



THE OHIO GEOLOGICAL SOCIETY



The Newsletter of the Ohio Geological Society

April 2012

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

2011-2012 Officers

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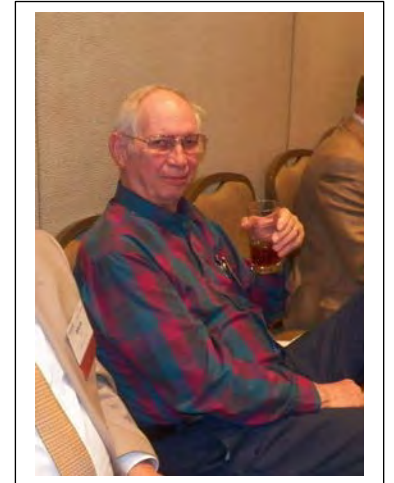
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OGS March Meeting....



FIRST POINT PLEASANT PRODUCTION RESULTS RELEASED

OGS APRIL MEETING TO FEATURE GARY PERRY SPEAKING ON THE IMPACT OF FAULTS ON FRACING

Happy springtime to all!

Our meeting last month at the OOGA Winter Meeting drew record attendance. By all accounts, Matt Hammond's talk was informative and stimulating. The talk could be described as a "broad overview," and I particularly appreciated his frac slides. Chesapeake controls 1.3 million net acres in the Ohio Utica play, 490,000 of which they consider in the "core" of the play. According to Matt, Chesapeake's leasehold accounts for one-half of the Utica/Point Pleasant productive acreage. This was a surprise since Wickstrom reported 10 million potential productive acres in the Utica/Point Pleasant of Ohio and leasing by at least 20 companies would support his interpretation. Only time will tell.

The highlight of new production data released this month, is Chesapeake's Buell 8H in Harrison County which reported more than 1.5 BCF of gas and 13,500 bbl of oil over 198 days. Chesapeake released production on 9 wells in Carroll, Harrison, Mahoning and Portage counties.

You will not want to miss this month's OGS meeting on April 21st when Gary Perry of Geotrace, will be giving a presentation entitled: *Detecting faults and fractures that you couldn't see before and their impact on fracing and injection decisions*. This is a very timely and practical topic particularly for those interested in fracture design and engineering. Please RSVP early if you plan to attend so we can reserve the appropriate sized room and buffet lunch. Contact Bill Arnholt for a reservation at (614) 457-1024 or barnholt@northwoodenergy.com. Further details on the meeting are provided elsewhere in this newsletter.

State Science Day will be held Saturday, May 5th at the French Field House on the campus of The Ohio State University. OGS sponsors some of the awards and pays out over \$1,000 in prize money to authors of worthy geoscience projects. We are looking for a few good people within our ranks to decide how to distribute the prize money. Take this opportunity to see firsthand the geoscientists of the future and witness the extraordinary creativity of young minds. Please don't hesitate to contact Amy Lang to sign up as a judge (amy.lang@formanenergy.com). We really need your help!

For those who missed last month's thank you letter from ODNR Division of Geological Survey Chief Larry Wickstrom, OGS donated \$6,500 recently to the HR Collins Core Laboratory for tables and cabinets. This month we will donate \$843 to The Ohio State University Orton museum to cover the cost of re-casing their Dunkleosteus specimen since it was destroyed during recent vandalism. Dunkleosteus is near and dear to all of our hearts.

In addition, the Executive Committee decided to dedicate \$2,000 this year to scholarships for offspring of members. The application is on our website and details on eligibility and applying for the scholarship money are included with this letter. Our thanks to Clark Scheerens, Bill Arnholt, Mark Baranoski, Don Jennings and Nicole Venteris for their hard work in developing the process for competing for these scholarships. All of the monies mentioned above are available from our activities funds which has grown from workshops put on by OGS in conjunction with PTTC and the Geological Survey.

Preparations for the 2012 Eastern Section AAPG Meeting are well under way. We still need help if there are any volunteers. Get involved in all the fun as we take over the Cleveland Renaissance Hotel for 4 days in September (and the Rock n Roll Hall of Fame for 1 night). Contact Pete MacKenzie or Steve Zody (pete@mackex.com, zodyoil@sssnet.com). **We have extended the deadline for abstracts for professional presentations to May 9th**. OGS members are underrepresented in the talks and poster presentations, particularly in our E&P industry folks. So get those titles, abstracts or questions in to techprog@esaapg2012.org.

As usual, thanks for your continued participation in OGS.

John Wicks



THE OHIO GEOLOGICAL SOCIETY

Thursday, April 19th

Lunch at 11:30, talk at 12:30 pm

Ramada Plaza Hotel & Conference Center
4900 Sinclair Rd., Columbus, OH 43229
www.ramadaplazacolumbus.com/

**Please RSVP for the lunch and/or meeting to Bill Arnholt at
barnholt@northwoodenergy.com or 614-457-1024**

DETECTING FAULTS AND FRACTURES THAT YOU COULDN'T SEE BEFORE AND THEIR IMPACT ON FRACING AND INJECTION DECISIONS

Gary Perry, VP Reservoir Services, Geotrace

As we concentrate more and more on exploiting resource plays with horizontal drilling and hydraulic fracturing, it is imperative that we learn all we can from our seismic data. Before beginning a large-scale drilling program in an area it is now possible to image natural fracture swarms, faults (even very small ones) and the sweetest, highest TOC rock.

There are pressures from many directions that require we know all of the above. Many folks are concerned about groundwater contamination from fracing and also the earthquakes that have been triggered from poorly-placed injection wells. And, as has been demonstrated in almost every resource play so far, a majority of wells drilled have proven to be sub-economic. All of these aspects of the resource plays can be impacted in a positive manner by taking full advantage of all that seismic data has to offer.

Examples will be shown of bandwidth extension to image faults and fractures and pre-stack inversion to determine rock properties.



Biography

Gary Perry has been in the industry since 1974 and studied Geology with emphasis on Geophysics at the University of Texas during his early career. He is currently Vice President, Reservoir Services for Geotrace and has been with the company for over 25 years. Gary was previously with Geo-Search Corporation from 1974 to 1986 where he performed basin velocity studies in several onshore U.S. basins before going into seismic processing and then reservoir studies.

The Ohio Academy of Science State Science Day

Saturday, May 5, 2012

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.

Interested in judging?
Please contact Amy Lang at
amy.lang@formanenergy.com or 614-717-9262.



CALL FOR PAPERS

EXTENDED ABSTRACT DEADLINE MAY 9, 2012

THE OHIO GEOLOGICAL SOCIETY PRESENTS THE 41ST ANNUAL MEETING OF THE EASTERN SECTION OF THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

“CLASSIC ROCKS, 153 YEARS OF PERFORMANCE” SEPTEMBER 22-26, 2012 CLEVELAND, OHIO

You are invited to submit an abstract for oral or poster presentation at the 2012 Eastern Section of the AAPG Annual Meeting. All papers of interest to the Eastern Section, the Division of Environmental Geosciences, Energy Minerals Division, and Division of Professional Affairs will be considered for presentation. The technical program is expected to comprise of two or three concurrent oral sessions and two poster sessions each day

PROPOSED THEME SESSIONS

- Source Rock Geochemistry, Petrophysics, and Thermal Maturity
- Hydrocarbon Exploration and Development from Eastern Shales
- Carbon Sequestration and Wastewater Disposal
- Environmental Effects of Modern Minerals Extraction
- Coal and Coalbed Methane, Nuclear, and Renewable Energy
- Secondary and Tertiary Recovery
- Economics and Politics of Exploration and Development of Hydrocarbons
- Case Studies and Current Research on Environmental Impacts from Hydraulic Fracturing
- Deep Exploration Potential in the Eastern USA
- Horizontal Wells: Design, Drilling, Completion, and Hydraulic Fracturing Techniques



THE OHIO GEOLOGICAL SOCIETY

Friday, May 18th

12:00 pm, lunch will be provided

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

**Please RSVP for the lunch and/or meeting to Bill Arnholt at
barnholt@northwoodenergy.com or 614-457-1024**

Coring the Utica/Point Pleasant Shale

William Scott and Charles Allard –

Baker Hughes Coring

JOBS

[Geologist 3 – Ohio Geological Survey – Franklin County, Ohio](#)

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[Geologist 3 – Ohio Geological Survey – Franklin County, Ohio](#)

[Assistant Regional Manager – Penn E&R – Wellsboro, PA](#)

[Project Engineer/Manager – Penn E&R – Pittsburgh, PA, or Wellsboro, PA](#)

[Hydrogeologist – Delaware Geological Survey – Newark, DE](#)

[Geologist V - Alaska Division of Geological & Geophysical Surveys – Fairbanks, AK](#)



<http://earthsciences.osu.edu/seminars.php>

2012 SES Seminar Schedule

Coffee time at 3:30 pm. All seminars are at 4:00 pm in Mendenhall Laboratory Room 291 unless otherwise noted.

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|-------------|---|--|
| ▶2012-04-12 | Dr. Santiago de la Pena
Byrd Polar Research Center -
The Ohio State University
Hosted by Dr. Ian Howat | Estimating Snow Accumulation, Melt and Seasonal Densification Above the
Equilibrium Line of the Greenland Ice Sheet |
| ▶2012-04-19 | Dr. Scott Bair
School of Earth Sciences -
The Ohio State University
Hosted by Dr. Berry Lyons | Did Fracking Cause Methane Migration and Pollution of the Berea Aquifer and
Explosion of the Payne Residence, Bainbridge, Ohio? |
| ▶2012-04-26 | Dr. Ralph von Frese
School of Earth Sciences -
The Ohio State University
Hosted by Dr. Barry Lyons | TBA |

Welcome New Members!

William Barth	Groundwater & Environmental Services, Inc. – Hudson, OH
Alvin Engelke	Creston Well Service, Inc. – Creston, WV
Karen Fryer	Ohio Wesleyan University – Delaware, OH
Richard Goings	Consol Energy – Jane Lew, WV
Stephen Liberatore	Akron, OH
Paul Rueger	Springfield, OH
Ira Sasowsky	Akron, OH
Don Zuch	Hull & Associates, Inc. – Pittsburgh, PA

THE EASTERN SECTION OF THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS PRESENTS
CLEVELAND, OHIO
CLASSIC ROCKS
09.22.12 ★ 09.26.12
★ **153 YEARS OF PERFORMANCE** ★
— THE OHIO GEOLOGICAL SOCIETY PRESENTS —
**THE 41ST ANNUAL MEETING OF THE
EASTERN SECTION OF THE AMERICAN
ASSOCIATION OF PETROLEUM GEOLOGISTS**
**JOIN US SEPT. 22-26, 2012
CLEVELAND, OHIO**
DON'T MISS THIS OPPORTUNITY TO EXPERIENCE
THE REAL CLEVELAND, BIRTHPLACE OF ROCK AND
ROLL. JOIN US FOR SPECTACULAR FIELD TRIPS,
AN ENLIGHTENING TECHNICAL PROGRAM, AND AN
UNFORGETTABLE EVENING AT **THE ROCK & ROLL
HALL OF FAME**. VISIT US AT WWW.ESAAPG2012.ORG.



The Ohio Geological Society
P.O. Box 14304
Columbus, OH 43214
www.ohgeosoc.org

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Bill Arnholt

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Amy Lang

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Nicole Venteris
Steve Zody

AAPG Delegates
John Forman
Larry Wickstrom

Alternate
Paul Archer
Steve Zody

Webmaster
Jim McDonald

CALENDAR

- April 19 **OGS Meeting**
Detecting faults and fractures that you couldn't see before and their impact on fracking and injection decisions
Gary Perry - Geotrace
Ramada Plaza Hotel & Conference Center, Columbus, OH
www.ohgeosoc.org
- April 25 SPE Meeting
Egbert Imomoh, AFREN PLC – 2013 SPE President
McCall's Restaurant Pub and Banquet Center – Canton, OH
<http://ohio.spe.org/>
- May 5 State Science Day
The Ohio State University, Columbus, OH
www.ohiosci.org/ssd.htm
- May 18 OGS Meeting
Coring the Utica/Point Pleasant Shale
William Scott and Charles Allard – Baker Hughes Coring
Horace R. Collins Laboratory – Delaware, OH
www.ohgeosoc.org
- July 30-31 OOGA Summer Meeting
Zanesville Country Club, Zanesville, OH
www.ooga.org
- September 13 OGS Golf Outing
Chapel Hill Golf Course, Mount Vernon, OH
www.chapelhillgolfcourse.com
- September 22-26 41st Annual Eastern Section AAPG Meeting
The Renaissance Cleveland Hotel – Cleveland, OH
www.esaapg2012.org/

Visit 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.