



THE OHIO GEOLOGICAL SOCIETY



The Newsletter of the Ohio Geological Society

March 2008

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

2007-2008 Officers

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STANDING ROOM ONLY?

The next OGS meeting, which will be held Wednesday March 12 at 4:00 PM at the Hilton Columbus at Easton, promises to be one of the best-attended presentations in recent memory. More than 60 people have already registered to attend prior to sending out this newsletter! The OGS meetings held in conjunction with the Ohio Oil and Gas Association Annual Meeting usually draw an above average crowd, but this time we could set an attendance record (assuming someone actually keeps track of such things). Consultant Bill Rike and Jay Terry with Schlumberger will provide information and interpretation of the lithologies and reservoir properties of the Oriskany, Newburg, and Clinton zones that were targeted in the 8700 ft. deep test drilled near the Ohio River in Belmont County. There is not a lot of deep subsurface data in this corner of the State; hence the importance of this test. The zones targeted for careful evaluation, using a sophisticated suite of Schlumberger wireline logs, increased by two when a 1200 unit gas show in the Marcellus Shale and multiple gas shows in the Salina Group were encountered. I hope you will be able to attend what promises to be a very interesting and informative presentation. If you can attend, please RSVP as requested in the attached flyer, so that we can size and arrange the meeting room appropriately.

Speaking of great presentations, Brad Hina did an excellent job of pinch-hitting for Bill Zagorski at our February Luncheon Meeting when he presented "An Overview of Appalachian Shale Gas Plays". There was so much interest and audience interaction that we had to take a break to allow anyone with prior commitments to gracefully depart before resuming the final segment of Brad's presentation. Much of the discussion and most of the questions were focused on recent activity and the gas-producing potential of the Marcellus Shale which, right now, appears to be the Paris Hilton of the Appalachian Basin.

Unfortunately, I didn't see many familiar faces at AAPG distinguished lecturer Jon Olson's lecture on natural fractures and fracture mechanics at the University of Akron on February 15 - which I'll ascribe to short notice. As is typical of AAPG speakers, Jon's talk was well prepared and presented, and drew a good crowd.

We expect to have yet another great presentation lined up for the April 17, OGS luncheon meeting. Please mark your calendar and plan to attend. Details will follow in the April newsletter.

Frank Maichszak



THE OHIO GEOLOGICAL SOCIETY

Wednesday, March 12th

4 pm

Easton D & E

Hilton Columbus at Easton
Columbus, OH

www.hiltoncolumbus.com

Please RSVP to Chris Gordon at
chris.gordon@dnr.state.oh.us or 614-265-6594

Wireline Evaluation of the Battelle First Energy No. 1 FENGenco, Mead Twp., Belmont Co., Ohio

Bill Rike (Consultant) and Jay Terry (Schlumberger)

Battelle's 8700 ft. deep test at the First Energy Burger power plant was designed to evaluate and test select zones, chief among those being the Oriskany, Newburg, and Clinton sandstones.

Historically, the area is lightly developed for oil and gas and consequently subsurface data is sparse. Most of the prior drilling had been to the Berea sandstone. Some wells pushed into the Upper Devonian silstones and sandstones but rarely exceeded 2750' in depth. None of this shallow exploration fostered any flurry of offset drilling. Two and a half miles from the Burger site, Allied Chemical has drilled and continues to maintain a small field of 6000' deep solution-salt wells which generated a small collection of basic Schlumberger logs that represent the study area's most encompassing view of the subsurface. The nearest well to have reached the Clinton is 16 miles away and is not productive.

Battelle's initial zones of interest included the Oriskany, Newburg, and Clinton sections. During drilling, gas shows from the Marcellus and Salina expanded that list to five. The following table summarizes the library of Schlumberger wireline logs used for openhole evaluation and some preliminary findings.

Formation or Interval	Depth	Wireline Logs	Field Notes
Marcellus sh.	5653-5708	gamma ray, compensated neutron, compensated density, photo-electric, laterlog, caliper, digital sonic, formation micro-imager, electron capture spectroscopy, sidewall cores	1200 unit gas show on air, short-lived
Oriskany ss.	5923-5952	gamma ray, compensated neutron, compensated density, photo-electric, laterlog, caliper (all with high-resolution), digital sonic, combinable magnetic resonance, formation micro-imager, electron capture spectroscopy, sidewall cores	15 unit show on air, 30' thick, calcareous, porosity to 7%
Salina Group	6369-7391		Multiple gas shows to 445 units on 10.2# fluid – complex mineralogy
Lockport dol.	7391-7736		Multiple gas shows to 350 units on 10.2# fluid from limestone/dolomite matrix
Clinton ss.	8124-8274		Gas shows to 155 units on 10.2# fluid, 45 net ft. @ 5-6% porosity



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Please contact John Forman (JLForman@att.net) or Larry Wickstrom (larry.wickstrom@dnr.state.oh.us) with your comments or questions.

Proposed AAPG Bylaws Amendment for Consideration

This proposal will be an agenda item at the House of Delegates meeting April 20, 2008 at the AAPG Annual Meeting in San Antonio.

A proposed amendment to Article XI, Section 8, of the AAPG Bylaws to provide for the AAPG Executive Committee to have authority to expel a member who falsely stated his or her qualifications on an application for AAPG membership.

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[~~strikeouts~~ – deletions; bold red – additions]

Article XI. Grievance Proceedings; Section 8. Alternative Procedure

Any member **(a)** who pleads guilty to a misdemeanor involving moral turpitude or to any felony, ~~or~~ **(b)** who admits to the violation of any governmental statute, regulation, rule, or code of ethics relating to the practice of geology, **or (c) who the Executive Committee determines falsely stated qualifications for membership in an application for Association membership** may be expelled from membership in the Association upon a majority vote of all members of the Executive Committee of the Association.

Any member who does not plead guilty to but is convicted of a misdemeanor involving moral turpitude or of any felony or who is found by a governmental body to have violated any governmental statute, regulation, rule, or code of ethics relating to the practice of geology may be suspended from membership in the Association upon a majority vote of all members of the Executive Committee of the Association. If such a conviction or finding is reversed on appeal, the member shall be reinstated to membership. If such a conviction or finding is not appealed or is upheld on final appeal, the member may be expelled from membership in the Association upon a majority vote of all members of the Executive Committee of the Association. If such a conviction or finding is the subject of an executive pardon, the member shall be reinstated to membership upon a majority vote of all members of the Executive Committee of the Association.

In the event that **(a)** expulsion of a member so pleading guilty or so admitting violation **is proposed, (b) expulsion of a member for so falsely stating qualifications is proposed,** or **(c)** suspension or expulsion of a member so convicted or so found is proposed, a date shall be set for a hearing thereon and for consideration by the Executive Committee of such proposed suspension or expulsion. The member shall be given notice in writing of the date and place for the hearing, mailed to the member by registered mail to the member's last-known mailing address not less than thirty (30) days before said date, accompanied by, **as applicable,** a copy of a court document or other official document indicating such plea of guilty or admission of violation, ~~or~~ a copy of the judgment or other document indicating such conviction or finding, **and** a copy of any applicable order of an appellate court or other appellate body, **or a statement explaining such charge of falsely stating qualifications for membership,** and a copy of this section. At the hearing the member may appear before the Executive Committee with legal counsel, may submit oral or written statements to the Executive Committee, **may present written evidence to the Executive Committee,** and may present witnesses to testify on the member's behalf before the Executive Committee. The Executive Committee shall have the right to cross-examine the member and any witnesses presented by the member on the member's behalf. At the member's option, the member may, by registered letter addressed to the President of the Association at Association headquarters, postmarked not less than ten (10) days prior to the date of the hearing, request the Executive Committee to consider the matter on the basis of a written statement by the member accompanying such a letter without the personal appearance of the member before the Executive Committee. The Executive Committee, if such oral or written statements, **written evidence,** or testimony of witnesses are presented, shall consider said statements, **evidence,** and testimony prior to voting on the suspension or expulsion of the member.

A member expelled from the Association under the procedure stated above shall be ineligible for reinstatement to membership unless reinstated by a unanimous vote of all members of the Executive Committee of the Association.

[strikeouts – deletions; bold red – additions]

**PTTC Workshop on “Carbonate Reservoirs”
March 25, 2008
Holiday Inn Meadowlands, Washington, PA**

**Co-Hosted by the Appalachian Basin PTTC Center
& the Pittsburgh Association of Petroleum Geologists**

**Sponsors: Abarta Oil & Gas Company, Inc.
Ansbro Petroleum Company
A.W. Tipka Oil & Gas Inc.
Natural Energy Development Corporation
NGO Development Corporation**

Instructors: Christopher Laughrey and William Harrison, III

Objectives:

This course is designed as an overview of carbonate petroleum reservoirs. Discussion will cover the origin and characteristics of carbonate sediments, rocks and reservoirs. It is designed to give working geoscientists and engineers enough background into the patterns, properties and complexities of carbonate rock to understand the principles that control reservoir geometry, as well as porosity and permeability distribution.

Course Outline:

- Introduction to, and history of, carbonate petroleum reservoirs
- Mineralogy and grain types in carbonate sediments and their influence on rock properties
- Occurrence and role of carbonate mud in rock properties
- Alteration and diagenesis of carbonates
- Carbonate depositional environments and facies sequences
- Carbonate sequence stratigraphy
- Carbonate petroleum reservoirs
- Porosity types and classification
- Core/outcrop studies
- Petrophysics and geophysical log interpretation
- Seismic imaging of carbonate reservoirs
- Case studies
- Practical laboratory exercise(s)
- Carbonate petroleum source rock
- Analytical techniques

Schedule: On-site check in will begin at 7:00 am. A continental breakfast will be provided. The workshop will begin at 8:00 am and conclude by 5:00 pm. Lunch and two breaks will be provided. **Please note** that if you plan to attend and have a hand lens, you should bring it with you. You will need it for one of the exercises.

Location: Holiday Inn Meadowlands, 340 Racetrack Road, Washington, PA. Take exit 41 off I-79. The hotel is 0.5 miles east of the interstate. For room reservations call 724-222-6200.

Instructors:

Christopher D. Laughrey, Senior Geological Scientist, Pennsylvania Geological Survey. Christopher has published work on Devonian, Silurian, Ordovician and Cambrian carbonate reservoirs in the Appalachian basin and is actively involved in karst studies in Florida, the Bahamas, Mexico and Brazil. He is part of a research team at the Pennsylvania Geological Survey working on Trenton/Black River gas reservoirs and geological CO₂ sequestration in deep subsurface Devonian and Silurian carbonate rocks.

William B. Harrison, III, Professor Emeritus, Michigan Geological Repository for Research and Education, Department of Geosciences, Western Michigan University. Bill has authored dozens of papers on Michigan geology. He is part of a research team at Western Michigan University working on the origin and characteristics of dolomite in Michigan reservoirs and on the potential for geological sequestration of CO₂ in Michigan formations.

Registration: To register, fill out and return the form below.

NAME: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

E-MAIL: _____

The registration fee for this workshop is **\$125**. This fee covers the entire workshop, continental breakfast, morning and afternoon breaks and lunch. Please make checks payable to “West Virginia University” and return with this form by March 18, 2008 to: Douglas Patchen, P.O. Box 6064, Morgantown, WV 26506-6064.

Welcome New Member!

Roger McCreedy

NCR Corporation

Dayton, OH

CALENDAR

Information available for OGS meetings at: www.ohgeosoc.org or contact Chris Gordon at Chris.Gordon@dnr.state.oh.us, 614-265-6594.

- March 12 **OGS Meeting** – “Wireline Evaluation of the Battelle First Energy No. 1 FEGENCO, Mead Twp., Belmont Co., Ohio” – Bill Rike and Jay Teery. Easton Hilton, Columbus, OH.
- March 13-14 2008 Ohio Oil & Gas Association Winter Meeting, Easton Hilton, Columbus, OH. www.ooga.org
- April 20-23 AAPG Annual Convention & Exhibition, Henry B. Gonzalez Convention Center, San Antonio, TX. www.aapg.org
- April 23 2008 Ohio Oil & Gas Association Legislative Reception, The Atrium, Ohio Statehouse, Columbus, OH. www.ooga.org

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

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

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 1. Guidebook to the Middle Devonian rocks of north-central Ohio**, by A. Janssens. 30 p., 1970. \$2.50. (M: \$2.00).
- OGS 2. Geology of Silurian rocks, northwestern Ohio**, by C. F. Kahle and J. C. Floyd. Guidebook for First Annual Meeting, Eastern Section, American Association of Petroleum Geologists. 91 p., 1970. Out of print.
- OGS 3. Seminar on industrial self-help programs for natural gas supplies**, edited by Arie Janssens. 55 p., 15 figs., 1 table, 1977. \$3.50 (M: \$3.00).
- 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 6. Principles of seismic exploration**. A collection of papers from a seminar presented at the 1987 AAPG Eastern Section meeting. 1987. Out of print.
- 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 9. An update on Ohio's subsurface geology**. Proceedings from the October 1993 technical symposium held in Canton, Ohio. 11 papers, separately paged, 1993. \$25.00 (M: \$20.00).
- 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 11. Major natural gas plays of the Appalachian basin and surrounding areas**. Proceedings from the October 1994 technical symposium held in Canton, Ohio. 11 papers, separately paged, 1994. \$25.00 (M: \$20.00).
- OGS 12. Structural influences on oil and gas reservoirs**. Proceedings from the October 1995 technical symposium held in Canton, Ohio. 14 papers. 129 p., 1995. Out of print.
- OGS 13. Enhanced recovery--historical development and future potential in Ohio and the Appalachian Basin and Integration of geology and geophysics in exploration**. Proceedings from the October 1996 technical symposium held in Akron, Ohio. 16 papers. 209 p., 1996. \$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 16. Fossil collecting in the Silica Formation at Sylvania, Ohio**. Guidebook for the 1998 AAPG Eastern Section meeting. 16 p., 1998. \$7.00 (M: 6.00).
- 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).
- OGS 18. Exploration and Development of the Trenton-Black River of the Appalachian Basin**. Presentation workbook from the PTTC workshop held in Canton, Ohio, April 25, 2002. 10 papers. 2002. \$15.00 (M: \$10.00).

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.