



# Carbon Storage Opportunities in the North Sea

24 – 25 March 2010

## PROGRAMME

<b>Wednesday 24 March</b>	
09.00	<b>Registration and Coffee</b>
	<b>Session One: Creating the Right Investment Environment: Defensible and Accurate Geological Storage Capacity Estimates and Leakage Monitoring Capabilities Part I</b>
09.30	<b>KEYNOTE: Mike Stephenson</b> Role of the Geological Survey in CCS
10.00	<b>Ben Hedley</b> Regional Characterisation and Assessment of UK North Sea Sub-salt Saline Aquifers for Geological Sequestration of CO <sub>2</sub>
10.25	<b>Bert van der Meer</b> Subsurface CO <sub>2</sub> Storage Capacity Calculations
10.50	<b>Coffee and Poster Session</b>
11.15	<b>Sveinung Hagen</b> Exploration for CO <sub>2</sub> Storage Sites in the Norwegian Sector of the North Sea Basin
11.40	<b>Amy Clarke</b> Geological Characterisation of the Hewett Field for CO <sub>2</sub> Storage
12.05	<b>Cliff Lovelock</b> Assessing Subsurface Risk in Re-Using an Offshore Depleted Hydrocarbon Field for CCS
12.30	<b>Lunch and Poster Session</b>
	<b>Session Two: CO<sub>2</sub> Subsurface Modelling, Long Term Fate and Storage Security in Reservoirs Part I</b>
13.30	<b>Graham Yielding</b> Fault Seal Analysis for CO <sub>2</sub> Storage – An Example From the Troll Area, Norwegian Continental Shelf
13.55	<b>Joe Cartwright</b> Quantifying Seal Risk for CCS: The Impact of Seal Bypass Systems
14.20	<b>Thomas Graf</b> A New Method to Predict and Quantify the Effects of CO <sub>2</sub> Injection Into Subsurface Formations



14.45	<b>Andy Chadwick</b> Time-lapse Seismic monitoring at Sleipner Provides Insights Into Storage Reservoir Performance
15.10	<b>Coffee and Poster Session</b>
	<b>Session Three: North Sea Opportunity: Government Legal and Regulatory Framework</b>
15.40	<b>KEYNOTE: Stuart Haszeldine</b> Carbon Capture and Storage: Geoscience Opportunities for the UK
16.10	<b>David Rutland</b> CCS UK Government View
16.35	<b>Ian Havercroft</b> Legal View
17.00	<b>Wine Reception</b>



## Thursday 25 March

09.00	<b>Registration and Coffee</b>
	<b>Session Four: Creating the Right Investment Environment: Defensible and Accurate Geological Storage Estimates and Leakage Monitoring Capabilities Part II</b>
09.30	<b>KEYNOTE: Jaap Breunese</b> CO <sub>2</sub> Storage in Depleted Gas Fields – The Netherlands Offshore Case
10.00	<b>Niklas Heinemann</b> CO <sub>2</sub> Storage Capacity in the Bunter Sandstone Limited by Local Pressure Development, UK Southern North Sea
10.25	<b>Martyn Quinn</b> Identification and Characterisation of a Potential CO <sub>2</sub> Storage Site, UK North Sea
10.50	<b>Coffee and Poster Session</b>
11.20	<b>KEYNOTE: Ramon Trevino</b> Gulf of Mexico Offshore Geosequestration: Status and Future.
11.50	<b>Stuart Haszeldine</b> Size-Distribution of CO <sub>2</sub> Storage Units, Limited by Overpressure, in the Pre-Cenozoic of the Central and Northern North Sea.
12.15	<b>Graham Yielding</b> Role of Stratigraphic Juxtaposition for Seal Integrity in Proven CO <sub>2</sub> Fault Traps of the Southern North Sea
12.40	<b>Lunch and Poster Session</b>
	<b>Session Five: CO<sub>2</sub> Subsurface Modelling, Long Term Fate and Storage Security in Reservoirs – Part II</b>
13.40	<b>Grace Cairns</b> Geological Factors Influencing Time Lapse Seismic Monitoring of Subsurface CO <sub>2</sub> Storage
14.05	<b>Gareth Williams</b> Mapping CO <sub>2</sub> Layer Thickness in a Growing Plume at Sleipner, North Sea, Using Quantitative Seismic Interpretation
14.30	<b>John Grocott</b> Application of Structure Validation and Kinematic Modelling in Building a Discrete Fracture Network (DFN) for a Salt-Bounded Dolomitic Limestone Reservoir Unit.
14.55	<b>Coffee and Posters</b>
15.25	<b>Min Jin</b> Optimisation of CO <sub>2</sub> Storage in the North Sea Aquifer



15.50	<b>Grant Nicoll</b> Could CO <sub>2</sub> Storage Site Performance be Compromised by Palaeo-Gas Migration Conduits in the Overburden?
16.15	<b>Panel Discussion</b>
17.15	<b>Conference Ends</b>

## POSTER PROGRAMME

**Nicklas Heinemann**

The Impact of Simulated Mutual Dissolution of CO<sub>2</sub> and Water on the Short Term Pressure Build-Up During CO<sub>2</sub> Injection

**Jennifer Roberts**

To Leak or Not to Leak? Investigating the Plumbing of CO<sub>2</sub> Fluids in Central Italy