



THE OHIO GEOLOGICAL SOCIETY



The Newsletter of the Ohio Geological Society

April 2007

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

2006-2007 Officers

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Dear Society Members,

Our next meeting will be held at The Midwest Hotel & Conference Center, Columbus, Ohio on **Thursday, April 19th**. Ron Riley and Mark Baranoski will present "Regional Stratigraphic and Facies Relationships of the Ordovician Trenton-Black River Interval in the Appalachian Basin" and "Central Appalachian Basin architecture and geometry in the Ohio region during Middle Paleozoic time".

We hope to see you there!

Welcome New Members!!!

Mark Andrew	Licking Acquisitions LLC	Granville, OH
George Hale		Columbus, OH
Matthew Justice	Ohio Environmental Protection Agency	Fairborn, OH
Corey McCudden	Northwood Energy Corp.	Columbus, OH

OGS MEETING

Thursday, April 19th

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

Please RSVP for lunch to Alison Nutter at
seismic@sprynet.com or 740-788-8836

Midwest Hotel & Conference Center
4900 Sinclair Road
Columbus, OH 43229

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

Central Appalachian Basin architecture and geometry in the Ohio region during Middle Paleozoic time

Mark T. Baranoski and Ronald A. Riley, Ohio Division of Geological Survey, Columbus, OH 43229

In the Ohio region during Middle Paleozoic time Central Appalachian Basin architecture and geometry was controlled dominantly by regional tectonic stresses impinging on the Laurentian continent. Pre-existing Precambrian Proterozoic terranes and Neoproterozoic/Cambrian rifts affected sedimentation and structure throughout the Paleozoic. Middle Ordovician Black River time marked the geographic position of elongate, north-northeast-trending depo-center geometries, which remained throughout the Paleozoic. Black River time was dominated by a broad, stable, shallow-water carbonate ramp along the northwest margin of the basin. Thick, shaley carbonates were deposited along the southeast margin of the ramp approximately coincident with the western edge of the underlying Rome Trough. Further to the east and southeast, thick shale and clastics accumulated in the Sevier Basin foredeep along the Laurentian continental margin. Craton-wide transgression continued after Black River time with deposition of relatively clean Trenton platform carbonates to the northwest and north, and argillaceous Lexington platform carbonates to the south, marking significant changes in regional tectonics and global paleoclimate. Low-relief carbonate buildups on these extensive platforms surrounded an interplatform sub-basin where brown and black shale of the Utica Shale/Point Pleasant were deposited. Shaley carbonates accumulated in the depo-centers to the east, while further east at the continental margin, an extensive volcanic island system supplied wind-borne sediments to the region. Over time, shaley carbonate deposition in basin depo-centers gave way to shale deposition as continent-wide transgression continued. As the basin subsided during Late Ordovician time, carbonate platforms were completely drowned by Utica Shale and equivalents.

Regional Stratigraphic and Facies Relationships of the Ordovician Trenton-Black River Interval in the Appalachian Basin

Ronald A. Riley and Mark T. Baranoski, Ohio Division of Geological Survey, Columbus, OH 43229

The Ohio Division of Geological Survey (ODGS), in conjunction with the State geological surveys in Kentucky, Pennsylvania and West Virginia, and the New York State Museum Institute recently completed a regional stratigraphic investigation of the Ordovician Trenton-Black River interval in the Appalachian Basin. This investigation defined Trenton, Black River, Utica and equivalent lithostratigraphic units within a regional framework, modeled the depositional environment and basin architecture, and integrated these findings with the results of other tasks of the consortium to delineate potential areas of exploration interest. ODGS geologists generated a network of regional stratigraphic cross sections using 225 digitized well logs, integrated geophysical logs with cores for regional mapping of selected Cambrian-Ordovician intervals using 2030 well control points, created generalized maps showing major tectonic features and basin architecture during Middle Cambrian through Late Ordovician time, and constructed generalized facies maps for the Black River and Trenton/Point Pleasant equivalent strata.

The stratigraphic framework established in this investigation allowed lateral facies changes in the Trenton-Black River interval to be identified and mapped regionally. Trenton isopach and facies maps indicate that exploration potential exists along much of the depositional platform margin, especially where there are well-developed, clean carbonates. In northwest Ohio some of the best hydrothermal dolomite (HTD) reservoirs are from the skeletal shoal grainstones that developed along the platform margin, while in New York, HTD reservoirs have been restricted to the Black River mudstones. Regional correlations also indicate a clean carbonate in the upper portion of the Trenton in central and western New York, which may have untested exploration potential for hydrothermal dolomite reservoirs.

The Ohio Academy of Science

59th Annual State Science Day

May 12, 2007

The Ohio State University
French Field House and St. John Arena

JUDGES NEEDED!

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



What is State Science Day?

For nearly 60 years--and now with more than 50,000 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. First held in 1949, the 58th Annual State Science Day is sponsored by **The Ohio Academy of Science, American Electric Power, The Ohio Environmental Education Fund, and Boehringer Ingelheim Roxane Inc.**

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.

Call for Nominations

It is time to begin the selection process for AAPG's Honors and Awards to be presented at the annual meeting in San Antonio, Texas, April 20-23, 2008. The AAPG Honors and Awards Committee, a committee within the Advisory Council, is responsible for recommending individuals for awards for consideration of the Advisory Council for forwarding to the Executive Committee for their consideration and approval.

During the past few years we have endeavored to improve representation within our diverse Association by expanding the list of persons encouraged to submit nominations. Nominations can be tendered by any member of the Association.

The selection of awardees is an extremely significant aspect of AAPG activities because it allows the Association to express its gratitude to its members and recognize the values and standards that should be encouraged in our membership.

Download the [Honors and Awards Booklet](#) (PDF) and utilize the [Nomination Forms](#) from the left navigation bar which have been prepared to assist you in submitting recommendations. I encourage you to make a concerted effort to address the information requested on the nomination forms including the nominees' merits. To submit nominations, please forward to AAPG, c/o Janice Scott, P.O. Box 979, Tulsa, OK 74101-0979 or electronically to rgill@AAPG.org in the recommended format **by June 15, 2007**.

Proper documentation must be provided in order for the Advisory Council to consider your recommendations. Nominations received without sufficient documentation simply are not as persuasive as those that are well prepared and documented. The nominees that you feel deserve consideration for the award certainly deserve your best efforts to illustrate why they should be considered for the award. Nominations received after July 13 will be considered the following year. The Awards Committee considers nominees for three years after the initial submission.

The Honors and Awards Committee seeks nominations for the following awards:

- [Sidney Powers Memorial Award](#),
- [Michel T. Halbouty Outstanding Leadership Award](#) (formerly named the Michel T. Halbouty Memorial Human Needs Award),
- [Honorary Membership](#),
- [Outstanding Explorer Award](#),
- [Distinguished Service Award](#),
- [Grover E. Murray Memorial Distinguished Educator Award](#),
- [Special Award](#),
- [Public Service Award](#),
- [Pioneer Award](#), and the
- [Geosciences in the Media Award](#) (formerly named the Journalism Award).

The Outstanding Explorer Award is a relatively new and very important award. It was created in 2000 by Executive Committee action to recognize a member's distinguished and outstanding achievement in exploration for petroleum or mineral resources, with an intended emphasis on recent discovery.

By Executive Committee Action this year, the renamed Michel T. Halbouty Outstanding Leadership Award is now considered the second most distinguished award, second to the Sidney Powers Memorial Award. This award and the Sidney Powers Memorial Award are anticipated to be mutually exclusive. *It is envisioned that those persons receiving the Michel T. Halbouty Outstanding Leadership Award will not be considered to receive the Sidney Powers Memorial Award and those persons receiving the Sidney Powers Memorial Award will not be considered to receive the Michel T. Halbouty Outstanding Leadership Award.* Past presidency is not a prerequisite for this award. A complete revised description of the Halbouty Outstanding Leadership Award appears in the [Honors and Awards Booklet](#) (PDF).

A copy of the nominee's activity sheet is available upon request from [Janice Scott](#), (918) 560-9409 or by fax (918) 560-2626. The Executive Committee, acting on a recommendation from the Advisory Council, requests that nominees not be notified and that this information be kept confidential until all selections have been made and approved by the Executive Committee.

Dear teachers, scientists, informal educators, and friends,

JOI Learning, is pleased to offer three very special professional development opportunities this summer and throughout the year! Don't Delay, as space is limited. Applications must be received by midnight, April 20. See below for details, and feel free to forward to potential candidates!

Ninetyeast Ridge Expedition
An Ocean-going Research Experience for Earth and Ocean Science Educators
15 June 15 August 2007
Application Deadline: Friday, 20 April
Only 1 educator will be selected!

Prior to scientific ocean drilling projects, marine geological research expeditions explore and map the areas proposed for drilling. The Ninetyeast Ridge Expedition is one such ³site survey² study. The Ninetyeast Ridge Expedition will be conducted aboard the research vessel Roger Revelle, a 273-ft oceanographic research ship, between 15 June and 15 August 2007. Ninetyeast Ridge is one of the longest linear features on Earth. It is a 4000-km long volcanic ridge that stretches north-south, across the equator, in the eastern Indian Ocean. Its name comes from the fact that it is nearly coincident with the 90°E meridian. One educator will be selected to participate and to interpret the expedition for a variety of shore-based audiences! Applicants will be notified by Friday, 4 May. For more information, see <http://joilearning.org/pdf/NER_Expedition_desc.pdf>

School of Rock 2007
Exploring Ocean Cores at the Gulf Coast Repository
22 28 July
Application Deadline: Friday, 20 April
Only 12 spaces available

Because the JOIDES Resolution is now undergoing renovations, the next week-long School of Rock teacher research experience is scheduled to begin on Sunday, 22 July, 2007 at the Gulf Coast Repository (GCR) at Texas A&M University. What's so special about the GCR? Only about 60 miles of cores are stored there! Fact sheets and applications can be downloaded from <<http://www.iodp-usio.org/Education/SOR.html>>.

JOI Learning Teacher Sabbatical in Washington, D.C.
2007 School Year
Application Deadline: Friday, 20 April
Only 1 educator will be selected!

The Joint Oceanographic Institutions is seeking an enthusiastic teacher for a one-year sabbatical in Washington, DC. The teacher will work with JOI Learning staff to develop ocean science curriculum, produce teacher-training workshops, and assist in conference logistics. The position requires a minimum of 3 years experience teaching science in the classroom, a strong background in earth or ocean sciences, and temporary relocation to Washington, DC. Strong computer skills are a plus. Salary will equal the incumbent's current salary with a cost-of-living adjustment. To apply for the position, send a cover letter, resume, and three references to scooper@joiscience by April 20, 2007.

Thanks and we look forward to hearing from you!

The Society for Organic Petrology (TSOP) is an AAPG associated international society. Our members are academic, government, and industry geologists who specialize in the petrology and geochemistry of coal and petroleum source rocks, and fossil fuel utilization applications.

2007 CSCOP/ ICCP/ TSOP ANNUAL MEETING

The Canadian Society for Coal Science and Organic Petrology (CSCOP), the International Committee for Coal and Organic Petrology (ICCP), and The Society for Organic Petrology (TSOP), Joint Annual Meeting, August 19-25, 2007, Victoria, British Columbia, Canada. Information: Andrew Beaton, Alberta Geological Survey, 4th floor, Twin Atria Building, 4999-98 Avenue, Edmonton, Alberta T6B 2X3 Canada, Phone: 780-427-0809; Fax: 780-422-1459; E-mail: Andrew.Beaton@gov.ab.ca; Further details <http://www.cscop-tsop-iccp-2007.com>

Abstracts due 4/15/07. Conference oral session themes include unconventional petroleum systems; advances in organic petrology, organic and inorganic geochemistry: coal, oil shale, source rocks, paleo- and recent-environments and -climates. General organic petrology and geochemistry poster sessions.

2007 TSOP STUDENT GRANT PROGRAM, THE SPACKMAN AWARD

The Society for Organic Petrology (TSOP) invites applications for one or two graduate student research grants of up to US\$1000 each. The purpose of the grants is to foster research in organic petrology (which includes coal petrology, kerogen petrology, organic geochemistry and related disciplines) by providing support to graduate students who demonstrate the utility and significance of organic petrology in solving the thesis problem.

The Spackman Award supports qualified graduate students from around the world who are actively seeking advanced degrees. Each grant is to be applied to expenses directly related to the student's thesis work such as summer fieldwork, laboratory expenses, etc.

Grant application deadline is May 1, 2007. The award(s) will be made in August 2007. Detailed information and an application form are on the TSOP web site (<http://www.tsop.org/grants.htm>) or from S. J. Russell, 2218 McDuffie St., Houston, TX 77019-6526 USA; e-mail: sj russ@sbcglobal.net.



THE OHIO GEOLOGICAL SOCIETY

Ohio Geological/Geophysical Consultants

As a service to the public, the Ohio Geological Society supplies a list of its members who perform geological/geophysical consulting.

Geology

Paul L. Archer
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CALENDAR

Information available for OGS meetings at: www.ohgeosoc.org
or contact Alison Nutter at seismic@sprynet.com, 740-788-8836.

- April 19 **OGS Meeting** – "Regional Stratigraphic and Facies Relationships of the Ordovician Trenton-Black River Interval in the Appalachian Basin" and "Trenton Platform and Basin Architecture during Ordovician Time in Ohio and the Surrounding Region" – Ron Riley and Mark Baranoski, Midwest Hotel & Conference Center, Columbus, OH.
- May 1-2 North American Coalbed Methane Forum – Spring Session, Hilton Garden Inn Pittsburgh/Southpointe, Canonsburg, PA. Contact Ihor Havryluk at 412-445-5803.
- May 12 State Science Day, Ohio State University, Columbus, OH.
<http://www.ohiosci.org/ssd.htm>
- June 15 OGS Meeting – Hog Roast/Historical Oil & Gas Extravaganza – Ken Miller Supply's Oil, Gas, Car & Truck Museum and Whispering Hills Campground, Shreve, OH.
- September 16-18 2007 Eastern Section AAPG Meeting – "Winning the Energy Trifecta: Explore, Develop, Sustain", Hyatt Regency and Lexington Center, Lexington, KY.
<http://www.uky.edu/KGS/esaapg07/>
- September 20 OGS Golf Outing, Chapel Hill Golf Course, Mt. Vernon, OH.

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.