

CALL FOR PAPERS

Environmental and Geochemical Aspects of Carbon Sequestration

Session in the Geochemistry Division (*Co-sponsored by the Division of Environmental Chemistry*)
239th American Chemical Society National Meeting
San Francisco, CA
March 21-25, 2010

Abstract Deadline: October 19, 2009

Submit abstracts through the Program and Abstract Creation System (PACS) submission program (links available from <http://portal.acs.org/>).

Geological carbon sequestration has the potential to mitigate anthropogenic carbon dioxide emissions that have perturbed the global carbon cycle and are impacting the global climate. Geological carbon sequestration will involve the development and deployment of technologies that couple chemical reactions and transport on very large scales. Current research is generating new information on geochemical and environmental reactions that are essential to designing sequestration strategies, predicting their performance, and assessing potential risks. Relevant processes include dissolution-precipitation reactions and other interfacial reactions at the high pressures and temperatures of sequestration formations. Multi-phase reactive transport experiments and simulations are important in predicting sequestration performance. Environmental aspects of geological carbon sequestration include monitoring and remediating leaks from formations and assessing the integrity of capping formations and well seals.

This symposium welcomes papers for presentations that describe advances in our understanding of environmental and geochemical aspects of carbon sequestration. Topics of interest include, but are not limited to, laboratory investigations of sequestration processes, field-scale characterization and assessment of sequestration systems, and modeling of reactions and transport at multiple scales.

Invited Speakers Include:

Sally Benson (Stanford University)

David Cole (Oak Ridge National Laboratory),

Don DePaolo (Lawrence Berkeley National Laboratory / University of California-Berkeley)

Catherine Peters (Princeton University)

We look forward to receiving your abstracts and to seeing you in San Francisco in March.

Session Co-Organizers:

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