

US EPA ARCHIVE DOCUMENT



**Progress Review of
STAR Grant Research on Carbon Geosequestration**

January 7-8, 2013

EPA Headquarters

Room 1153, 1201 Constitution Avenue, NW, Washington, DC

Monday, January 7th:

Welcome and Introduction **10:00-10:20am**
Barbara Klieforth, *ORD / STAR Program*

Larry Murdoch, Clemson University **10:20-10:40am**
Risks Posed by Brines Containing Dissolved CO₂

Bruce Kobelski, **10:40-11:00am**
OW/Underground Injection Control Program & Class VI Wells

Break & Poster Set-Up **11:00-11:20am**
Rooms 1151 and 1155

Qiang Yang, **11:20-11:40am**
Lamont-Doherty Earth Observatory of Columbia University
Groundwater geochemistry in field injection and lab incubation experiments simulating CO₂ leakage into shallow aquifers in Newark Basin

Eli Deuker, **11:40-12:00pm**
Lamont-Doherty Earth Observatory of Columbia University
Microbial succession and stimulation following CO₂ injection into a Newark Basin Test well

Lunch Break & Poster Session **12:00-1:30pm**

Jeff McDonald, EPA Region 5 **1:30-2:00pm**
EPA Regional Perspective

Ed Mehnert, University of Illinois at Champaign **2:00-2:20pm**
Uncertainties Associated with Geologic Carbon Sequestration in Deep Saline Aquifers

Peter Berger, University of Illinois at Champaign **2:20-2:40pm**
CO₂ Batch Experiments with Reservoir and Seal Rocks

Mike Kolian, <i>OAR / GHG Reporting</i>	2:40-3 pm
Break	3-3:30pm
Sue Hovorka, Bureau of Economic Geology, University of Texas at Austin <i>Development of Site-specific Monitoring Standards</i>	3:30-4pm
J.P. Nicot, Bureau of Economic Geology, University of Texas at Austin <i>Pressure-Anomaly Based Leakage Detection</i>	4-4:30pm
Poster Session Dinner Nearby	4:30-6:00pm 7:00pm
Tuesday, January 8th:	
Brief Introduction <i>Barbara Klieforth, ORD</i>	9:00-9:05am
Glenn Paulson, Science Advisor to the EPA Administrator <i>Unconventional Oil and Gas—Health-Related Actions by The Federal Government</i>	9:05-10:10am
Break	10:10-10:30am
Brian McPherson, University of Utah <i>Aquifer Risk Assessment Framework</i>	10:30-11:00am
John McCray, Colorado School of Mines <i>Water quality implications of brine and CO2 leakage on underground sources of drinking water</i>	11:00-11:20am
Reed Maxwell, Colorado School of Mines <i>Towards an understanding of uncertainty, heterogeneity and reactive transport in a human health risk framework for CO2 sequestration impacts on shallow groundwater</i>	11:20-11:40am
Lunch & Poster Session	11:40-1:00pm
Michael Celia, Princeton University <i>Hierarchical Modeling Framework</i>	1:00-1:20pm
Wrap Up	1:20-2:00pm