

Pre-meeting preparation: Work Package & Management Board Meetings

Tuesday November, 4, 2014

Venue: GEUS offices, Copenhagen, Denmark

12.00 – 13:00	Lunch	Lunch at canteen for those already arrived
14.30– 16.30	Pre-meeting preparation <ul style="list-style-type: none"> • Preparation of the Guidelines Workshop: WP7.3 • Preparation of the GA meeting: technical presentations; key messages to the AB, how to keep a link with the workshop, etc; • Internal MB issues (Reporting, deviations, ...) 	MB members and guidelines workshop organisation team
16.30 – 17.30	Possibility to break out into small groups to discuss individual WPs, specific tasks, deliverables	WP leader to organise if need be
19h30-22h00	Restaurant dinner	Possibility for all to have dinner in Restaurant (must be booked in advance)

AGENDA Day 1/2

3rd General Assembly & Workshop

Wednesday, November, 5, 2014

Venue: GEUS offices, Copenhagen, Denmark

08.30 – 09:00 **Welcome coffee**

09.00 – 09:15 **Introduction**

- Plan of the day and aims
- Short introduction on long-term issues related to the Directive

9:15-10:30 **Presentation of the Advisory Board**

- Introduction of each AB member and their involvement in CCS
- Stakeholders' questions relevant to long-term issues

10.30 – 11:00 *Coffee Break*

Technical sessions: aim at providing new insight on specific key questions

11:00 – 11:30 **Technical session 1: Can analogues (industrial and natural) help reduce the uncertainty of characterization of the storage complex for long-term behavior?**
15 mn Talk
15 mn Discussion

- Review on analogues for leakage in the North Sea using gas storage site data
- Evidence for the impact of faults and fractures on CO₂ migration from natural analogue studies
- Discussion

11:30 – 12:00 **Technical session 2: How can we better simulate trapping mechanisms and thus reduce the uncertainty of long-term predictions?**
15 mn Talk
15 mn Discussion

- Trapping charts variability,
- Residual trapping in dipping aquifers,
- Convective movements, ...
- Discussion

12.00 – 12:30 **Technical session 3: How can we take uncertainty into account in long-term predictions?**
15 mn Talk
15 mn Discussion

- Data uncertainty
- Model uncertainty

- Applications:
 - pressure response in the reservoir
 - kinetic rates of geochemical model predictions,
 - variability of petrophysical reservoir properties,
- Discussion

12.30 – 13:30 Lunch

Afternoon session Day 1

13.30 – 14:00

15 mn Talk
15 mn Discussion

Technical session 4: What is long-term wellbore integrity? Lessons learned from the Underground Rock Laboratory (URL) experiment

- What can we measure with the URL experiment?
- Representativeness of the URL experiment
- From URL data measurement to long-term modeling prediction of leakage
- Discussion

14:00-14:30

15 mn Talk
15 mn Discussion

Technical session 5: What is long-term caprock integrity? Mechanical behavior of chemically altered caprock?

- Comparison of experimental results on the Opalinus Clay
- Is Opalinus clay a good analogue for caprock?
- Feedback from the offshore gas storage fields
- Natural analogues on fractured sandstones
- Discussion

14.30 – 15:00

15 mn Talk
15 mn Discussion

Technical session 6: What are the hydrodynamic impacts on the CO₂ storage complex? Lessons learned from our case studies

- Impact on the basin hydrology
- Brine displacement, impact of pressure pulse
- From reservoir to basin scale modeling
- Impact of leakage: from well, from caprock
- Discussion

15:00-15:15

Aims of the guidelines workshop

15.15 – 15:45 Coffee Break

15.45 – 17:45

Workshop on the long-term fate of CO₂ storage: Part 1

- Basis of the guidelines report – the 3 criteria for transfer of responsibility to the Competent Authority (i) model conformity, (ii) detection leakage (iii) long term stability (20 mins)
- Consultation and interaction: what ULTimateCO₂ findings should be

- covered in the guidelines report and under which topic? (20 mins)
- Breakout sessions: (i), (ii), (iii) identification of main issues to be addressed in the guidelines report (1h)
- Conclusions, feedback for each group (20 mins)

20.00 – 22:00 *Dinner*

AGENDA - Day 2/2

Feedback from the Advisory Board (AB) & WORKSHOP on “GUIDELINES FOR LONG TERM FATE OF CO₂ STORAGE”

Thursday, November, 6, 2014

Venue: GEUS offices, Copenhagen, Denmark

08:30 – 09:00 *Welcome Coffee*

- 09:00– 11:00 WORKSHOP on Guidelines Part II:**
- Objectives day 2: roadmap (10 min)
 - Summary of part I and extra feedback round (10 min)
 - Overview of the guidelines report structure (chapters, topics and messages) (10min)
 - Template example for contributions (30 min)
 - Discuss: contents, actions, persons, timing (roadmap) (1hr)

11:00 – 12:00 AB internal meeting

- Two parallel meetings for**
- One AB member will act as chairperson responsible for steering the meeting and providing feedback on project recommendations
 - Discussion about the technical sessions
 - Discussion about the guidelines
- AB**

Advisory Board

-Consortium

Consortium Meeting: Management Issues

- Reporting
- Vote open access of deliverables
- AOB (deliverables, deviations, decisions, publications, etc.)

ULTimateCO₂ consortium

12.00 – 13:00 Lunch (sandwiches in the room)

ALL on the list

13:00 – 14:30 Feedback from AB on the project in general and more specifically on the

Chairperson and AB

guidelines

Discussion

Members

AB Feedback: 45 mn

Discussion: 45 mn

14:30-15:00

Wrap up – Conclusion – Validation of guidelines Roadmap

**** close of meeting ****

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