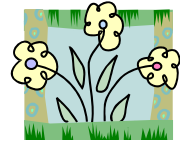




# THE OHIO GEOLOGICAL SOCIETY



The Newsletter of the Ohio Geological Society

June 2010

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

## 2009-2010 Officers

### **President**

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### **Vice President**

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### **Treasurer**

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Dear Fellow Society Members:

I'd like to thank you for giving me the opportunity to serve as President of the Society over the past two years. I gained some valuable experience and made many new acquaintances. I know your new officers will continue to serve in the best interest of the Society. Until I see you again.

Chris Gordon

## OGS May Meeting.....





**State Science Day 2010** was on May 8<sup>th</sup> at The Ohio State University. This year the Ohio Geological Society awarded \$950 in cash prizes, certificates and a one year student OGS membership to the top judged projects of our Geological Award. Judges this year were John Miller, Jim McDonald, Erik Venteris, Mohammad Fakhari, and Amy Lang. We congratulate our award winners and thank our judges for the time they volunteered!

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

**Alexa E. Brown** - 10<sup>th</sup> grade - Beaumont School, Cleveland Hts  
*Remediation of contaminated soil through the use of surfactants*

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

**Erin R. McCarty** - 12<sup>th</sup> grade - West Union HS, West Union  
*Manipulation of CEC and pH levels for optimal maize growth*

3<sup>rd</sup> Place (\$150)

**Jacob C. Nash** - 5<sup>th</sup> grade - Paint Valley ES, Bainbridge  
*Pollution in local streams*

4<sup>th</sup> Place (\$100)

**Tori E. Newman** - 7<sup>th</sup> grade - John C. Dempsey MS, Delaware  
*Hoes does height and velocity of an asteroid affect crater characteristics?*

4<sup>th</sup> Place (\$100)

**Steven M. Sferrazza** - 7<sup>th</sup> grade - St. Joseph, Sylvania  
*How does acid rain affect limestone deterioration?*

Honorable Mention (\$25)

**Shannon E. Cooney** - 5<sup>th</sup> grade - Frank B. Willis Intermediate MS, Delaware  
*Acid effects on soil pH*

**Hunter C. Hayes** - 8<sup>th</sup> grade - Trinity Lutheran, Toledo  
*Groovy glow sticks*

**Katherine E. Bauer** - 11<sup>th</sup> grade - Clay HS, Portsmouth  
*Last Pleistocene horse in North America*

**Kasandra J. Dalton** - 8<sup>th</sup> grade - Zane Trace MS, Chillicothe  
*What pipe is most cost effective in geothermal heating?*

**Rebecca M. Vang** - 8<sup>th</sup> grade - Kent MS, Akron  
*Landsat 7's surface temperature accuracy compared to a fluke 63 infrared temperature reader*

**Shannon M. Masters** - 5<sup>th</sup> grade - Valley Forge ES, Huber Hts  
*Oceans as alternative energy*

Congratulations to the new 2010-2011 OGS Executive Committee!

President – John Wicks

Vice President – Bill Arnholt

Secretary – Amy Lang

Treasurer – Alison Nutter

Trustees – Don Jennings, Frank Majchszak, Clark Scheerens, Steve Zody, Nicole Venteris

AAPG Delegates – John Forman, Larry Wickstrom

AAPG Alternates – Paul Archer, Steve Zody

Webmaster – Jim McDonald

Dalton Boggs & Associates is conducting searches for three Geologists:

DEVELOPMENT GEOLOGIST for an independent natural gas and oil company focused on the exploration, acquisition, development and production of domestic onshore reserves. This position is based in Pittsburgh, Pennsylvania, and entails development geology, property management and generation of drilling proposals. Qualifications include a Bachelor's degree in Geology (Masters degree preferred), 5 years experience with a major or large independent oil and gas producer, ability to work within a multidiscipline team, and proficiency in Geologic Mapping software and Microsoft Office products.

DEVELOPMENT GEOLOGIST - TULSA OPERATIONS for a large independent crude oil and natural gas exploration and production company whose focus is on domestic, unconventional resource plays characterized by large acreage positions and deep inventories of low risk drilling opportunities. This individual will be responsible for conducting detailed prospect analysis and play assessments within the Mid-Continent Region. Qualifications include Bachelors degree in Geology, 10+ years experience as an upstream oil and gas Geologist, and skillful application of common geological and Petrophysical software and digital databases.

DEVELOPMENT GEOLOGIST for a Texas company that engages in the acquisition, exploration, and production of oil and gas properties. Based in Houston, this individual will work primarily in the Mid-Continent. Qualifications include a BS in Geology, a minimum of ten years of experience in the oil and gas industry, and a strong track record in developmental geology in the Mid-Continent Region.

If you know of anyone who may want to learn more about these exciting opportunities, please have them call, contact or submit a resume in confidence to:

Natalie Boggs  
Dalton Boggs & Associates  
PO Box 2288  
Edmond, OK 73083  
Phone 800-348-1654  
Fax 405-348-1693  
Email [natalieb@daltonboggs.com](mailto:natalieb@daltonboggs.com)

**Welcome New Members!**

Indrajit Bhattacharya	American Electric Power	Columbus, OH
Alexa Brown	Beaumont School	Cleveland Heights, OH
Samuel Kramer	Ashland University	Ashland, OH
Richard Malizia	Ohio University	Athens, OH
Erin McCarty	West Union HS	West Union, OH
Danielle Meggyesy	Peregrine Solutions LLC	Granville, OH
Tony Miller	Dover Middle School	Dover, OH
Jacob Nash	Paint Valley ES	Bainbridge, OH
Tori Newman	John C. Dempsey MS	Delaware, OH
Steven Sferrazza	St. Joseph	Sylvania, OH



**Mark Your Calendar!**

***2010 Ohio Geological Society Golf Outing***

***Thursday, September 16th***

*Chapel Hill Golf Course  
Mount Vernon, Ohio*

# **An Introduction to ArcGIS for Earth Science Professionals**

**A short-course for petroleum geologists and geophysicists, environmental engineers,  
hydrologists and earth science researchers, teachers and geotechs**

**August 2-5, 2010, 8:30 AM - 4:30 PM  
Duquesne University, Pittsburgh, PA**

## ***Course Description***

This 4-day hands-on workshop introduces the basic concepts and methodologies of ArcGIS software for the earth sciences. The course assumes no prior knowledge of GIS or ArcGIS and consists of short introductory lectures followed by practical computer-based exercises and assignments that lead participants from basic concepts to advanced topics. Examples used are drawn from worldwide geological settings, including petroleum basins or potentially productive basins, areas with natural environmental hazards, such as subsidence, surface faulting, landslides, flooding, earthquakes, and volcanoes, and from the emerging field of medical geology. The course teaches not only the powerful mapping functionalities of ArcGIS but more importantly how the software is used to (1) integrate vector, raster and tabular data from disparate sources, (2) build a digital geological picture/database of an area, (3) conduct visual interpretation of remote sensing data, and (4) create complex analysis projects for decision-making. The course is taught by an experienced petroleum explorationist who has successfully used GIS software in his consulting business for many years.

## ***Course Outline and Topics***

Tutorial 1: The ArcGIS interface, feature class data, ArcCatalog and ArcToolbox

Tutorial 2: Creating, printing and embedding a map

Tutorial 3: Data symbolization and thematic mapping

Tutorial 4: Coordinate reference systems and map projections

Tutorial 5: Incorporating raster data

Tutorial 6: Sources of existing data sets

Tutorial 7: Creating your own data layers

Tutorial 8: Organizing your data – a brief introduction to geodatabases

Tutorial 9: Putting it all together – creating GIS projects for analysis/decision-making

## ***Instructor***

Joseph Forrest is a geologist with 35 years of experience in the petroleum industry, having worked as an explorationist and development geologist with a major E&P company and an independent, and in international business development with a petroleum service company. His work includes projects in over 35 petroleum basins worldwide in some 20 countries. At present he works with a group of geologists and geophysicists doing regional and basin analysis and prospect evaluation, as well as marine and fluvial environmental projects, public health and emergency management issues, rural water systems, and documentation of human rights violations in developing countries, all of which utilize GIS, GPS, remote sensing and field work as a basis for geospatial analysis and mapping. Joe holds a bachelor's degree from Middlebury College, a PhD in structural geology from Rice University and the Graduate Certificate in GIS from the Department of Geography of the University of North Carolina at Chapel Hill. Joe is also an ESRI Authorized Training Partner.

## ***Cost and Registration***

The cost of the course is \$995 per participant. Included in the price are the course manual plus a supplemental exercise book, morning and afternoon beverages and snacks, and use of computer and software. Hotels and lunches are the responsibility of participants.

To register and pay online go to the following URL:

<https://resourcegeoservices.webconnex.com/ArcGISIntro/EarthScientists>

## ***For Further Information***

For questions or further information about the course, call Joseph Forrest at 919-732-4991 or send an e-mail to [jforrest@resourcegeoservices.com](mailto:jforrest@resourcegeoservices.com).



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

President  
Chris Gordon

Vice President  
Steve Zody

Secretary  
Amy Lang

Treasurer  
John Miller

Trustees  
Bill Rike  
Nicole Venteris  
Don Jennings  
Frank Majchszak  
Clark Scheerens

AAPG Delegates  
John Forman  
Larry Wickstrom

Alternate  
Paul Archer  
Steve Zody

Webmaster  
Jim McDonald

## CALENDAR

- June 11-13    PTTC/I.C. White Symposium 2010 Spring Field Trip  
*Marcellus Core Workshop and Field Trip, Eastern West Virginia  
Overthrust Belt*  
[www.pttc.org](http://www.pttc.org)
- June 17        SPE - 28th Annual Rollin McClelland Memorial Golf Outing  
Wilkshire Golf Club, Bolivar, OH  
[ohio.spe.org/](http://ohio.spe.org/)
- August 1-3    OOGA Summer Meeting  
Sawmill Creek Resort, Sandusky, OH  
[www.ooga.org](http://www.ooga.org)
- August 24     PTTC Workshop  
*Benefits of the Environmentally Friendly Drilling System Program for  
Marcellus Shale Producers*  
Morgantown, WV  
[www.pttc.org](http://www.pttc.org)
- September  
11-15         AIPG 47<sup>th</sup> Annual Meeting & Conference  
Royal Plaza Hotel, Lake Buena Vista, FL  
[www.aipg.org](http://www.aipg.org)
- September 16    OGS Golf Outing  
Chapel Hill Golf Course, Mount Vernon, OH  
[chapelhillgolfcourse.com](http://chapelhillgolfcourse.com)
- September  
25-29         ES AAPG Meeting  
Radisson Plaza Hotel & Suites, Kalamazoo, MI  
[aapgesmeeting2010.mbgs.org](http://aapgesmeeting2010.mbgs.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).