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Something to Tweet About

Posted on January 15, 2014 (<https://www.beg.utexas.edu/gcccc/blog/something-to-tweet-about/>) | Leave a reply (<https://www.beg.utexas.edu/gcccc/blog/something-to-tweet-about/#respond>)

by **Juli Berwald**

In 2006, the very first tweet was sent. It read, “just setting up my twttr.” That same year, the Gulf Coast Carbon Center (GCCC), along with many partners, was starting an effort you could argue was even more ambitious. It would provide key information about one of the most feasible technologies we currently have available to mitigate climate change. The GCCC was in the planning stages of the most densely observed field study of carbon capture and sequestration in the United States. Located at Cranfield Field, Mississippi, no other sequestration project aimed to incorporate as many different geological and technical measurements at a single storage site.

A special section

(<http://www.sciencedirect.com/science/journal/17505836/18>) of the October issue of the International Journal of Greenhouse Gas Control is dedicated to documenting the seven years of research on CCS at Cranfield. The section is a mid-project overview and assessment of the CCS fieldwork, dense data collection, and analysis that still continues there. The section consists of sixteen papers authored by GCCC staff and their colleagues. It opens with a discussion of the Cranfield project design and covers risk assessment, characterization, injection and production activities, as well as monitoring techniques and modeling. The volume was guest-edited by Susan Hovorka, Tip Meckel and JP Nicot.





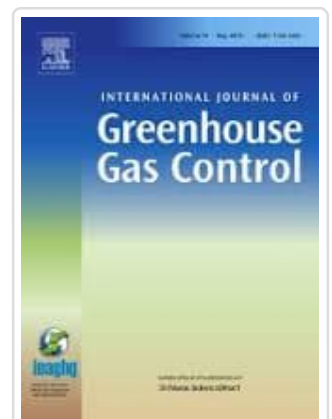
Participants at the IEAGHG Monitoring Network Meeting 2010 pose during a field trip led by the GCCC to the Cranfield Field.

Thanks to the combined efforts of numerous industrial partners, scientific collaborators, and technical subcontractors, today the project at Cranfield has stored four million tons of carbon dioxide. Throughout the project, GCCC has been responsible for geologic characterization, monitoring design, integration, and near-surface monitoring. Denbury Resources, Inc. has been the gracious site host. They have also been responsible for the well preparation and supply of CO₂ for storage and sequestration. Sandia Technologies was responsible for subsurface monitoring systems design and deployment. Schlumberger Carbon Services performed wireline logging and interpretation. Lawrence Berkeley National Lab was responsible for cross-well, VSP and Continuous Active Seismic Source Monitoring (CASSM), implementation and evaluation of noble gas and other tracers, and the U-tube and Distributed Temperature System (DTTS). Lawrence Livermore National Labs and Promore performed cross well Electrical Resistance Tomography (ERT). University of Mississippi and Mississippi State University were responsible for groundwater monitoring.

(<http://www.sciencedirect.com/science/journal/17505836/18>) The publication of this collection of papers is a gratifying milestone for the project and for GCCC. The information and experience accumulated at Cranfield Field both increase confidence and decrease costs of future geologic carbon sequestration projects. Nicot commented, "This is the first exhaustive document of the Partnership's projects, and it will be useful to the entire CCS community."

So go ahead, tweet all about it.

The work at Cranfield was performed in conjunction with the Southeast Regional Carbon Sequestration Partnership (SECARB) with support from the National Energy Technology Laboratory (NETL) and the U.S. Department of Energy (DOE) and managed by the Southern States Energy Board (SSEB).



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- The Gulf Coast Carbon Center (<http://www.gulfcoastcarbon.org/>)
- Clean Air Task Force (<http://www.catf.us/blogs/ahead/>)
- co2facts.org (<http://www.co2facts.org>)

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