



# THE OHIO GEOLOGICAL SOCIETY



The Newsletter of the Ohio Geological Society

May 2010

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

## 2009-2010 Officers

### **President**

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### **Vice President**

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### **Secretary**

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### **Treasurer**

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## The Ohio Academy of Science State Science Day

**May 8, 2010**

The Ohio State University  
Columbus, Ohio



Each year the Ohio Geological Society presents a GEOLOGICAL AWARD to the best projects in the geological sciences in the form of cash and certificates of merit.

We are still looking for judges. If interested, please contact John Forman at [JLForman@att.net](mailto:JLForman@att.net) or 614-440-6465.



# OGS Meeting

**Friday, May 14<sup>th</sup>**

12:00 pm, lunch will be provided

Horace R. Collins Laboratory  
3307 South Old State Road  
Delaware, OH 43015

Please RSVP to Steve Zody at  
[zodyoil@sssnet.com](mailto:zodyoil@sssnet.com) or 330-262-4323

Dennis Prezbindowski PhD, CPG,  
Petroleum Consulting, Inc., 16 EMS-D Lane 13, Syracuse, Indiana 46567

## ***Carbonate Sequence Stratigraphy – What is it? Can it help us find more oil and gas?***

Carbonate sequence stratigraphy is an investigative process and conceptual framework that integrates time, relative sea-level changes and variations in carbonate productivity and deposition to construct predictive four dimensional models of carbonate and carbonate/clastic sediment packages. The foundation of modern sequence stratigraphy can be traced to Sloss's (1963) concept of broad unconformity bound stratigraphic packages of sedimentary rocks that can be correlated over long distances. Increased usage and improvements in seismic imaging in the 1970's helped to refine Sloss's unconformity bound stratigraphic concepts. This approach formed the basis of seismic stratigraphy. Seismic stratigraphy allowed the development of detailed intrabasinal stratigraphic frameworks that increased our understanding of basin infilling and the importance of relative sea level changes on sedimentation patterns. Higher resolution stratigraphic studies of the 1980's using well logs, rock material and outcrop analogs, commonly within a seismic stratigraphic framework, served as the basis for modern sequence stratigraphy. Modern day carbonate sequence stratigraphy has demonstrated its ability to help define reservoir flow units in currently producing reservoirs and to assist in the prediction of potential offset shifts in reservoir facies due to past relative sea level changes. One does not have to be an experienced sequence stratigrapher to successfully utilize sequence stratigraphic concepts to enhance your exploration success in carbonates.

Dennis is the principle consulting geologist with Petroleum Consulting, Inc. He assists exploration and production companies with carbonate and mixed carbonate/clastic exploration and development projects. Dennis earned his BS degree in Geology from Indiana University at Fort Wayne, Indiana (1973); his MS degree in Geology from Michigan State University (1974) and a PhD in Geology from The University of Texas at Austin (1981). He has worked as a research geologist for Cities Service and Amoco Production Company and has taught AAPG short courses on carbonate geology and reservoir characterization. He has published extensively and is a member of AAPG and other professional organizations. Dennis left the Texaco Middle East business unit as a Senior Reservoir Associate that specialized in characterizing carbonate reservoir systems for exploration and reservoir development projects and returned to live in the Midwest in 2002. He has over 30 years of world wide experience in working carbonate reservoirs around the world and is a certified professional geologist and a certified petroleum geologist.



# THE OHIO GEOLOGICAL SOCIETY

## ***Official Ballot***

### ***2010 – 2011 Officer Slate***

<b><u>Position</u></b>	<b><u>Nominated</u></b>	<b><u>Write-In</u></b>
President	John Wicks	_____
Vice President	Bill Arnholt	_____
Secretary	Amy Lang	_____
Treasurer	Alison Nutter	_____
Trustee 2010 - 2014	Steve Zody	_____
Trustee 2010 - 2014	Nicole Venteris	_____

**Vote (circle) for not more than one in each position.**

Please return ballot by May 27<sup>th</sup> to:

**Ohio Geological Society  
P.O. Box 14304  
Columbus, OH 43214**

Dalton Boggs & Associates is conducting a search for a highly qualified Geologist for a privately held Denver, Colorado company that engages in the acquisition, exploration, production and disposition of oil and gas properties in the Permian Basin. This is an opportunity to participate in royalty trust and profit sharing.

This client is looking for a proven prospect generator with a strong track record, and a minimum of 10 years of Permian Basin experience. Experience with a major oil company is a plus. The right individual can work remotely with the Denver office.

The compensation package is competitive and includes a comprehensive benefits package. Details will be provided at the appropriate time.

Dalton Boggs  
Dalton Boggs & Associates  
PO Box 2288  
Edmond, OK 73083  
800-348-1654  
Fax 405-348-1693  
[daltonb@daltonboggsassociates.com](mailto:daltonb@daltonboggsassociates.com)

Need to hire one Junior and one Senior Geologist with around 5 years experience in Shale or Tight Gas Sands. They will work with a major global E&P company that has over 800K acres in the Marcellus. These are permanent jobs with paid relocation and the highest salaries in the oil industry.

Howard Frankel  
(713) 666-9993  
[H.Frankel@Comcast.Net](mailto:H.Frankel@Comcast.Net)  
<http://www.linkedin.com/in/howardfrankel>

## **USGS Vacancy Announcement for a Petroleum Engineer**

The petroleum engineer will be part of a team working on the USGS geologic carbon dioxide sequestration assessment. The job is open for 30 days (April 6, 2010-May 7, 2010). You can view the vacancy announcement by clicking the following link:

<http://jobview.usajobs.gov/GetJob.aspx?JobID=87302481&JobTitle=Petroleum+Engineer%2c+GS-0881-13%2c+DEU-BAR&q=ER-2010-0207&where=&brd=3876&vw=b&FedEmp=Y&FedPub=Y&x=0&y=0&AVSDM=2010-04-06+10%3a26%3a00>

**55<sup>th</sup>  
Midwest Ground Water Conference  
October 4–7, 2010  
Columbus, Ohio**

**Call for Abstracts**

Oral presentations or posters

Submit abstracts online

Deadline: June 25, 2010

For additional information about program format and abstract submission:

[www.dnr.state.oh.us/MWGPC2010/](http://www.dnr.state.oh.us/MWGPC2010/)

## **Welcome New Member!**

Suzanne D'Souza

Historical Information Gatherers, Inc.

Hopkins, MN

# OGS APRIL MEETING PHOTOS





Society of Petroleum Engineers  
Ohio Petroleum Section in Conjunction With SPE's 2009-10  
Distinguished Lecturer Series Presents:

Ben W. Ebenhack, University of Rochester  
Speaking On:  
**“Preserving and Extending the Energy Advantage”**

May 11<sup>th</sup>, 2010

“The idea is that energy from petroleum has made it possible for half of humanity to enjoy a high quality of life, and it is now time to extend the energy advantage to the other half. How to provide modern energy services to an additional three billion people while protecting environmental balances is perhaps the greatest challenge of our time. This lecture explores the vital role that oil and gas has played and will continue to play in providing energy to the world's burgeoning masses.

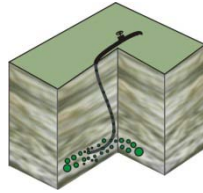
This lecture explores the value that petroleum provides, how it compares with other proven and emerging technologies, and why it is important to make modern energy available to all people in current and future generations.”

For twelve years, **Ben Ebenhack** had a distinguished career with Union Oil Company of California as a log analyst, research engineer, and reservoir engineer. In 1987, he founded AHEAD Energy Corporation. He has spent the last 20 years demonstrating the importance of working at the nexus of resource development, human development, and environmental protection. He has educated scores of adults and youth via classes, community presentations, public debates, and radio and TV appearances on the impending global energy transition. He is currently a senior lecturer in the Chemical Engineering Department at the University of Rochester, board chairman of AHEAD Energy Corporation, and principal investigator for the Sustainability and Global Energy Systems (SAGES) Project.

We plan to meet for lunch at 11:30 am at The Pro's Table located at 878 E High Ave in New Philadelphia on **Tuesday**, May 11<sup>th</sup>, 2010. The cost of lunch will be \$20 per person. You need not be a member of SPE to attend (but you may be encouraged to join!).

**Please RSVP by Monday, May 10<sup>th</sup>, 2010 by contacting Sharon Davis, EnerVest Operating LLC at 330.587.1019 or via e-mail at [sdavis@enervest.net](mailto:sdavis@enervest.net).**

# Invitation to Present, Sponsor, and Attend



## Geologic Carbon Sequestration Site Integrity: Characterization and Monitoring Science and Technology

**Steering Committee: Jeff Daniels (OSU), Doug Alsdorf (OSU), Gary Spitznogle (AEP), Neeraj Gupta (Battelle), Scott Miller (Ohio University)**

Regulatory approval and long-term sustainability of geologic carbon sequestration sites depends upon the ability to characterize the subsurface and ensure the integrity of the geology, water, and air in the vicinity of an injection site. The Institute for Energy and Environment at the Ohio State University is hosting a workshop on geologic carbon sequestration site monitoring. The management framework and costs will be similar to the 2009 workshop entitled “Advancing the Science of Geologic Carbon Sequestration” ([http://www.earthsciences.osu.edu/~jeff/carbseq/carbseq\\_2009/2009\\_page.html](http://www.earthsciences.osu.edu/~jeff/carbseq/carbseq_2009/2009_page.html)). The two-day meeting will be held at the Blackwell Hotel, June 7-8, 2010. We anticipate an attendance of approximately 150 people, including 25 presenters. For more information about the upcoming workshop, go to

[http://www.earthsciences.osu.edu/~jeff/carbseq/Carbseq\\_2010/2010\\_Workshop.html](http://www.earthsciences.osu.edu/~jeff/carbseq/Carbseq_2010/2010_Workshop.html)

### Expected Workshop Outcomes:

1. A framework for suggested operational guidelines to monitor geologic and hydrologic conditions at CO<sub>2</sub> injection sites.
2. A statement of technical needs and imperatives for site monitoring.
3. A review of the state-of-the-art and state-of-the-practice of site monitoring.
4. Identification of knowledge gaps and a proposed path to fill the gaps.
5. A web-based record of the proceedings of the meeting.
6. Formulation of an informal summary document for the meeting.

### Workshop Sessions:

- I. Needs and Requirements for Site Monitoring
- II. Chemical Monitoring (tracers, sniffers, direct sampling)
- III. Hydrologic Monitoring (plume and transport sampling and monitoring, groundwater protection)
- IV. Geophysical Imaging and monitoring of the plume, reservoir, caprock, and fracture system
- V. Induced physical hazard monitoring (microseismicity, precision ground disturbance, etc.)

**Presenters, sponsors, and participants should contact Jeff Daniels ([daniels.9@osu.edu](mailto:daniels.9@osu.edu), Ph:614-292-6074, or cell:614-620-3272) for more information. Pre-approved travel funds are available for key presentations.**

**Groups and organizations interested in co-sponsoring this event are encouraged to contact Jeff Daniels for information regarding the opportunity to support this important workshop.**



**The Ohio Geological Society**  
P.O. Box 14304  
Columbus, OH 43214  
[www.ohgeosoc.org](http://www.ohgeosoc.org)

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Jim McDonald

## CALENDAR

- May 8 State Science Day  
The Ohio State University, Columbus, OH  
[www.ohiosci.org](http://www.ohiosci.org)
- May 14 **OGS Meeting**  
*Carbonate Sequence Stratigraphy - What is it? Can it really help us find more oil and gas?*  
Dennis Prezbindowski – Petroleum Consulting, Inc.  
Horace R. Collins Laboratory, Delaware, OH  
[www.ohgeosoc.org](http://www.ohgeosoc.org)
- May 11 SPE Meeting  
*Preserving and Extending the Energy Advantage*  
Ben Ebenhack – University of Rochester  
The Pro's Table, New Philadelphia, OH  
[ohio.spe.org](http://ohio.spe.org)
- May 12 MBGS Meeting  
*Trenton/Black River Exploration and Development in Southern Michigan*  
Murray Matson – West Bay Exploration Company  
Michigan State University, East Lansing, MI  
[www.mbgs.org](http://www.mbgs.org)
- May 20 PAPG Meeting  
*Petrophysics, Stratigraphy, and Depositional Dynamics of the Middle Devonian, Marcellus Interval in West Virginia and Southwest Pennsylvania*  
Matt Boyce – West Virginia University  
Radisson, Green Tree, PA  
[www.papgrocks.org](http://www.papgrocks.org)
- August 1-3 OOGA Summer Meeting  
Sawmill Creek Resort, Sandusky, OH  
[www.ooga.org](http://www.ooga.org)
- September 16 OGS Golf Outing  
Chapel Hill Golf Course, Mount Vernon, OH  
[chapelhillgolfcourse.com](http://chapelhillgolfcourse.com)
- September 25-29 ES AAPG Meeting  
Radisson Plaza Hotel & Suites, Kalamazoo, MI  
[aapgesmeeting2010.mbgs.org](http://aapgesmeeting2010.mbgs.org)

Visit [www.ohgeosoc.org](http://www.ohgeosoc.org) for all upcoming events

## Ohio Geological Society Publications

The in-print publications of the Ohio Geological Society may be purchased from the Ohio Division of Geological Survey. Members of the Society receive a discount; the member price is in parentheses (M:). For more information on the Society, write the Ohio Geological Society, P.O. Box 14304, Columbus, OH 43214.

**OGS 4. Clinton sandstone papers presented at the Ohio Oil and Gas Association Winter Meetings 1961 to 1978** (abridged reprint of 1980 volume). 228 p., 1985. \$25.00 (M: \$20.00).

**OGS 5. The new Clinton collection--1985**, edited by Jack Gray, Andy Maslowski, Warren McCullough, and W. E. Shafer (2nd printing). This edition includes a transcript of "Deeper Clinton-Medina drilling in southeastern Ohio" from a March 1986 Ohio Geological Society meeting. 257 p., 1985. \$25.00 (M: \$20.00).

**OGS 7. Computer-aided analysis of geologic data**, edited by Lawrence H. Wickstrom. A collection of papers from a seminar presented at the 1987 AAPG Eastern Section meeting. 100 p., 1987. \$15.00 (M: \$12.00).

**OGS 8. Maps and cross sections of the Cambrian and Lower Ordovician of central Ohio**, by G. G. Shearrow. 31 p., 8 pls., 1987. \$12.00 (M: \$10.00).

**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. \$25.00 (M: \$20.00).

**OGS 14. Ohio Geological Society Fifth Annual Technical Symposium.** Proceedings from the November 1997 technical symposium held in Akron, Ohio. 11 papers. 117 p., 1997. \$25.00 (M: \$20.00).

**OGS 15. Petroleum seismology in the digital age.** Course notes from the Ohio Geological Society's 3-D Seismic Seminar presented at the 1998 AAPG Eastern Section meeting. \$20.00 (M: \$15.00).

**OGS 17. Into the new millennium: The changing face of exploration in the Knox play.** Proceedings from the Sixth Annual Fall Symposium held in Akron, Ohio, October 1999. 16 papers. 120 p., 1999. \$25.00 (M: \$20.00).

To order any of the Society's publications contact: The Geologic Records Center, Ohio Division of Geological Survey, 2045 Morse Road, Columbus, Ohio 43229-6693. Telephone (614) 265-6576.  
FAX: (614) 447-1918. E-mail: [geo.survey@dnr.state.oh.us](mailto:geo.survey@dnr.state.oh.us).