



CO₂ Site Closure Assessment Research

- CO₂CARE -

Collaborative project

Theme: Energy

Project Number 256625



AGENDA

FOR THE

CO₂CARE Annual Scientific Conference 2012

and

Workshops

Date: 26-27 March 2012

at

Imperial College London

**Imperial College
London**

GFZ
Helmholtz Centre
POTSDAM

1. Date and venue of the meeting

Date: March, 26-27, 2012

Venue: Department of Earth Science and Engineering, Royal School of Mines, Imperial College London, Prince Consort Road, London SW7 2BP
Rooms 1.47, G38 and G39 (Building 9-10)

1.2 Participants of the Scientific Conference

1	Sevket Durucan	Imperial	Industrial partners		
2	Anna Korre	Imperial	37	Claus Otto	Shell Global
3	Ji-Quan Shi	Imperial	38	Emilia Liteanu	Shell Global
4	Amer Syed	Imperial	39	Andreas Busch	Shell Global
5	James Smith	Imperial	40	Claire Bourhy-Weber	Air Liquide
6	Rajesh Govindan	Imperial	41	Natalia Quisel	Veolia
7	Giacomo Bacci	Imperial	42	Rudolf Held	Statoil
8	Michael Kühn	GFZ	43	Tor Harald Hanssen	Statoil
9	Mario Wipki	GFZ	44	Katrin Bergmann	Vattenfall
10	Sonja Martens	GFZ	45	Catherine Prinnet	TOTAL
11	Stefan Lüth	GFZ			
12	Thomas Kempka	GFZ	National Authorities Representatives		
13	Elisa Klein	GFZ	46	Domenico Gaudio	Italy
14	Marco De Lucia	GFZ		ISPRA	
15	Juliane Kummerow	GFZ	47	Jaap N. Breunese	Netherlands
16	Gunther Baumann	GFZ		TNO	
17	Jean-Pierre Deflandre	IFPEN	48	Eva Halland	Norway
18	Habiba Boulharts	IFPEN		NPD	
19	Audrey Estublier	IFPEN			
20	Alain Bonneville	PNNL			
21	Chris Juhlin	Uppsala			
22	Andy Chadwick	BGS-NERC			
23	Pascal Audigane	BRGM			
24	Frédéric Wertz	BRGM			
25	Peter Frykman	GEUS			
26	Carsten M. Nielsen	GEUS			
27	Jens Wollenweber	TNO			
28	Vincent Vandeweijs	TNO			
29	Laura Wasch	TNO			
30	Rob Arts	TNO			
31	Ton Wildenborg	TNO			
32	Bogdan Orlic	TNO			
33	Gualtiero Böhm	OGS			
34	Stefano Picotti	OGS			
35	Ryozo Tanaka	RITE			
36	Quanlin Zhou	LBNL			

2. Conference time schedule

Scientific Conference (CO₂CARE members) Monday, March 26, 2012 - 10:00 – 17:55 GMT Room 1.31 Royal School of Mines		
Time		Speaker
10:00	Reception and Registration	
10:30	Opening and Welcome	Sevket Durucan (Imperial College)
Regulatory Session Chairperson: Claus Otto (Shell)		
10:40-11:00	Review of the international regulatory requirements on CO ₂ geological storage and site abandonment	Anna Korre (Imperial College)
11:00- 11:40	<i>"Implementation of EU Directive 2009/31/EC on the Geological Storage of Carbon Dioxide"</i> Presentations by representatives of the National Authorities	
11:00-11:20	<u>Italy:</u> ISPRA – Insituto Superiore per la Protezione e la Riccera Ambientale	Domenico Gaudioso (ISPRA)
11:20-11:40	<u>The Netherlands:</u> TNO – Geological Survey of the Netherlands	Jaap N. Breunese (TNO)
Recent Developments at Project Sites Chairperson: Claus Otto (Shell)		
11:40 - 12:20	Presentations by CO ₂ CARE industry partners and site operators providing an overview of recent activities at each project site: K12-B Sleipner	Vincent Vandeweyer (TNO) Rudolf Held (Statoil)
12:20-13:45	Lunch break	Sherfield Building

Recent Developments at Project Sites (Continued)		
Chairperson: Claus Otto (Shell)		
13:45-14:45	Presentations by CO2CARE industry partners and site operators providing an overview of recent activities at each project site: <div style="text-align: center;"> Ketzin Wallula Nagaoka </div>	Sonja Martens (GFZ) A. Bonneville (PNNL) Ryoza Tanaka (RITE)
“Technical” Session		
Chairperson: Michael Kühn (GFZ)		
14:45-15:05	Current site abandonment methodologies in industries relevant to CO ₂ storage	Jens Wollenweber (TNO)
15:05-15:25	Full scale well mechanical modelling: previous results	Habiba Boulharts (IFPEN)
15:25-15:45	Tea/Coffee Break	
15:45-16:05	Analytical computation of a leakage on a cement plug	Frédéric Wertz (BRGM)
16:05-16:25	Geochemical modelling of intentional salt clogging	Laura Wasch (TNO)
16:25-16:45	Progress in experimental and theoretical studies into wellbore behaviour	Amer Syed (Imperial College)
16:45-17:15	Prediction of CO ₂ plume behaviour at the Ketzin pilot site -	Thomas Kempka (GFZ)
	Long-term stability assessment by mineral trapping at the Ketzin pilot site	Elisa Klein (GFZ)
17:15-17:35	Petrophysical core characterisation	Juliane Kummerow (GFZ)
17:35-17:55	Integration of monitoring data and simulations	Stefan Lueth (GFZ)
19:00	Conference Dinner Imperial College	

Scientific Conference (CO2CARE members) Tuesday, March 27, 2012 - 09:00 – 13:30 GMT Room 1.31 Royal School of Mines		
Time		Speaker
	“Technical” Session Chairperson: Alain Bonneville (PNNL)	
09:00-09:20	Status update of seismic acquisition with the TNO permanent seismic array installed at Ketzin	Rob Arts (TNO)
09:20-09:40	Assessment of geomechanical failure and caprock fracture connectivity in storage sites	James Smith (Imperial College)
09:40-10:00	Review of trapping mechanisms relevant to CO2CARE project sites	Peter Frykman (GEUS)
10:00-10:20	Conformity between simulated and monitored behaviour and leakage detection thresholds at Sleipner - preliminary results	Andy Chadwick (BGS)
10:20-10:45	Tea/Coffee Break	
10:45-11:05	Long-term CO ₂ migration at Sleipner	Audrey Estublier (IFPEN)
11:05-11:25	“Risk management and decision making in site abandonment”	Ton Wildenberg (TNO)
11:25-11:40	Best practice and regulatory compliance: Project aims and objectives	Andy Chadwick (BGS)
11:40-12:00	Project dissemination activities: Progress during Year One	Gualtiero Böhm (OGS)
12:00-12:20	The <i>SiteChar</i> Project - A methodology to characterise a site for storage permit licensing	Jean-Pierre Deflandre (IFPEN)
12:20-12:40	“Implementation of EU Directive 2009/31/EC on the Geological Storage of Carbon Dioxide” Norway: Director of the Norwegian Petroleum Directorate	Eva Halland (NPD)
12:40-13:00	Round Table Review of the Project Progress and Recommendations by Industrial Partners	
13:00	Lunch and End of Scientific Conference	Sherfield Building

End of the conference

4.4 Workshops

Workshops Tuesday 27 March 15:00 – 17:00

WP 3: Stefan Lüth – **ROOM G38** Royal School of Mines
“Seismic monitoring in Ketzin”

WP2+3: Peter Frykman and Jean-Pierre Deflandre - **1.47** Royal School of Mines ...
“Long-term prediction of trapping - exploration of wildly contrasting results”

WP4: Jens Wollenweber – **ROOM G39** Royal School of Mines
“Application of the risk assessment tools and procedures on the fields”