

25 APRIL 2017

9:00 Workshop introduction *Jonathan Craig, ENI*

Session 1 Petroleum-Geothermal Combined Systems

9:20 Hydrocarbon-Geothermal Exploration 'Cross-over' Technologies *Raymond Leavey, EGU*

10:00 Using geothermal gradient anomalies of hydrocarbon entrapment in rejuvenating mature basins and identifying missed and bypassed traps *Ibrahim Muhammad, Target Exploration Consultants*

10:30 From Hydrocarbons to Heat: Mutual benefits of co-production for hydrocarbon and geothermal industries *Charlotte Adams, Durham University*

11:00 Coffee

11:15 Integration of Gravity and VSP seismic data to characterise carbonate geothermal reservoirs in the Geneva Basin (Switzerland) *Luca Guglielmetti, University of Geneva*

11:45 Deep Karst and Geothermal: Redefining the Oil Industry *Nadia Narayan, Durham University*

12:15 Lunch

Session 2

Evaluating the prospectivity of fluid systems: lessons from the petroleum and geothermal industries

13:30 The role of Tertiary strike-slip faulting in sub-surface fluid flow in Ireland: potential implications for UK and Irish geothermal and petroleum systems. *John Walsh, University College Dublin*

14:10 The influence of basement structure and drainage networks on prospectivity in the East African Rift System *Rowan Edwards, NPA Satellite Mapping*

14:40 Importance of Outcrop Analogues for Predicting Fluid Flow in Fractured Rock: Lessons from Hydrocarbon Exploration & Production *Richard Jones, Geospatial Research*

15:10 Coffee

15:25 Quartz and Fe-dolomite cements record shifts in formation-water chemistry and hydrocarbon migration in Devonian shoreface sandstones, Ghadamis basin, Libya *Howri Mansuberg, Soran University*

15:55 Regional exploration for geothermal resources production and heat storage in Western Switzerland. *Andrea Moscariello, Dept. of Earth Sciences, University of Geneva*

16:25 A Playfairway Analysis of the Geothermal Potential of Ireland *Nick O'Neill, SLR Consulting*

16:55 The DGSW concept for deep geothermal heat extraction: critical appraisal under UK conditions *Rob Westaway, Glasgow University*

17:25 Day 1 summary and wrap up *Jon Gluyas, Durham University*

17:30 End day 1

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Session 3

Play Systems & Modelling and measuring fluid flow in geothermal and petroleum systems

9:00	Novel play approach for ultra deep geothermal	Friso Veenstra, TNO
9:40	Oil exploration and the Geothermal Dual Play in the West Netherlands	<i>Eveline De Vaal, NAM</i>
10:10	Optimization of Geothermal Well Placement under Geological Uncertainty – a tech transfer example from oil and gas	<i>Daniel Arnold, Heriot Watt University - Institute of Petroleum engineering</i>
10:40	Coffee	
10:55	Numerical Simulation and Modelling Studies of CO ₂ Storage in a Depleted Oil Reservoir using Eclipse CO ₂ SOL Option. (A Case Study of reservoir X, Prinos Field Greece).	<i>Fait Oko-Jaja, Coventry University</i>
11:25	New method for monitoring steam injection for EOR & finding sources of geothermal heat	<i>Gordon Stove, Adrok</i>
11:55	Dehydration of rocks as a source of genesis of geofluids, hydrocarbons, diamondiferous structures, mud volcanoes and fields of precious metals in various regions of the Earth	<i>Albert Harutyunyan, National Polytechnic University of Armenia</i>

12:25 Lunch

Session 4

Enhanced geothermal systems and petroleum reservoir fracking

13:30	Microseismic monitoring of geothermal systems	Gillian Foulger, Durham University
14:10	Near-Well Fracturing Stimulations by Thermal Methods	<i>Gary Couples, Heriot Watt</i>
14:40	Effects of anisotropy in layered shale and limestone sequences on fracture propagation	<i>Nathanial Forbes Inskip, Royal Holloway</i>
15:20	Coffee	
15:35	Geomechanical characterization of the Buntsandstein for a quantification of the geothermal energy potential in the West Netherlands Basin	<i>Thomas Hinkofer, Delft University</i>
16:05	Hydraulic fracturing methods and gas shales in the UK	<i>Fivos Spathopoulos, Imperial College</i>
16:35	Facilitated discussion and workshop wrap up	<i>Dr Susie Daniels, Geospatial Research Limited</i>
17:00	End of the workshop	