



# THE OHIO GEOLOGICAL SOCIETY

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

The Newsletter of the Ohio Geological Society

May 2003

## 2002-2003 Officers

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## President's Column

Thanks to Greg Mason for sharing his insightful look at a very strange structure.

As this will be my last column before handing all over to a new president, Mr. Jason Henthorne, I would like to thank those members, speakers, and especially those on the executive committee who made it much easier for me during the past year.

We were able to assemble a slate of knowledgeable speakers whose talks advanced our knowledge of geology, and whose audiences experienced networking opportunities. Our speaker meetings are one of the principle core values a membership in the Society.

It takes a great amount of time and effort to keep the Society a viable organization that benefits the community, members, and the profession. But it is worth it. Let's continue to renew our membership and bring in new members so that the Society may continue to build on what we currently have.

Also, please continue your support with new slate of officers for next year. The official ballot is enclosed in this newsletter. They are already working on new ideas to engage our members. From moving some monthly meetings into the regions, luncheons, and of course gearing up for the 2004 Eastern Section Meeting hosted by the Society in Columbus.

This month, Kerry O'Shea will travel to Columbus from London, Ontario to talk about the detailed environmental assessment completed on Talisman's Lake Erie oil & gas operations.

I look forward to seeing you soon!

Ron Rea

## **OGS MEETING May 21<sup>st</sup>, dinner 5:30, talk at 7:00 p.m.,**

Ramada Plaza Hotel, 4900 Sinclair Rd., Columbus

Please RSVP for dinner no later than Tuesday 5pm May 20<sup>th</sup> to Jason Henthorne (330) 264-4454 or [jason@petroevaluation.com](mailto:jason@petroevaluation.com).

**DIRECTIONS:** The meeting will be in a board room (the Columbus Room) at the Ramada Plaza Hotel, 4900 Sinclair Rd., Columbus, OH 43229, (614-846-0300). From southbound I-71 the exit 116 ramp ends at Sinclair Rd, turn right to the hotel entrance. From northbound I-71 take Exit 116 and turn left (on Morse Rd), go under the freeway (stay right) to the first street, Sinclair Rd., turn right, hotel is one block up on the right. Hotel Visible from I-71!

### **Environmental Review of Natural Gas Production in Lake Erie**



Kerry O'Shea, M.Sc., F.G.A.C.  
Senior Environmental Consultant  
Dillon Consulting Limited

Natural gas has been extracted from Silurian aged Formations beneath Lake Erie since 1913 when Glenwood Natural Gas Company Ltd. Drilled 320 feet off-shore in Romney Township. The first off-shore gas field was produced by Union Gas with the Tilbury field near Port Alma, Ontario. The first gas wells were drilled in shallow water, from ice based platforms close to shore. Since then, approximately 2,000 gas wells have been drilled on the Canadian side of Lake Erie. Currently, 550 wells are in production, and a further 180 shut-in or suspended. The rest of the wells have been abandoned. The gas wells are connected through a series of small diameter pipelines to various shore installations, where the gas is treated, if necessary, and put into the Union Gas and the Enbridge Consumers Gas distribution networks for sale to Ontario consumers. Off-shore natural gas production accounts for 75% of the total natural gas produced in Ontario. Oil is produced from deep formations beneath the Lake from on-shore wells that have been drilled using horizontal well technology. No oil is produced from wells drilled on the Lake.

In 2001 an independent environmental review was completed for the Ontario Lake Erie gas operations. The review included a detailed examination of drilling and production activities, including waste management, composition and handling of drilling muds and cuttings, emergency response plans and training, spill response and notification procedures, pipeline monitoring programs and procedures, dive programs and environmental condition of relevant on-shore infrastructure. The assessment was facilitated through on-site environmental inspections of drilling, completions and on-Lake operational procedures. This included inspections of a drilling barge (the Mr. Chris), a completions barge (the Miss Libby), a dive boat, and one of the supply vessels. The assessment included collecting and analyzing effluents and drill cuttings, and Lake bottom sediments to determine potential effects of operations on macro-invertebrate populations. Analytical results were examined in light of published regulations and guidelines, and evaluated in terms of potential impact to the Lake environment.

The presentation will focus on the results of the 2001 review.

Kerry O'Shea is a Senior Environmental Consultant with Dillon Consulting Limited. He has 15 years of experience in the environmental field, and has worked extensively with the Oil and Gas Industry in Ontario. He is currently on the Board of Directors of the Ontario Petroleum Institute and has made numerous presentations to the industry on environmental matters affecting the exploration, development and production of oil and gas in Ontario.

The U.S. Department of Energy's Office of Fossil Energy is inviting the fossil fuel research community to nominate candidates for the **2003 Homer H. Lowry Award**. The award recognizes outstanding scientific and technological achievements in coal, petroleum, or natural gas. The deadline for receiving nominations is June 13, 2003. The winner will be announced this fall.

For more details, link to the U.S. Department of Energy's Fossil Energy web site at: <http://www.fossil.energy.gov>

### **Well Log Interpretation and Reservoir Characterization of Carbonate Reservoirs in the Appalachian Basin**

The Ohio Geological Society is planning, in conjunction with the fall OOGA meeting, a full day well log interpretation workshop on **October 6<sup>th</sup>, 2003** at the Easton Hilton in Columbus, OH. Dan Hartman (DJH Energy Consulting) will be conducting a hands-on workshop to demonstrate that with an understanding of rock type, saturation models, and elevation of rocks in the hydrocarbon column, we can forecast performance. Mark your calendar for this event.

Dan received his B.S. in geology from New Mexico Tech in 1963, and has worked in various capacities in exploration for Pan American Petroleum and Mitchell Energy Company. He started DJH Consulting in 1985 which specializes in exploration/exploitation consulting and education for the oil industry.

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## **2003 State Science Fair**

OGS Officers, Trustees, other officials and State Science Day Judges: As you all know, the 2003 Ohio State Science Day was at The Ohio State University again this year on Saturday, May 3. The Ohio Geological Society made the following awards to the students listed below for their projects. I'd like to thank Jim McDonald and Bill Shafer for judging with me again this year. Ohio's State Science Day remains the largest in the nation with over 100 sponsors and \$654,210 in scholarships, trips, cash and bond prizes for the students this year. There was a tie for second place this year (three judges with total points of 102 for each project-has never happened before!!) and therefore two Second Place Awards were given each with a \$100 cash prize. If there is a problem with the extra \$25, let me know and I'll donate it to the society.. John L. Forman

Ralph J. Bernhagen Award (1st Place - \$200) to **Jeannette L. Bauer** for "*Condodonts: the Age Old Question*," a 12th grader from Clay High School in Portsmouth.

2nd Place Award of \$100 to **Kathleen M. Babcock** for "*What Preserves Dinosaur Skin?*" a 7th grader from St. Andrew Elem. School in Columbus.

2nd Place Award of \$100 to **Andrew R. Rea** for "*Soil Liquefaction During Earthquakes*," a 7th grader from Dempsey Middle School in Delaware.

4th Place Award of \$50 to **Paul T. Kanney** for "*Soil Savers*," a 7th grader from Shiloh Middle School near Shelby

Honorable Mention Certificate to **Chris M. Schneider** "Does Water Affect the Coalification Process?" a 7th grader from Willard Grizzell Middle School in Dublin

Honorable Mention Certificate to **Jessica E. Schucht** "pH Puzzle," a 7th grader from New Covenant Academy in St. Clairsville



# THE OHIO GEOLOGICAL SOCIETY

## *Official Ballot*

### *2003-2004 Officer Slate*

<u>Position</u>	<u>Nominated</u>	<u>Write-In</u>
President	Jason Henthorne	_____
Vice President	Nicole Venteris	_____
Secretary	Peter MacKenzie	_____
Treasurer	Donald Jennings	_____
Trustee 2003-2007	James McDonald	_____

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

Please return ballot to:

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

**BALLOTS RECEIVED AFTER May 30, 2003 WILL NOT BE COUNTED.**

# 2003

## CALENDAR

### Ohio Geological Society Meetings

Ramada Plaza Hotel, 4900 Sinclair Rd., Columbus  
5:30 p.m. dinner, 7 p.m. happy hour, Presentation at 7:30 p.m.  
for more information contact the prez, [ron.rea@dnr.state.oh.us](mailto:ron.rea@dnr.state.oh.us)

May 21 Kerry O'Shea "Environmental Review of Natural Gas Production in Lake Erie"

Other meetings or events of note (from the PTTC website <http://karl.nrcce.wvu.edu/calander>).

- May 10 AGS Field Trip, Ordovician Fossils of Kentucky, info and registration call Jim Templin 304-353-5210 or [jtemplin@nisource.com](mailto:jtemplin@nisource.com)
- May 11-14 AAPG Annual Meeting, Salt Lake City, UT, info and registration is now available [www.aapg.org](http://www.aapg.org)
- May 16 Kentucky Geological Survey 43<sup>rd</sup> Annual Meeting, Lexington, KY. Contact Carol Ruthven at (859) 257-5500 ext 128 or by email [cruthven@kgs.mm.uky.edu](mailto:cruthven@kgs.mm.uky.edu) on the web at <http://www.uky.edu/KGS/announce/index.htm>
- June 3 PTTC Workshop, Holiday Inn, Washington, PA, Solving Production Problems Related to Paraffin, Asphaltene and Scale, more info at PTTC <http://karl.nrcce.wvu.edu> on the Workshops page.
- June 4-5 Tennessee Oil & Gas Association, Cedar Bluff Holiday Inn, Knoxville, TN. Call 615-263-1291
- June 23-25 Kentucky Oil & Gas Association, Seelbach Hilton, Louisville, KY. Call 502-226-1955 or [kvoilgas@mis.net](mailto:kvoilgas@mis.net).
- Sept 6-10 AAPG-SPE Eastern Meeting, Hilton Hotel, Pittsburgh, PA, [www.aapg-spe-2003.org](http://www.aapg-spe-2003.org)



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