
Workshop agenda

<u>Time</u>	<u>Topics/title</u>	<u>Speaker</u>
Day 1 – September 28, 2005		
Location:	Lloyd Center Ballroom-Holladay	
8:00-8:15	Registration and coffee	
8:15-8:30	Welcome and logistics	GWPC
8:30-8:50	Welcome and workshop goals – Risk assessment workshop: EPA efforts for CO ₂ geologic storage	Anhar Karimjee, EPA HQ Bruce Kobelski, EPA HQ
8:50-9:10	Carbon sequestration: Overview of technology and current DOE efforts	Grant Brohmal, DOE NETL
9:10-9:40	The National Source Water Protection Program under the Safe Drinking Water Act	Roy Simon, EPA HQ
9:40-10:00	Break	
Session 1:	Exposure characterization	
	Session moderator: Elizabeth Scheehle	
10:00-10:20	Integrated processes and isolation performance of geologic CO ₂ storage	James W. Johnson, LLNL
10:20-10:40	Features, events, and processes (FEPs) and potential release scenarios	Philip Maul and Steve Benbow, Quintessa Ltd.
10:40-11:00	Scenarios and pathways for large CO ₂ releases	Jens Birkholzer, LBNL
11:00-11:20	Models for estimation of large-scale leakage along multiple wells	Mike Celia, Princeton
11:20-11:40	CO ₂ leakage through existing wells: current technology and regulatory basis	Taku Ide, Stanford/MIT
11:40-12:00	Participant comments and discussion <ul style="list-style-type: none">▶ Agreement on exposure pathways?▶ Historical experience?	
12:00-1:00	Lunch	
Session 2:	Effects characterization	
	Session moderator: Bob Smith	
1:00-1:20	Geologic storage of CO ₂ : Storage volumes, natural analogs, and geologic evidence useful for assessing risk	Sean Brennan, USGS
1:20-1:40	Prioritizing and constraining risk elements using natural and man-made analogs	Julio Friedman, LLNL

Time	Topics/title	Speaker
1:40-2:00	Potential health risks associated with geological sequestration of CO ₂	Elizabeth Scheehle, EPA HQ
2:00-2:20	Migration mechanisms and potential impacts of CO ₂ leakage and seepage	Curtis M. Oldenburg, LBNL
2:20-2:40	Scoping calculations for selected impacts in the IEA Weyburn Project	Mike Stenhouse, Monitor Scientific
2:40-3:00	Participant comments and discussion ▶ Potential consequences of CO ₂ loss	
3:00-3:10	Break	
Session 3:	Breakout groups Moderator: Anhar Karimjee	
Locations:	Group 1: Lloyd Center Ballroom-Holladay (Paul Jehn) Group 2: Lloyd Center – Idaho (Elise Striz) Group 3: Lloyd Center – Alaska (Jeff McDonald)	
3:10–3:20	Instructions for breakout groups	
3:20–4.50	Topic A – Abandoned well bores Topic B – Fault detection, characterization and monitoring technologies Topic C – Impact of regional ground water movements ▶ What do we know now? ▶ Identify data sources, data gaps, other resources ▶ Relevant scenarios (how and why, monitoring issues, how mediated) ▶ Next steps ▶ Discussion: How to address this issue in the risk assessment	Facilitators: Paul Jehn, GWPC Elise Striz, EPA Jeff McDonald, EPA
4:50-5.20	Reports from breakout groups	Facilitators
5:20-5.45	Participant comments and discussion	
5.45-6:00	Day 1 closing remarks	Anhar Karimjee

Time	Topics/title	Speaker
Day 2 – September 29, 2005		
Location: Lloyd Center – Willamette Ballroom		
7:45-8:00	Opening remarks	Elizabeth Scheehle, EPA HQ
Session 4: Risk management		
8:00-8:20	An integrated risk and consequence assessment framework for geological sequestration projects: Its import to permitting	Prasad Saripalli, PNL
8:20-8:40	HSE screening and ranking framework (SRF) for geologic CO ₂ storage site selection	Curtis M. Oldenburg, LBNL
8:40-9:00	Probabilistic risk assessment at Weyburn and Alberta coal fields	Frank Walton, ECOMatters
9:00-9:20	Risk assessment activities for final phase of Weyburn CO ₂ monitoring and storage project	Rick Chalaturnyk, University of Alberta
9:20-9:40	Participant comments and discussion ▶ Risk assessment for other underground injection projects	
9:40-9:50	Break	
Session 5: Panel discussion – State, industry, and NGO perspectives		
Session moderator: Bruce Kobelski		
9:50-10:50	Up to 10 minutes for each panelist Discussion of major risks, risk management, and relevant field experience including: ▶ Ground water displacement and protection ▶ Areas of review (AOR) ▶ Hydraulic fracturing ▶ Injection and formation pressure ▶ Monitoring	Tom Tomastik, Ohio Department of Natural Resources Mike Stettner, California Division of Oil, Gas, and Geothermal Resources Don Seeburger, Chevron-Texaco
10:50-11:20	Participant comments and discussion	
Session 6: Next steps for risk assessment		
11:20-11:35	Risk Assessment Workshop: A Summary	Bruce Kobelski, EPA HQ
11:35-11:45	EPA next steps	Elizabeth Scheehle, EPA HQ
11:45-12:00	Discussion	
12:00	Meeting adjourned	
