



THE OHIO GEOLOGICAL SOCIETY



The Newsletter of the Ohio Geological Society

April 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 Ramada Plaza Hotel, Columbus, Ohio on Thursday, April 21st. Larry Wickstrom, Erik Venteris, Ernie Slucher, Jim McDonald, and Joe Wells will present "A first look at regional geologic maps from recent CO₂ sequestration characterization research".

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.

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

OGS MEETING

Thursday, April 21st

Lunch at Justin's Place at 11:30, talk at 12:30 pm.

Please RSVP for lunch no later than April 20th to Nicole Venteris at knoxnicole@yahoo.com or 740-927-6731.

Ramada Plaza Hotel
4900 Sinclair Road
Columbus, OH 43229
614-846-0300

<http://www.ramadahotelcolumbus.com/>

A first look at regional geologic maps from recent CO₂ sequestration characterization research

Larry Wickstrom, Erik Venteris, Ernie Slucher, Jim McDonald, and Joe Wells
Ohio Geological Survey

Society needs to rapidly develop carbon sequestration technologies to meet the increasing demand for electricity from fossil fuels without further contributing to greenhouse gas concentrations. Low emission, coal-burning power plants coupled with CO₂ capture and sequestration are a promising approach to meeting these seemingly divergent goals. Captured CO₂ may be injected into geologic formations as waste or used as a beneficial product in enhanced oil recovery or coal bed methane operations. The Ohio Division of Geological Survey has been working with various partners on different aspects of geologic CO₂ sequestration for 5 years. Currently, the Survey is geologic task leader as part of the Midwest Regional Carbon Sequestration Partnership (MRCSP), which is a broad consortium involving Battelle, private and public stakeholders in the energy sector, universities, and state geological surveys from seven states. The MRCSP is charged with studying a wide range of scientific and social issues pertaining to carbon sequestration. Specifically, the state geological surveys of IN, KY, OH, PA, WV, MD and the Core Research Laboratory of Western Michigan University have been tasked with creating regional geologic maps of the seven state region. The mapping is designed to provide the necessary data for the spatial modeling of CO₂ storage capacity. A multi-state stratigraphic correlation model has been developed to identify injection targets and confining strata. Digital maps of structure, thickness, salinity, porosity, temperature, and pressure were made for these target layers. A detailed, digital oil and gas pools map was created for the entire region. Coal depth and thickness maps were developed as well. The new work presents an exciting new look at the broad geology of the Appalachian, Michigan and Illinois basins. This is the first time many of these geologic units/intervals and themes have been mapped in detail across the area.

The Ohio Academy of Science

57th Annual State Science Day

May 7, 2005

French Field House and St. John Arena

JUDGES NEEDED!

Please contact John Forman at jforman@att.net or 614-939-2392.

State Science Day is the pinnacle of student originated, inquiry-based science education for Ohio's students.



What is State Science Day?

For over 50 years--and now with more than 45,000 alumni--State Science Day is the pinnacle of student originated, inquiry-based science education for Ohio's students. The academic equivalent of a State athletic championship, this year's event is the largest of its kind in the nation. Drawing upon an annual base of over 30,000 students at more than 1,000 local school science days or science fairs, more than 1,000 students in grades 7-12 from nearly 300 schools will be evaluated this year on their scientific research and communication skills, and will compete for more than 100 different scholarships and awards valued at more than \$1,500,000. Both individual and team student research projects will be recognized. Each year the Ohio Geological Society presents a GEOLOGICAL AWARD to the 6 best projects in the geological sciences in the form of cash and certificates of merit.

WV Geological & Economic Survey Releases Publication of Well Data

The West Virginia Geological and Economic Survey (WVGES) is making available for purchase a digital publication of its oil and gas well data on CD, as a tool to aid in the exploration and development of the Mountain State's oil and gas resources and the understanding of the State's subsurface geology.

Developed over the past 39 years, the Survey's digital database of more than 138,000 completed and permitted oil and gas wells contain data for wells completed in West Virginia since the late 1800's. The digital database was originally created by WVGES staff primarily to support the research and information programs of the Survey, and secondarily to support information requests from the public. Now, the Survey is releasing the data to help develop a better understanding of the subsurface geology of the State and to encourage a more active pursuit of exploratory and development drilling programs in the State. It can be used to support industry, government, and public needs for geologic, geographic, and production data for oil and gas wells in the State.

Released as Digital Data Series-5 (publication DDS-5), "**WVGES Oil and Gas Well Data for West Virginia,**" these files were designed to be used in a relational database system. The files, however, can be adapted for use in other types of systems or used individually. The publication contains eight ASCII files, with coded data fields translated: well locations; well completion and ownership; pay, show, and water intervals; stratigraphic tops and thicknesses; plugging; production reported since 1979; e-logs available in the Survey's log library; and well samples and cores available in the Survey's sample library. The ASCII files total more than 422MB of data. Record formats for the data files and a "ReadMe" file are provided in PDF format. The same basic well data are also provided in the publication in a generic Microsoft® Access database format.

Cost of the publication is \$495. This includes postal delivery via first class U.S. mail; shipment via other means is available for an additional charge. Credit cards (VISA and MasterCard) are accepted. Periodic updates to the electronic publication are planned and will be available at a reduced price.

To order, contact Susan Kite at (304)594-2331. For further information, visit the agency's web site (www.wvgs.wvnet.edu) or contact Katharine Lee Avary or Mary Behling at the same phone number.

CALENDAR

Information available for OGS meetings at: www.ohgeosoc.org
or contact Nicole Venteris at knoxnicole@yahoo.com, 740-927-6731.

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| 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.
http://www.aapg.org/calgary/index.cfm or 800-364-AAPG. |
| September 11-14 | TSOP 2005 Meeting, Brown Hotel, Louisville, KY. http://igs.indiana.edu/tsop2005
or 859-257-0261. |
| September 18-20 | AAPG Eastern Section 2005 Meeting, Radisson Waterfront Hotel and Conference
Center, Morgantown, WV. www.wvgs.wvnet.edu/www/esaapg05/index.html |

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.