



Excursion to the RWE Power Plant Site in Niederaussem

An excursion to the RWE Power Plant Site in Niederaussem is envisaged to take place on Saturday morning, 20th of March 2010. This pilot CO₂ scrubbing plant was erected and commissioned in middle 2009 and was built by Linde at the 1,000-MW BoA 1 lignite-fired unit, which, with a net efficiency of over 43%, is the most modern and most efficient lignite-fired unit worldwide. The number of visitors is limited to 25. Thus, early registration for this excursion is necessary to make sure for a free place. The costs are 25 € per participant.

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- 08:00 - 18.00 Registration**
- 09:00 Introduction (chair: Ugur Yaramanci)**
Welcome + Aim of Workshop
Ugur Yaramanci for DGG
Dirk Orłowsky for Workshop Committee
Dr. Jens Baganz
State Secretary in the Ministry for Economic Affairs and Energy of the State of North Rhine-Westphalia
CO₂ Storage - geophysical challenges for 2015 and beyond
Niels Peter Christensen_Vattenfall, DK
Experiences and demands in CO₂ storage
Michel Verliac (SEG-invitee)_Schlumberger, Fr
- 10:30 Coffee break**
- 11:00 International demonstration projects**
(chair: Charlotte Krawczyk)
15 Mtonnes and Counting: 10 Year Anniversary of Monitoring at the Weyburn CO₂ Storage Site
Don White_Alberta, CA
Monitoring experiences at Sleipner
Rob Arts_TNO, NL
Monitoring induced microseismicity at the Aneth oil field during CO₂ injection
James Rutledge_Los Alamos, USA

Discussion
- 12:30 Lunch**
- 13:30 Detailed site characterisation**
(chair: Stefan Buske)
Seismic investigation of subsurface storage sites using CRS techniques
Jürgen Prüssmann & Guido Gierse_TEEC, D

- Application of full waveform inversion to the Sleipner field data**
Celine Ravaut_Sintef, NO

(chair: Henning Trappe)
Non-seismic monitoring concept in the Mountaineer CCS Project
Wolfgang Apel_RWE Dea AG, D
Seismic Monitoring of CO₂ Injection at Various Scales - The CO₂SINK Site at Ketzin
Stefan Lüth_GFZ, D
Coupled numerical THMC simulation of governing processes for CO₂ storage in saline formations
Sebastian Bauer_U Kiel, D

Discussion
- 16:00 Coffee break**
- 16:30 Operational strategies**
(chair: Ludwig Stroink)
The underground storage potential in Germany
Christian Müller_BGR, D
Demands on Monitoring of Underground Coal Gasification in Combination with Carbon Capture & Storage
Ralf Schlüter & Ralf Fritschen_DMT, D
Chances and Risks of the Geological Storage of CO₂ - Systematic Riskreduction
Frank Schilling_KIT, D

Discussion
- 18:00 Concluding remarks**
(chair: Eiko Råkers)

Geophysical Aspects of CO₂-Storage - Challenges and Strategies



March 19th, 2010
Ruhr-Universität Bochum, Audimax
Bochum, Germany

A DGG/SEG-Workshop subsequent to the DGG Annual Meeting

Aims and Objectives

One option that can contribute to achieve the goal of reducing the global greenhouse gas emissions is the capture of carbon dioxide (CO₂) from industry, especially from power generation from fossil fuels and its underground storage in geological formations.

Carbon Capture and Storage (CCS) is already a technically feasible solution. However, before its widespread deployment on an industrial scale, CCS still needs to be demonstrated on the laboratory and field scale. Beside the development of accurate measurement, monitoring and verification technologies, an integrated risk assessment is urgently needed, to ensure the safety of potential storage sites and to address the legitimate concerns of the local communities about CCS.

Geophysics has a pivotal role in the development and application of adequate technologies for the selection and accurate monitoring of future CO₂-storage sites. Therefore, the presidents of the German Geophysical Society (DGG) Prof. Dr. Yaramanci and Prof. Dr. Råkers, initiated this international DGG/SEG-Workshop on CCS under the heading “Geophysical Aspects of CO₂-Storage – Challenges and Strategies”. The workshop will take place on Friday, March 19, 2010 in Bochum/Germany, and runs in continuation to the annual assembly of the DGG, where also CCS-related sessions are scheduled. This one-day workshop aims at giving an overview of state-of-the-art research related to CCS world-wide, focussing here on geophysical methods. The scientific sessions will deal with site characterisation, rock physics and monitoring. In addition, an introduction session covers opportunities and fundamental strategies, while the closing session tackles also operational achievements and public outreach. The workshop shall address scientists, energy providers, the industrial sector, politicians and other in CCS interested groups.

DGG/SEG-Workshop Initiators

DGG president: Prof. Dr. Ugur Yaramanci
(Leibniz Institute for Applied Geophysics, Hannover)

DGG vice-president: Prof. Dr. Eiko Råkers
(DMT GmbH & Co. KG)

Scientific and Technical Committee

Dr. Dirk Orłowsky
(DMT GmbH & Co. KG), Committee Chair

Prof. Dr. Wolfgang Friederich
(Ruhr-University Bochum)

Bernd Hildebrandt
(DMT GmbH & Co. KG)

Prof. Dr. Charlotte Krawczyk
(Leibniz Institute for Applied Geophysics, Hannover)

Dr. Ludwig Stroink
(GFZ German Research Centre for Geosciences, Potsdam)

Margit Thomeczek
(EnergyAgency.NRW)

Dr. Henning Trappe
(TEEC)

**Sponsor Opportunities for the DGG/SEG-Workshop
“Geophysical Aspects of CO₂-Storage – Challenges and Strategies”**

The German Geophysical Society (DGG) and the Society of Exploration Geophysicist are organising a workshop under the heading “Geophysical Aspects of CO₂-Storage – Challenges and Strategies”. The objective of this workshop is to give an overview of the state-of-the-art research related to CCS world-wide, focussing here on geophysical methods and to collect and distribute technical knowledge. However, one main goal is to increase the acceptance of the CCS-techniques and to spread information amongst scientists, energy providers, the industrial sector, politicians and other in CCS interested groups.

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- Associate your company with the DGG and SEG

Should you wish to become a sponsor of this workshop, please refer to the workshop internet site. For more information or questions, please send an email to ccs-workshop@dmtd.de.

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Please select:

- Attendant - 250 EUR
- University / Public Authority - 150 EUR
- Students - 50 EUR
- Excursion - 25 EUR The number of visitors is limited to 25

All fields marked with* are mandatory and must be filled
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