water geothermal heat and heat storage**  
J. Birkin¹ & K. Shorter ¹  
¹British Geological Society, Keyworth, Nottingham, United Kingdom |
| **Scaled cavern formation by salt dissolution: gas storage in the Permian halite**  
Katherine A. Daniels², Jon F. Harrington¹, Lorraine P. Field⁴ and David J. Evans⁷  
²British Geological Survey, Nicker Hill, Keyworth, Nottinghamshire, NG12 5GG, UK. |
| **Linking Redox Processes and Black Shale Resource Potential**  
J. Emmings²,², S. Poulton¹, G. Jenkin¹, S. Davies⁷, C. Vane¹, Peter C. M. Leng¹, ²A. Lamb,¹ Vicky Moss-Hayes¹  
²British Geological Survey, Keyworth, Nottingham, NG12 5GG, UK. |
| **Carbon capture and storage on the East Irish Sea Basin**  
Davide Gamboa¹, John D. O. Williams², Michelle Bentham¹, David Schofield³, Andrew Mitchell⁴  
¹ British Geological Survey, Columbus House, Greenmeadow Springs, Tongwynlais, Cardiff, CF15 7NE, UK |
| **Quantifying geological CO₂ storage security to deliver on climate mitigation**  
Juan Alcalde¹, Stephanie Flude¹,², Mark Wilkinson³, Gareth Johnson⁴, Katriona Edmam²,², Clare E. Bond⁴, Vivian Scott⁴, Stuart M.V. Gillillan¹,², Xània Ogaya¹,² and R. Stuart Haszeldine³  
¹Geology and Petroleum Geology, University of Aberdeen, School of Geosciences, Kings College, Aberdeen, AB24 3UE, UK |
| **Subsurface capacity for energy storage onshore and offshore UK: CO₂, CAES, Hydrogen**  
Stuart Haszeldine¹, Mark Wilkinson, Stuart Gillillan, Gareth Johnson, Julian Mouillli-Castillo, Jon Scafidi, Niklas Heinemann, Dimitri Mignard  
¹School Of Geosciences, University Of Edinburgh |
| **Europe’s cobalt resource potential for supply to low-carbon vehicles**  
S. Horn¹, E. Petavratzi¹, G. Gunn¹, R. Shaw¹, F. Wall²  
¹British Geological Survey, Nicker Hill, Keyworth, Nottingham, NG12 5GG |
| **Run-of-the-River Micro Hydro Power – Feasibility and Value**  
Dr. M. Johansson³  
³Geode-Energy Ltd, 1-9, Central Square, Cardiff, CF10 1AU, United Kingdom |
| **Assessing the feasibility of the “all-in-one” concept in the UK North Sea: offsetting carbon capture and storage costs with methane and geothermal energy production through reuse of a hydrocarbon field**  
Jonathan Scafidi and Stuart M.V. Gillillan  
School of GeoSciences, University of Edinburgh, James Hutton Road, Edinburgh, EH9 3FE, UK. |
| **Mine water: a sustainable renewable energy resource?**  
Fiona Todd, Dr Chris McDermott, Dr Andrew Fraser Harris, Dr Stuart Gillillan and Dr Alex Bond  
¹University of Edinburgh, Old College, South Bridge, Edinburgh EH8 9YL  
²Quintessa Ltd, First Floor, West Wing, Videcom House, Newtown Rd, Henley-on-Thames RG9 1HG |