

## **GeoRepNet 3 – GEOLOGICAL REPOSITORIES, SUBSURFACE LABS AND OTHER SUBSURFACE ENVIRONMENTS: HIGH TECHNOLOGY TRANSFER**

**Monday, October 12<sup>th</sup>** - Geological repositories, subsurface labs and other subsurface environments: General Environment

9:00-9:30 Arrival and Registration

9:30-10:00 Charles Cockell (University of Edinburgh) 'GeoRepNet, an overview'

10:00-10:30 Katharine Hollinshead (STFC) 'STFC Impact Funding Schemes'

**10:30-11:00 Tea & Coffee**

11:00-11:30 Stuart Haszeldine (University of Edinburgh) 'Carbon Capture and Storage and RAdWaste disposal'

11:30-12:00 Adrian Jones (DCO) 'Deep Carbon Observatory'

12:00-12:30 Beverly DeJarnett (DCO) 'A Database of Repositories: The Deep Carbon Observatory Works Toward Increasing the Use of Existing Scientific collections'

**12:30-14:00 Lunch**

14:00-14:30 Helen Taylor and Jonathan Pearce (BGS) 'ECCSEL, the pan-European CCS Research Infrastructure'

14:30-15:00 Joanna Wragg (BGS) 'The NERC RATE programme, where are we now'

15:00-15:30 Katinka Wouters (SCK-CEN) 'The MIND-project: Microbiology In Nuclear waste Disposal'

**15:30-16:00 Tea & Coffee**

16:00-16:30 Pauliina Rajala (VTT Technical Research Centre of Finland) 'Microbially induced corrosion in deep bedrock repository'

16:30-17:00 Konstantinos Christou (University of Aberdeen) 'The Impact of Flow Instabilities in geological formations: A dynamic unstructured mesh approach technique'

**Tuesday, October 13<sup>th</sup>** - Technology Transfer: Case Studies

9:30-10:00 Simon Harley (University of Edinburgh) 'Magnetic Materials: Novel monitors of long-term evolution of engineered barrier systems'

10:00-10:30 Nick Smith (NNL) 'Remote monitoring of GDF engineered and geological barriers using stand-off photonics characterisation'

**10:30-11:00 Tea & Coffee with Biscuits**

11:00-11:30 Claire L Corkhill (University of Sheffield) 'Understanding the long-term performance of geological disposal facility materials using X-ray synchrotron techniques'

11:30-12:00 Lee Thompson (University of Sheffield) 'The application of muon tomography to the monitoring of stored carbon dioxide'

12:00-12:30 Graeme Hansford (University of Leicester) 'Handheld XRD Instrumentation Applied to Geological Repositories'

**12:30-14:00 Lunch**

14:00-14:30 Claire Cousins (St. Andrews University) 'UV luminescence imaging for in situ mineral mapping'

14:30 15:00 Jon Haycox (Itasca Microseismic and Geomechanical Evaluation (IMaGE))  
'Near-field studies of the excavation damage zone using acoustic emission, ultrasonic and tomographic imaging at the ONKALO underground rock characterisation facility'

**15:00 15:30 Tea & Coffee**

15:30 17:00 Meet the Researcher Event

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19:30 Drinks Reception for Dinner at Playfair Library

20:00 Conference Dinner at Playfair Library

22:00 Guests depart

### **Wednesday, October 14<sup>th</sup> - Technology Transfer: the future**

9:30 10:00 Christian Schroeder (Stirling University) 'Instrumentation in planetary exploration applied to geological repositories'

10:00 10:30 Sean Paling (University of Sheffield) 'Boulby Underground Laboratory'

**10:30 11:00 Tea & Coffee**

11:00 11:30 Johan Bertrand (Andra) 'Overview of the technological development inside the Modern2020 EC-project'

11:30 12:00 Joginder Fagura (Optimat) 'GeoRepNet - Market Analysis of Long Term Repository Monitoring Technologies'

12:00 12:15 Charles Cockell (University of Edinburgh) 'Summary'

**12:30 14:00 Lunch**

**14:00 – End**