

**Presentations by GCCC Staff at National Energy and Technology
Laboratory (NETL) Annual Carbon Capture and Storage (CCS) Meeting.
May 10-13, 2010.
Pittsburgh, PA**

Susan Hovorka, Hongliu Zeng, **Changbing Yang**, Tommy Phelps, **Tip Meckel**, **JP Nicot**, **Jiemin Lu**, Doug LaBrecque, **Masoumeh Kordi**, Yousif Kharaka, Barry Freifeld, David Freeman, Tom Daley, Paul Cook, Dan Collins, David Cole, **Jong-Won Choi** and their colleagues present "Measured and modeled CO₂ flow through heterogeneous reservoir – early results of SECARB test at Cranfield Mississippi".

Changbing Yang, **Katherine Romanak**, **Susan Hovorka**, Jeff Linder, **Rebecca Smyth**, **Ramon Trevino**, Jeff Paine, Bob Holt, L. T. Smith, Yunju Xia, **Jiemin Lu** and their colleagues present "Geochemical characterization of shallow groundwater at the Cranfield aquifer and numerical simulation: Can pH and carbonate parameters be used to detect potential CO₂ leakage at geological CO₂ sequestration sites?"

Jiemin Lu, Kitty Milliken, Robert M. Reed, **Tip Meckel**, and **Susan Hovorka** present "Seal heterogeneity and sealing capacity for CO₂ injection at Cranfield field, Mississippi, USA".

Charles R. Carrigan, Douglas J. Labrecque, Dennis Larsen, Abelardo Ramirez, William Daily, David Freeman, Julio Friedmann, and **Susan Hovorka** present "A Novel Application of Electric Resistance Tomography to Track Subsurface CO₂ Plume Growth and Movement at a Depth of 10,000 Feet".

Daniel Collins, David Freeman, Donald Stehle, **Susan D. Hovorka**, **Tip Meckel**, and **Ramon Trevino** present "Design of research well instrumentation for a long-duration CO₂ flood the Southeast Carbon Sequestration Partnership (SECARB) Phase III DAS Cranfield Project".

Katherine Romanak, **Rebecca Smyth**, **Changbing Yang**, and **Susan Hovorka** present "Detection of anthropogenic CO₂ in dilute groundwater: field observations and geochemical modeling of the Dockum aquifer at the SACROC oilfield, West Texas, USA".

Stuart Coleman, **Carey King**, and **Yihua Cai** present " Cost comparisons for mitigating fluctuations in power plant CO₂ capture in integrated carbon capture and sequestration network by using a stacked storage geologic system".

Katherine Romanak, **Changbing Yang**, and **Susan Hovorka** present "Targeted soil-gas methodologies for monitoring an engineered plugged and abandoned well site, Cranfield Mississippi".

James J. Thordsen, Yousif K. Kharaka, Gil Ambats, Michael A. Manning, David R. Cole, Tommy J. Phelps, Juske Horita, **Jeimin Lu**, **Katherine Romanak** and Paul J. Cook present "Chemical composition of brine and gas in the Tuscaloosa Formation: Preliminary baseline and post CO₂ injection results from SECARB-III test at Cranfield, MS".

Paul Cook, Barry Freifeld, **Katherine Romanak**, **Jiemin Lu**, **Changbing Yang**, Tommy Phelps, Susan Pfiffner and **Susan Hovorka** present "U-tube Geochemical sampling at SECARB Cranfield DAS project".