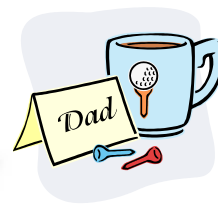




# THE OHIO GEOLOGICAL SOCIETY



The Newsletter of the Ohio Geological Society

June 2007

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

## **2006-2007 Officers**

### **President**

Don Jennings  
Elite Seismic Processing, Inc.  
1927 Tamarack Rd.  
Newark, OH 43055  
(740) 788-8836  
seismic@sprynet.com

### **Vice President**

Alison Nutter  
Elite Seismic Processing, Inc.  
1927 Tamarack Rd.  
Newark, OH 43055  
(740) 788-8836  
seismic@sprynet.com

### **Secretary**

Amy Lang  
Forman Energy, Ltd.  
P.O. Box 340346  
Columbus, OH 43234  
(614) 717-9262  
amy.lang@formanenergy.com

### **Treasurer**

John Miller  
Enervest Operating, LLC  
4770 Indianola Avenue  
Columbus, OH 43214  
(614) 888-9588  
jmiller@enervest.net

## Congratulations to the new 2007-2008 OGS Executive Committee!

President – Frank Majchszak

Vice President – Chris Gordon

Secretary – Amy Lang

Treasurer – John Miller

Trustees – Jason Henthorne, Don Jennings, Bill Rike, Nicole Venteris & Steve Zody

AAPG Delegates – John Forman & Larry Wickstrom

AAPG Alternates – Dan Bendig & Jay Henthorne



THE OHIO  
GEOLOGICAL SOCIETY



**Friday, June 15th, 2007**

**2:30 PM – Self Guided Tour**

**Ken Miller Supply's Oil, Gas, Car & Truck Museum  
7900 Shreve Rd.  
Shreve, OH 44676**

**5:00 PM – Hog Roast**

**Whispering Hills Campground  
8248 SR 514  
Shreve, OH 44676**

**<http://www.whisperinghillsvrpark.com/>**

**Friends, family.....EVERYONE welcome!**

**First 100 people to sign up are FREE!!!  
RSVP no later than June 8<sup>th</sup> to Alison Nutter at  
[seismic@sprynet.com](mailto:seismic@sprynet.com) or 740/788-8836**

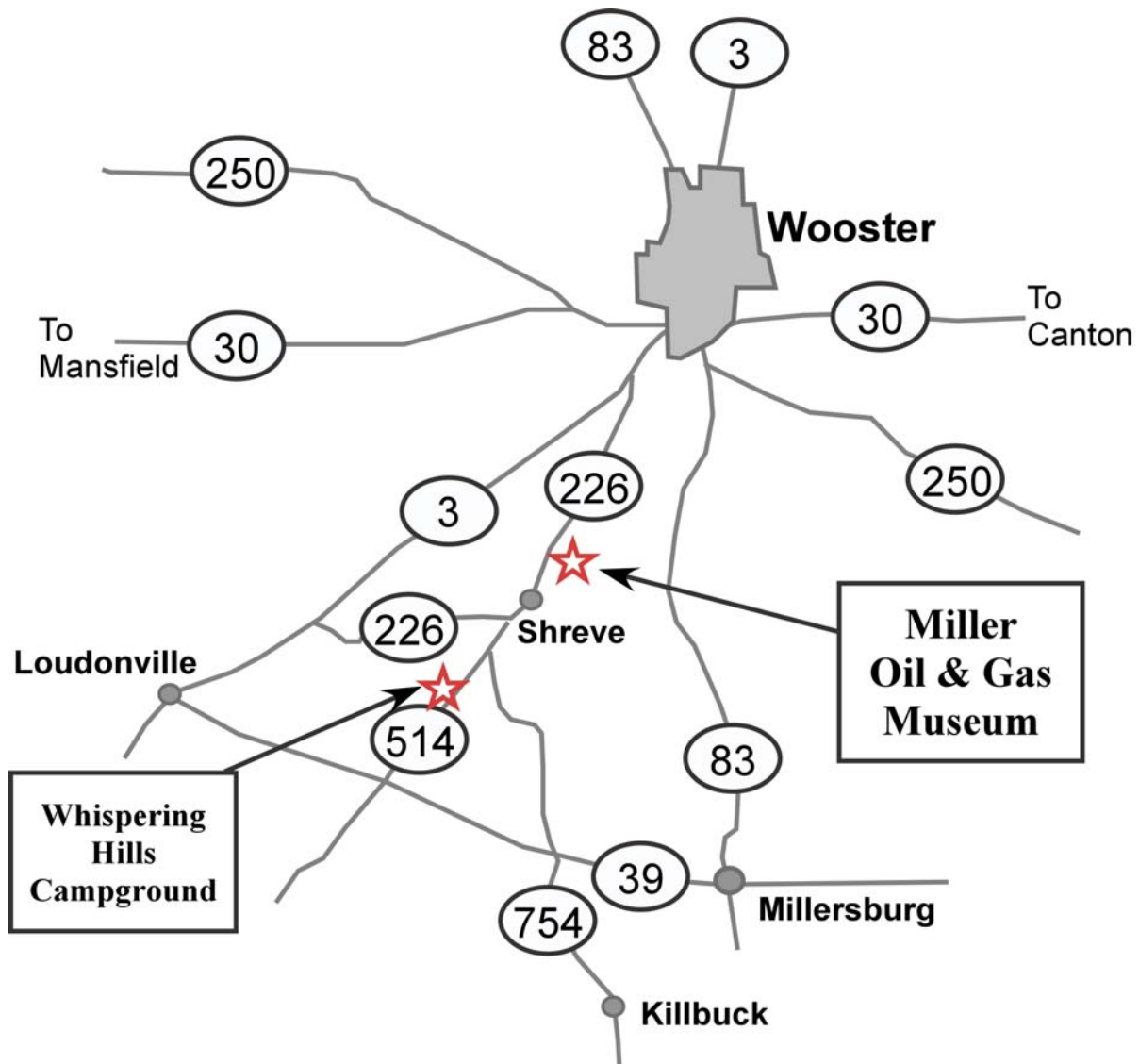
**(Please contact an OGS officer if you would  
like to be a beverage sponsor)**

**You are also welcome to enjoy the other facilities at the campground...mini  
golf, swimming, frisbee golf, and hiking for \$6.00/adult, \$3.00/child (3-16), or  
\$20.00/family (2 adults & up to 3 children)**

*Ohio Geological Society*  
*Hog Roast/Historical Oil & Gas Talk Extravaganza*  
*Friday, June 15<sup>th</sup>, 2007*

---

---



From Route 30 / 250 in Wooster, take Route 3 south approximately 2 miles to Route 226. Take Route 226 south approximately 5.3 miles - Museum will be on the left.

Whispering Hills Campground is approximately 5.1 miles south of the Museum on Route 514 south of Shreve.



# Comparative Anatomy of Devonian Shale Plays in the Appalachian, Illinois and Michigan Basins

Appalachian Region PTTC Workshop – June 21, 2007

National Research Center for Coal and Energy; Morgantown, WV

8:00 a.m. Sign-in; 8:30 p.m. - 5:00 p.m. workshop

Hosted by the West Virginia Geological Survey, NRCCE & Schlumberger-Pittsburgh

## Overview

Recent successes in the Barnett Shale Play have attracted the attention of industry everywhere, leading to an explosion of activity in gas shale trends in many parts of the country. Here in the Appalachian basin, names like Barnett, Woodford, Caney, Fayetteville and Floyd have become as well-known as Antrim, New Albany, Huron, Rhinestreet and Marcellus. And, while Appalachian, Illinois and Michigan basin operators have taken a serious look at some of these new shale plays, they also have shown interest in revisiting our older shale plays.

Can a close examination of the anatomy of a new shale play help to resolve still unanswered questions in older shale plays? Or, does each new play bring with it a new set of questions to be answered? What is it that can make a shale a commercial play? How do you evaluate the potential of these shales? What new technology has been developed to exploit these plays? What can we learn from one play that can be applied to other plays? What characteristics are unique to a given play and must be understood to achieve success?

We propose to present a comprehensive comparative anatomy of three eastern basin shale plays, including discussions of internal stratigraphy, structure, reservoir character, production controls, drilling and development history, and advances in technology as the plays developed.

The workshop is designed for geologists and engineers with an interest in, or who are actively working in, shale plays in the Appalachian, Illinois and Michigan basins. Service companies, investors, land men, students, faculty and government employees also will find the program to be of interest and value.

## Schedule

Sign-in and workshop material distribution will begin at 8:00 a.m. on June 21, 2007.

The workshop will begin at 8:30 a.m. and conclude at 5:00 p.m.

## Cost & Registration Information

The fee for the workshop is \$125.00 which includes workshop material and all breaks. \* **Please make checks payable to “WVU Research Corp” and send with the attached registration form by June 15 to:**

Doug Patchen  
NRCCE/WVU  
P.O. Box 6064  
Morgantown, WV 26506-6064  
Phone: (304) 293-2867x5446  
Fax: (304) 293-7822  
Email: [doug.patchen@mail.wvu.edu](mailto:doug.patchen@mail.wvu.edu)

---

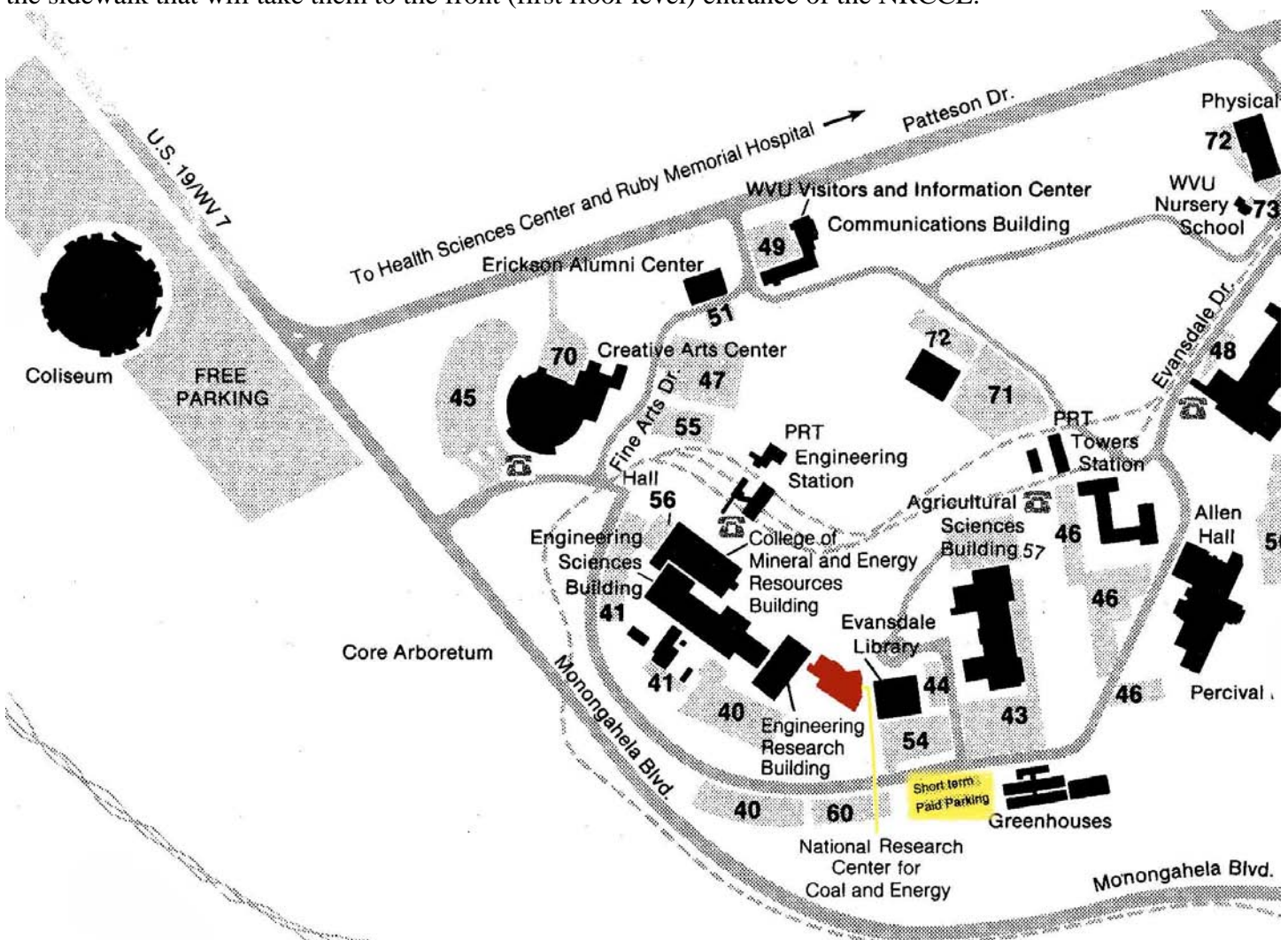
## Parking Alert for Attendees at NRCCE — Evansdale Campus, West Virginia University

Due to construction behind the Engineering Building on the Evansdale Campus of West Virginia University, the parking area behind NRCCE is currently being used as a staging area for the construction crews; therefore, this lot is no longer accessible to vehicles or pedestrians. Attendees should note the following:

Paid Parking in the short-term pay lot next to the WVU Greenhouse. Rate is \$1.00 per hour and the machine does not give change. Accepts only \$1 bills and coins, so attendees need to arrive with at least 8 \$1 bills in their possession. Attendees should arrive early to use this option because WVU employees with parking permits are being forced to park here for the next 90 days.

Free Parking in the WVU Coliseum parking lots. Attendees may park at the Coliseum and ride the free university shuttle bus to the Mineral and Energy Resources Building, just a short (5 minute) walk from the NRCCE building. Attendees who use this option should allow an extra 20 minutes to park, catch a bus and walk to the NRCCE. Buses depart from the Coliseum Blue Gate every 10 minutes from 7:30 am until 5:00 pm, and every 15 minutes from 5:00 pm until 10:00 pm.

Access to the NRCCE Building is through the front (first floor) entrance only. Those who park in the pay lot next to the Greenhouse will need to walk around the NRCCE building using the sidewalk closest to the pay lot and enter the front (first floor level) of the building. When they do so, the workshop room will be immediately on their left after they enter the building. Those who park in the Coliseum lots and ride the bus will walk along the sidewalk that will take them to the front (first floor level) entrance of the NRCCE.



## **“Comparative Anatomy of Devonian Shale Plays, Appalachian, Illinois and Michigan Basins”**

NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

EMAIL: \_\_\_\_\_

### **Preliminary Program**

- |          |  |
|----------|--|
| 8:00 am  | Registration and Continental Breakfast   |
| 8:30 am  | Hot Shale Plays – Challenges, Potential and New Technology<br>- Chuck Boyer, Schlumberger Pittsburgh   |
| 10:00 am | Coffee Break   |
| 10:30 am | Assessment of Undiscovered Natural Gas Resources in Devonian Black Shales, Appalachian Basin, Eastern U.S.A. - Robert Milici, U.S. Geological Survey                                 |
| 11:30 am | Shale Reservoir Evaluation and Stimulation<br>- Jim Fontaine, Universal Well Services  |
| 12:00 pm | Lunch  |
| 1:00 pm  | Geology and History of the Antrim Shale Play, Michigan Basin<br>- William Harrison, Western Michigan University  |
| 2:00 pm  | Geology of the Devonian New Albany Shale Play, Illinois Basin<br>- Chris Swezey, U.S. Geological Survey  |
| 3:00 pm  | Coffee Break   |
| 3:30 pm  | Commercialization of Biogenic Gas from Antrim and New Albany Shales<br>- John Hunter, Aurora Oil & Gas Corporation   |
| 4:15 pm  | Geochemical Evaluation and Comparison of Eastern USA Gas Shales to Other Shale Gas Systems in the USA – Dan Jarvie, Humble Geochemical Services, a Weatherford International Company |
| 4:45 pm  | Proposed “Appalachian Basin Shale Play Research Consortium”<br>- Douglas Patchen, WVGS-WVU   |
| 5:00 pm  | PDH Certificates & Evaluation Forms; adjourn   |



**State Science Day 2007** was held May 12<sup>th</sup> at The Ohio State University. This year the Ohio Geological Society awarded \$750 in cash prizes, certificates and a one year student OGS membership to the top judged projects of our Geological Award. Judges this year were Dan Bendig, Jim McDonald, Erik Venteris and Cathy & John Forman. We congratulate our award winners and thank our judges for the time they volunteered out of their busy schedules.

1<sup>st</sup> Place (\$250)

**Katherine E. Bauer** - 8<sup>th</sup> grade at Clay High School, Portsmouth  
*The Sinister Swirl: The Study of Left-handedness in Snails*

2<sup>nd</sup> Place (\$200)

**Trent K. Navran** - 8<sup>th</sup> grade at Solon Middle School, Solon  
*Solar Storms and Magnetic Fields*

3<sup>rd</sup> Place (\$150) tie – two awards given

**Jennifer D. Haung** - 8<sup>th</sup> grade at Hathaway Brown School, Shaker Heights  
*Various Bulkhead Designs on River Erosion*

**Meredith V. Comer** - 8<sup>th</sup> grade at Riverside High School, DeGraff  
*Biological Survey of Beatty's Fen*

Honorable Mention Certificates

**Andrew A. Armstrong** - 7<sup>th</sup> grade at Miami View Middle School, South Charleston  
*The Effect of Water on Soil pH*

**Robert A. Bauer** - 12<sup>th</sup> grade at Clay High School, Portsmouth  
*Shake It Here, There, Everywhere*

**Ian B. Edgley** - 7<sup>th</sup> grade at St. Francis Xavier, Medina  
*The Effects of Gas Stations on the Soil Around Them*

**Benjamin E. Lewis** - 8<sup>th</sup> grade at Jackson Middle School, Jackson  
*How Does Ascrubber Cake Affect Soybean Growth?*

**David W. Petry** - 7<sup>th</sup> grade at Akron's Miller South Visual Perf. Arts MS  
*Polar Ice Cap Meltdown*

**Leah E. Rogers** - 10<sup>th</sup> grade student Ridgedale Jr/Sr High School, Morral  
*Soil Microorganisms: A Big World*

**Brett W. Wilson** - 8<sup>th</sup> grade at Volney Rogers JS, Youngstown  
*Beach Erosion*

## **Geologic Mapping & Industrial Minerals Group Supervisor - Ohio Geological Survey**

The Ohio Geological Survey (OGS) seeks applications for the position of Supervisor, Geologic Mapping and Industrial Minerals Group. The successful candidate will be a highly motivated geoscientist with a thorough understanding of bedrock and glacial geology and the minerals industries (especially aggregate resources), and a proven record of research, publishing, project management, and supervision. The candidate should also have experience in securing research grants and working with the public and industry associations. A Master's degree (minimum) in geosciences, publications record, bedrock or glacial materials mapping experience, and GIS experience is preferred. The complete job posting is available on the ODNR Website ([www.ohiodnr.com/jobs](http://www.ohiodnr.com/jobs)). The Ohio Department of Natural Resources is an equal opportunity/affirmative action employer. **Applications will be accepted thru June 22, 2007.** For more information concerning this opportunity, please contact Mac Swinford at 614-265-6473.

---

### 2007 WMAO Fall Conference "Call for Papers"

The 36<sup>th</sup> Annual Water Management Association of Ohio (WMAO) Fall Conference is November 14 & 15, 2007, at the Midwest Hotel and Conference Center on Sinclair Drive, Columbus. The WMAO 2007 Fall Conference Planning Committee is issuing a "Call for Papers" (web site) for the fall conference addressing trends in water resources management.

<http://www.magnetmail.net/images/clients/NGWA/attach/2007WMAOCallforAbstracts2.pdf>

## CALENDAR

Information available for OGS meetings at: [www.ohgeosoc.org](http://www.ohgeosoc.org)  
or contact Alison Nutter at [seismic@sprynet.com](mailto:seismic@sprynet.com), 740-788-8836.

- June 5                   PTTC Workshop – “The Digital Revolution: Archive, Organize, Deliver”, West Virginia University/NRCCE, Morgantown, WV. <http://karl.nrcce.wvu.edu/calendar.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.
- June 21                   PTTC Workshop – “Comparative Anatomy of Eastern Shale Plays: Huron, Antrim and New Albany”, West Virginia University/NRCCE, Morgantown, WV. <http://karl.nrcce.wvu.edu/calendar.htm>
- August 6-7               OOGA Summer Meeting – Zanesville Country Club, Zanesville, OH. <http://www.ooga.org/calendar/meetings.htm>
- 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](http://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](mailto:geo.survey@dnr.state.oh.us).