



The
Geological
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Sustainable Exploitation of the Subsurface

20 – 21 May 2015

Geological Society, Burlington House

Programme

Day 1- Wednesday 20 May 2015

09.00	Registration, tea and coffee
09.20	Welcome - Helen Reeves (BGS, UK) Opening remarks Sir Mark Walport (UK Government Chief Scientific Adviser)
10.00	KEYNOTE: Subterranea: Making public the geological subsurface Iain Stewart (University of Plymouth, UK)
10.40	Session 1: Subsurface Investigation Chair – David Norbury (Independent Consultant, UK)
10.45	KEYNOTE: Subsurface investigation: A future for data, interpretation, construction feedback and adaptation Nick O’Riordan (Arup, UK)
11.25	Tea and coffee break and poster session
11.45	Assessing the feasibility of high-density subsurface heat extraction in urban areas Corinna Abesser and Jonathan Busby (BGS, UK)
12.05	From site exploration to gas operation: The development of the Holford gas storage Bruno Colcombet (Geostock, France) and Ross Fawthrop (Eon UK)
12.25	Subsurface investigation: Are quantum technology sensors the answer? Nicole Metje (University of Birmingham, UK) and George Tuckwell (RSK, UK)
12.45	Subsurface information: Living with uncertainty Murray Lark and Steve Mathers (BGS, UK)
13.05	Crossrail - Bond Street and Tottenham Court Road Ground Investigation: How much does the soil matter? Khalid Eisa (Atkins, UK)
13.25	Lunch and poster session
14.10	Session 2: Regulation, Planning and Communication Chair – Brian Collins (University College London, UK)
14.15	KEYNOTE: Dealing with planning and legal issues when using underground space Han Admiraal (ITACUS and Enprodes, Netherlands) and Antonia Cornaro (ITACUS and Amberg Engineering, Switzerland)
14.45	KEYNOTE: Urban planning and the subsurface in the City of Rotterdam: The slow road from awareness to standard practice Ignace van Campenhout (Rotterdam Municipality, Netherlands)
15.15	Tea and coffee break and poster session
15.40	KEYNOTE: The regulatory role of the Health and Safety Executive (HSE) in onshore oil and gas developments, including oil and gas wells and gas storage. Tony Almond (Offshore and Pipeline Policy Team, HSE, UK)
16.10	Communicating the invisible: Public perceptions of subsurface Britain Hazel Gibson (University of Plymouth, UK)
16.30	Panel Discussion – Regulation, planning and communication
17.30	Drinks Reception

Day 2 - Thursday 21 May 2015

08.45	Arrival, tea and coffee
09.00	Session 3: Sustainable Management of Subsurface Resource Chair – Ian Duncan (GSL Engineering Group/Mott MacDonald, UK)
09.05	KEYNOTE: Engineering the underworld towards future liveable cities Chris Rogers (University of Birmingham, UK)
09.45	Sustainability assessment tools for utility streetworks Aryan Hojjati and Ian Jefferson (University of Birmingham, UK)
10.05	Challenges integrating seismic data with coupled fluid-flow and geomechanical models for characterising and monitoring subsurface geological repositories Doug Angus (University of Leeds, UK)
10.25	Providing the subsurface data and knowledge base for planning and developing the sustainable and resilient cities of tomorrow – in Glasgow, and elsewhere Diarmad Campbell (BGS, UK)
10.45	Tea and coffee break and poster session
11.15	Fast cycle gas storage: Sustainable exploitation of the salt subsurface Keith Budinger (Halite Energy Ltd, UK)
11.35	BritGeothermal: Plumbing the Depths Charlotte Adams (Mgr BritGeothermal, UK)
11.55	The potential for developing aquifer storage and recovery in the Lower Greensand of North Kent Jamie Riches (Thames Water, UK)
12.15	Session 4: Decommissioning/Reuse of Space Chair – Andrew Bloodworth (BGS, UK)
12.20	Review of investigation techniques relevant to the geological disposal of radioactive waste Andy Parkes (Radioactive Waste Management, UK)
12.40	Historic perspective on mineral exploitation: Why a sustainable approach matters Colin Harding (Mott MacDonald, UK)
13.00	Rehabilitation of a Victorian Railway Tunnel for Crossrail Jonathan Craft (Atkins)
13.20	Lunch and poster session
14.05	Session 5: Innovative Construction and Design Chair – Mike Francis (BTS/Mott MacDonald, UK)
14.10	KEYNOTE: Innovation underground: What do we value? Keith Bowers (Transport for London, UK)
14.50	Offshore salt cavern construction risk mitigation Andrew Stacey (Stag Energy Development, UK)
15.10	Control and prediction of colloidal silica gelling for low viscosity grouting Matteo Pedrotti (University of Strathclyde, UK)
15.30	GeoBIM for optimal use of geo data Mats Svensson (Tyrens AB, Sweden)
15.50	Rock fracture sealing by microbially induced carbonate precipitation James Minto (University of Strathclyde, UK)
16.10	Closing remarks David Shilston (GSL/Atkins, UK)
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