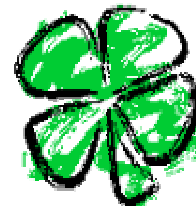




# THE OHIO GEOLOGICAL SOCIETY



The Newsletter of the Ohio Geological Society

March 2005

*An Affiliate (1963) of the American Association of Petroleum Geologists (AAPG)*

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Dear Society Members,

Our next meeting will be held at the Easton Hilton, Columbus, Ohio on Wednesday, March 23rd. Neeraj Gupta will be giving a talk on "Storage of CO<sub>2</sub> in Geologic Reservoirs – an Opportunity for Ohio's Oil and Gas Industry".

We hope to see you there!

**REDUCED PRICE!! - OGS 10. The Ohio Geological Society anthology, the Morrow County, Ohio "oil boom" 1961-1967 and the Cambro-Ordovician reservoir of central Ohio**, edited by William E. Shafer. 452 p., 1994. ~~\$65.00~~ **\$25.00** (M: ~~\$55.00~~) (M: **\$20.00**). To order, call or write The Geologic Records Center, Ohio Geological Survey, 2045 Morse Rd., Bldg. C1, Columbus, OH 43229-6693. Telephone (614) 265-6576. E-mail: [geo.survey@dnr.state.oh.us](mailto:geo.survey@dnr.state.oh.us).

Ohio Geological Society  
P.O. Box 14304 · Columbus, OH 43214  
<http://www.ohgeosoc.org/>

# OGS MEETING

Wednesday, March 23<sup>rd</sup>

4 pm

Juniper Room A

Easton Hilton  
Easton Town Center  
Columbus, OH

[www.columbusoh.hilton.com](http://www.columbusoh.hilton.com)

## **Storage of CO<sub>2</sub> in Geologic Reservoirs – an Opportunity for Ohio's Oil and Gas Industry**

Neeraj Gupta

Research Leader, Battelle

505 King Ave., Columbus, Ohio 43201 USA

Phone: 614-424-3820, E-Mail: [gupta@battelle.org](mailto:gupta@battelle.org)

Capture of CO<sub>2</sub> and its storage in the geologic reservoirs for the greenhouse gas mitigation has become a subject of intense interest in recent years. Major geologic reservoirs include the oil and gas fields or coal seams for enhanced energy production and the deep saline reservoirs for direct storage. Sedimentary formations, such as the Mt. Simon Sandstone, in the Ohio River valley and midwestern states underlie a large number of power plants and other industrial sources of CO<sub>2</sub> emissions. While the regional-scale estimates of storage capacity are very promising, the capacity and injectivity at specific locations can only be determined through site-specific characterization and consideration of regulatory, technical, logistical, and economic constraints. This presentation will describe ongoing field research to evaluate the feasibility of storing CO<sub>2</sub> in these formations. The Ohio River Valley CO<sub>2</sub> storage project, sponsored by the U.S. DOE, American Electric Power, BP, The Ohio Coal Development Office (OCDO) of the Ohio Air Quality Development Authority, Battelle, Pacific Northwest National Laboratory, and Schlumberger, addresses the site-specific and sub-regional scale sequestration issues by conducting detailed site characterization for determining geologic sequestration potential at a power plant. This assessment includes seismic survey, drilling and testing of a 9,200 ft deep borehole, state-of-the-art wireline logging, and using the field data to develop options for demonstrating CO<sub>2</sub> sequestration at the site. The findings of the site assessment and its implications for CO<sub>2</sub> sequestration in the wider region will be presented. The available data also show that the sequestration potential across the region is highly variable. This regional variability is being addressed as part of a parallel project under the Midwest Regional Carbon Sequestration Partnership ([www.mrcsp.org](http://www.mrcsp.org)) being sponsored by DOE, OCDO, and a number of other institutional and industrial partners. Finally, the ongoing and future efforts in the CO<sub>2</sub> storage research have a strong role for the regional oil and gas industry. For example, the ongoing oil and gas drilling in the region provides an opportunity to obtain geologic data from formations of interest for sequestration. This in turn will help to improve the geologic understanding of the Appalachian Basin and Midwestern region and assist the oil and gas companies in their exploration efforts and potentially in evaluating the enhanced oil recovery options.

The research presented here brings together the efforts of several organizations and individuals, including the Battelle (Phil Jagucki, Joel Sminchak, Danielle Meggyesy, Jim Dooley etc.), Ohio Division of Geological Survey, distinguished members of Ohio Geological Society (William Rike, John Forman, and Amy Lang), Schlumberger, AEP, and BP.

*Welcome to the  
Ohio Geological Society's  
7th Annual Winter Gala*





AAPG Eastern Section 2005 Meeting

**Call for Papers**

Abstracts are due by April 1, 2005.

[www.wvgs.wvnet.edu/www/esaapg05/callforpapers.html](http://www.wvgs.wvnet.edu/www/esaapg05/callforpapers.html)

**CALENDAR**

Information available for OGS meetings at: [www.ohgeosoc.org](http://www.ohgeosoc.org)  
or contact Nicole Venteris at [knoxnicole@yahoo.com](mailto:knoxnicole@yahoo.com), 740-927-6731.

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|-----------------|--|
| March 8         | PTTC Workshop – “Basic Carbonate Geology”, Holiday Inn-Meadow Lands, Washington, PA. <a href="http://karl.nrcce.wvu.edu/">http://karl.nrcce.wvu.edu/</a> or 304-293-2867, x5446.                               |
| March 18        | PTTC Workshop – “Michigan Field Experiences -- Focus on the Antrim”, Holiday Inn, Mt. Pleasant, Michigan. 269-387-8633.  |
| March 23        | OGS Meeting, Easton Hilton, Columbus, OH.  |
| March 23-25     | OOGA Annual Winter Meeting, Easton Hilton, Columbus, OH. <a href="http://www.ooga.org">www.ooga.org</a> or 740-587-0444.   |
| April 21        | OGS Luncheon Meeting, Ramada Plaza Hotel, Columbus, OH.  |
| May 20          | Hog Roast/Historical Oil & Gas Talk Extravaganza   |
| June 19-22      | AAPG 2005 Annual Convention, Calgary, Alberta, Canada. <a href="http://www.aapg.org/calgary/index.cfm">http://www.aapg.org/calgary/index.cfm</a> or 800-364-AAPG.  |
| September 18-20 | AAPG Eastern Section 2005 Meeting, Radisson Waterfront Hotel and Conference Center, Morgantown, WV. <a href="http://www.wvgs.wvnet.edu/www/esaapg05/index.html">www.wvgs.wvnet.edu/www/esaapg05/index.html</a> |

Check the OGS website at <http://www.ohgeosoc.org/otherevents.html> or the PTTC website at <http://karl.nrcce.wvu.edu/> for other meetings and events.