



# THE OHIO GEOLOGICAL SOCIETY

50<sup>th</sup> Anniversary  
1961-2011



The Newsletter of the Ohio Geological Society

May 2011

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

## 2010-2011 Officers

### **President**

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148 E. Liberty St.  
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### **Vice President**

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### **Secretary**

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### **Treasurer**

Alison Nutter  
Elite Seismic Processing, Inc.  
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Newark, OH 43055  
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## **LUNCH WILL BE PROVIDED AT THE OGS MAY MEETING PRESENTING ROADSIDE GEOLOGY OF OHIO AUTHOR MARK CAMP**

At our April meeting Michael Campbell delivered an interesting presentation on the current state of the nuclear industry. We were informed about the mining of uranium as well as the potential for small-scale nuclear plants. He and his group see nuclear playing a major role in our energy future, growing to as much as 1/3 of our energy supply by 2070. Special guest Jay Lehr joined Michael to inform us about the differences between radiation leakage, such as at Fukushima, and the fallout from a nuclear bomb. Jay, Science Director at the Heartland Institute, has been seen lately on numerous news broadcasts offering expert opinion on the potential damage of the Fukushima disaster. If you want to hear his comments, go to YouTube and search for his name. Our thanks to Michael and Jay for advancing a stimulating discussion.

Next week we will be meeting at the Horace R. Collins Laboratory at the Alum Creek State Park near Delaware. Mark Camp, Associate Professor of Geology and Environmental Sciences at the University of Toledo, will present Historical Vignettes of Ohio Geology. Mark is a distinguished paleontologist and author of *Roadside Geology of Ohio* as well as its companion *Roadside Geology of Indiana*. You never want to drive anywhere in Ohio or Indiana without these books. I have stopped many times at the roadside to consult my copies which never failed to inform me about the relevance of the rocks in sight. Mark will share his unique perspective on the rock exposures in Ohio and their role in the annals of the history of the earth and its population. The OGS will be providing lunch for all attendees. Please RSVP to Bill Arnholt if you plan to attend ([barnholt@northwoodenergy.com](mailto:barnholt@northwoodenergy.com)). We hope to see you there.

Please join me in congratulating Heather Weismiller, a Masters' candidate at Ohio University, the OGS Named Grant recipient this year. The \$500 award will supplement her research on *Sedimentation on basalt flows: Jurassic Kalkrand Formation, Namibia*. The Grant fund is administered by AAPG on behalf of OGS and is worthy of our support. We are still working on our modest goal to build this fund to \$25,000, which would double the annual award to \$1000. I urge you to send your tax deductible contributions to Rebecca Griffin, Manager AAPG Foundation, PO Box 979, Tulsa, OK 74101-079. Reference the OGS Named Grant fund.

This newsletter contains a ballot to elect officers to lead OGS next year. There are several highly contested races this year. Please exercise your right to vote and feel free to write your own name in for any of the positions. Who knows, you just may win!

OGS members Chris Perry and Ed Mack were reinstated as Active members of AAPG last month. Our Active AAPG members continue to grow and our membership is close to, if not exceeding record levels.

I'll close by urging everyone to GET INVOLVED. You will find no better opportunity than the Eastern Section AAPG meeting that we will be hosting in September of 2012. Contact Steve Zody or Pete MacKenzie for ideas on what you can do ([pete@mackex.com](mailto:pete@mackex.com), [zodyoil@sssnet.com](mailto:zodyoil@sssnet.com)).

Thanks for your participation.

John Wicks  
President, OGS



# THE OHIO GEOLOGICAL SOCIETY

**Friday, May 20<sup>th</sup>**

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](mailto:barnholt@northwoodenergy.com) or 614-457-1024

## ***Historical Vignettes of Ohio Geology***

### **Mark J. Camp – University of Toledo**

Ohio has a long history, far beyond its rise to statehood in 1803, far beyond its first European settlers, Native Americans, and paleo-indians. Great masses of ice once spread slowly, back and forth, across all but the southeastern hills, shaping the state as we know it. Rivers and streams adjusted themselves to the new terrain—the Teays disappeared; the Ohio developed. Other great rivers carved new channels and sometimes reversed directions. Hidden and disguised by the glaciers is evidence of more ancient times when swamp forests and fields of scouring rushes carpeted the shore of an inland sea and distant rising mountains shed clastics across what is now eastern Ohio; when sail-back reptiles and large salamander-like amphibians were at the top of the food chain; when reefs flourished in shallow sub-tropical waters; and when volcanoes spread ash and lava flowed from fissures.

This is just a sampling of what made the compiling of *Roadside Geology of Ohio* such a rewarding accomplishment. It was written with an emphasis on history, not just geologic time, but continuing to the scientific study of the state's geology and our use of geologic resources. The book presents the geology in geologic order of the bedrock and surficial sediments, starting with a discussion of the western till plains underlain by the oldest strata and proceeding to the Upper Paleozoic strata of the Allegheny Plateau, and finishing with Lake Erie's shoreline and the Ohio Valley. Along the way the reader will discover noteworthy mineral and fossil localities such as Linton and Clay Center, Ohio's first oil well dating to 1814, centers of building stone production including Amherst, Buena Vista, and McDermott, early grindstone manufacture at Berea and Marietta, brick and tile plants and potteries utilizing Ohio's diverse clay and underclay deposits, mines and quarries, Ohio's obscure natural bridges, notable caves, glacial grooves, seismic centers including Anna and Ashtabula, and some Ohio residents that left a legacy in geology.

Mark J. Camp completed the writing of *Roadside Geology of Ohio* in 2005. The Associate Professor of Geology in the Department of Environmental Sciences at the University of Toledo had been compiling historical files and photos of Midwest geology since the 1970s when an opportunity came to author *Roadside Geology of Indiana* in the 1990s. Mark's interest in Indiana geology came during his two year stay at Earlham College's Geology Department from 1974-1976, his first academic position. The successful completion of the Indiana book in 1998 with help from co-author G.T. Richardson led logically to the Ohio book.

Mark's early research focused on Pleistocene nonmarine Mollusca, but in later years his interest has been in the history of geology and building stone use. He has interwoven his other interest--railroad depots--into his geologic studies by compiling data on the use of dimension stone in railroad construction. He currently serves the Ohio Academy of Science as Director of Northwest Ohio District 2 Science Day and maintains the website of the Railroad Station Historical Society as a National Director. He received a M.S. in geology from the University of Toledo in 1972 and a Ph.D from The Ohio State University in 1974. He lives in Toledo with his wife Pamela.



**State Science Day 2011** was held on May 7<sup>th</sup> at The Ohio State University. This year the Ohio Geological Society awarded \$925 in cash prizes, certificates and a one year student OGS membership to the top judged projects of our Geological Award. We congratulate our award winners!...

- 1<sup>st</sup> Place (\$250)      **Abigail L. Myers** - 6<sup>th</sup> grade – Big Walnut MS, Sunbury  
*Aquatic oil spill clean-up*
- 2<sup>nd</sup> Place (\$200)      **Rohit V. Chakravarthy** - 6<sup>th</sup> grade – Ferguson MS, Beavercreek  
*Effect of geomagnetic storms on GPS signals*
- 3<sup>rd</sup> Place (\$150)      **Alyssa P. Armstrong** - 8<sup>th</sup> grade – St. Joseph & Immaculate Heart of Mary, Youngstown  
*Various limestones' neutralizing effect on acid mine drainage*
- 4<sup>th</sup> Place (\$100)      **Olivia M. Henderson** - 7<sup>th</sup> grade – St. Columban, Loveland  
*The tsunami shield*
- 4<sup>th</sup> Place (\$100)      **Jackson K. Tankersley** - 5<sup>th</sup> grade – National Inventor's Hall of Fame School, Akron  
*How many trees are hiding in your mailbox?*
- Honorable Mention (\$25)      **Katie A. Fasola** - 7<sup>th</sup> grade – St. Columban, Loveland  
*Will oil change our weather?*
- Abby L. Swallow** - 7<sup>th</sup> grade – St. Sylvester, Woodsfield  
*Soil erosion zero tolerance*
- Cecilia B. Hunt** - 7<sup>th</sup> grade – Geneva JS, Geneva  
*Heat gain and retention in microenvironments*
- Morgan R. Nash** - 9<sup>th</sup> grade - Carroll HS, Dayton  
*Sun's effect on different materials*
- Brittany S. Davis-Rowe** - 11<sup>th</sup> grade – Thurgood Marshall HS, Dayton  
*The energy given off in a combustion reaction*

**THANK YOU JUDGES!**

Kara Walton, Gregory Kinsall, Mohammad Fakhari  
Doug Aden, Clark Scheerens, Jim McDonald, Amy Lang





# THE OHIO GEOLOGICAL SOCIETY

## *Official Ballot*

### *2011 - 2012 Officer Slate*

<u>Position</u>	<u>Nominated</u>	<u>Write-In</u>
President	John Wicks	_____
Vice President	Bill Arnholt	_____
Secretary	Amy Lang	_____
Treasurer	Alison Nutter	_____
Trustee 2011 - 2015	Don Jennings	_____

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

Please return ballot by May 27<sup>th</sup> to:

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

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

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2011-05-12	<a href="#">Marji Puotinen</a> University of Wollongong Hosted by Dr. Andrea Grottoli	Modeling Tropical Cyclone Impacts on Coral Reefs
2011-05-19	<a href="#">Dr. Martyn Tranter</a> University of Bristol Hosted by Berry Lyons	Do Glaciers Stimulate Ocean Productivity?
2011-05-26	<a href="#">Dr. Michael Barton</a> School of Earth Sciences - The Ohio State University Hosted by TBA	Magma plumbing systems, crustal accretion, and crustal structure

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### Geology of Illinois

D. R. Kolata and C. K. Nimz, editors

**\$35.00**

2010. 530 + xiv pp.

ISBN: 978-0-615-41739-4

The Illinois State Geological Survey, Institute of Natural Resource Sustainability, University of Illinois, announces the release of its benchmark publication, *Geology of Illinois*. This 530-page volume, conceived in preparation of the Survey's centennial celebration in 2005, was written by 40 recognized experts in Illinois geology. The book summarizes more than a century of earth science investigations in Illinois.

The publication will help both geologists and non-geologists better understand how the state's mostly unseen geology affects, and is affected by, life on the surface.

More than 200 color photographs, maps, and drawings illustrate the text. Topics include

- the history of geological investigations in Illinois
- the impact of the state's tectonic and structural history;
- the properties and classification of its rocks and sediments;
- the rich heritage of its land, water, and mineral resources;
- the threats from its geological hazards; and
- the application of geological information to societal issues.

The retail price is \$35.00, but the introductory price is \$30.00 plus shipping and handling. Preview chapters at

<http://www.isgs.illinois.edu/maps-data-pub/publications/goi/contents.shtml>

Copies may be ordered online (<https://shop.inrs.illinois.edu/shop-isgs.html>) or by calling the Information and Sales Office at 1-217-244-2414.

**Welcome New Members!**

Alyssa Armstrong      St. Joseph & Immaculate Heart of Mary – Youngstown, OH

Rohit Chakravarthy      Ferguson MS – Beaver creek, OH

Olivia Henderson      St. Columban – Loveland, OH

Gregory Kinsall      Cox-Colvin & Associates, Inc. – Plain City, OH

Abigail Myers      Big Walnut MS – Sunbury, OH

K.C. Oren      LMKR/GeoGraphix – Frisco, CO

Kara Walton      Raccoon Creek Partnership – Columbus, OH



**Applications due postmarked by June 1**

<http://www.ohiosci.org/ScholarshipApplication.pdf>

## The Ohio Environmental Science & Engineering Scholarship Program

is funded by a grant from The Ohio Environmental Education Fund to The Ohio Academy of Science.

**\$1,250 for students in 2 year programs; \$2,500 for students in 4-5 year programs**

**These scholarships provide** partial support for the last few quarters or semesters needed to complete a degree. Annually the program awards approximately 18 scholarships each valued at a maximum of \$2,500 for students in their last year of four or five year programs and \$1,250 for students in their second year at community and technical colleges.

### Selection Criteria

Selections are based on: (1) Academic record with an overall GPA of at least 3.0, (2) education, employment and/or internships, honors/awards, professional memberships, publications, presentations given and professional meetings attended, and community service, (3) reasons for choosing a career in environmental science or environmental engineering and how the scholarship will help, (4) original research, scholarship, employment and/or internships, or other unique contributions to environmental science or environmental engineering, (5) extra curricular activities and participation in organizations that demonstrates your leadership, interpersonal skills and social responsibility, (6) letters of recommendation from education or environmental professionals.

PROGRAM NOTE: Students at BOTH state and private colleges are eligible to apply.

Open Positions – Oil & Gas

<http://www.daltonboggs.com/open-og.htm>

Dalton Boggs & Associates

PO Box 2288

Edmond, OK 73083

Phone 800-348-1654

Fax 405-348-1693

Email [daltonb@daltonboggsassociates.com](mailto:daltonb@daltonboggsassociates.com)



**The Ohio Geological Society**  
P.O. Box 14304  
Columbus, OH 43214  
[www.ohgeosoc.org](http://www.ohgeosoc.org)

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John Wicks

Vice President  
Bill Arnholt

Secretary  
Amy Lang

Treasurer  
Alison Nutter

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Clark Scheerens  
Nicole Venteris  
Steve Zody

AAPG Delegates  
John Forman  
Larry Wickstrom

Alternate  
Paul Archer  
Steve Zody

Webmaster  
Jim McDonald

## CALENDAR

- May 18      **PGS Meeting**  
*Land-Ocean-Atmosphere Connections: Controls on the Flux and Fate of Terrigenous Sediment in the Coastal Ocean*  
Katie Farnsworth – Indiana University of Pennsylvania  
Foster's Restaurant , Green Tree, PA  
[www.pittsburghgeologicalsociety.org/](http://www.pittsburghgeologicalsociety.org/)
- May 19      **PAPG Meeting**  
*Shaikan Field, Kurdistan, Iraq: A Significant Discovery*  
Christopher H. Garrett – Gulf Keystone Petroleum Ltd.  
Radisson Hotel - Greentree, Pittsburgh, PA  
[www.papgrocks.org](http://www.papgrocks.org)
- May 20**      **OGS Meeting**  
*Historical Vignettes of Ohio Geology*  
Mark Camp – University of Toledo  
Horace R. Collins Laboratory, Delaware, OH  
[www.ohgeosoc.org](http://www.ohgeosoc.org)
- June 16      **SPE Golf Outing**  
Wilkshire Golf Course, Bolivar, OH  
[ohio.spe.org/](http://ohio.spe.org/)
- June 23-25      **Oil History Symposium**  
Marietta, OH  
<http://petroleumhistory.org/>
- August 1-2      **OOGA Summer Meeting**  
Zanesville Country Club, Zanesville, OH  
[www.ooga.org](http://www.ooga.org)
- September 15      **OGS Golf Outing**  
Chapel Hill Golf Course, Mount Vernon, OH  
[www.chapelhillgolfcourse.com](http://www.chapelhillgolfcourse.com)
- September 25-27      **ES AAPG Meeting**  
Hyatt Regency-Crystal City, Washington D.C.  
[www.gsweb.org](http://www.gsweb.org)

Visit [www.ohgeosoc.org](http://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](mailto:geo.survey@dnr.state.oh.us).