



Ohio Section American Institute of Professional Geologists

Spring Issue

April 2011

Chartered 1965

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The Ohio Section of AIPG Welcomes *Ohio EPA Director Scott J. Nally*

Who will discuss New Directions at Ohio EPA and Implications for Ohio's Geological Community

Date: Thursday, April 28, 2011

Location: LaScala Italian Bistro; <http://www.lascalaitalianbistro.com/LaScala.html>

Schedule: Social Hour 5 pm; Dinner 6 pm; Presentation 7 pm

RSVP: President-Elect Greg Kinsall, (614) 526-2040;
Greg_Kinsall@coxcolvin.com

See full announcement on page 4

The Ohio Geological Society Proudly Presents

State of the 2011 Uranium Industry in the U.S. and Overseas

Michael D. Campbell, P.G., P.H.

Date: Thursday, April 21, 2011

Schedule: Lunch at 11:30, presentation at 12:30 pm

Location: Ramada Plaza Hotel & Conference Center;
4900 Sinclair Rd., Columbus, OH 43229
www.ramadaplazacolumbus.com/

RSVP: Bill Arnholt, 614-457-1024; barnholt@northwoodenergy.com

See full announcement on page 5

MESSAGE FROM THE PRESIDENT

Tom Berg, CPG-08208



Dear Ohio Section CPGs, Members, and Student Affiliates:

In my first message as your President for 2011, I offered five priorities for the AIPG Ohio Section (See Winter Issue, February, 2011). Those priorities included: 1. Provide high-quality services to the membership; 2. Increase the membership; 3. Elevate the Ohio Section as one of the most reliable, consistent, and visible geoscience resources for government policy makers; 4. Revisit Ohio's need to legally define geology, professional geologist, and geologic practice; and 5. Promote and support geoscience careers and education by establishing and maintaining AIPG Student Chapters at Ohio geology departments. I tried to make it very clear that we need the help of our membership to move ahead with these priorities. I need you—our CPGs, Members, and Student Adjuncts—to work with me to advance the Institute in Ohio. Please volunteer! Please call me at 614-431-2480 or email me at tberg@columbus.rr.com and let me know how you think you can help!

In the February Newsletter, I sought an Awards Chair for the Ohio Section, and I am pleased to report that Curt Coe has volunteered to chair the Awards Committee. We are happy to welcome Curt back to Ohio after his stint in Canada. Thanks for volunteering, Curt!

With regard to Priorities 2 and 5, I spent four days in Pittsburgh in March at the joint Northeast/North-Central Section Meeting of the Geological Society of America tending the AIPG National booth with Peter Muller and Josh Bowers of the Pennsylvania Section. While there, we were delighted to sign up **101** new geology students to be Student Adjunct members of AIPG. Students visited the booth constantly, and had many questions about being professional geologists and about AIPG. Students came from many colleges and universities throughout the northeast and north-central U.S., including from Ohio: University of Akron, Ashland University, Cleveland State, Kent State, Marietta College, Ohio University, Ohio State, Shawnee State, Wittenburg University, College of Wooster, and Wright State. Of course Peter, Josh, and I had many conversations with practicing geologists, and we provided CPG applications to quite a few. We are still in urgent need of a **Student-Chapter Committee Chair**, so please contact me.

Relating to Priority 3, we are acting to become aware of new leadership directions at the Ohio Environmental Protection Agency (OEPA). As you will see announced elsewhere in this Newsletter, we have invited Mr. Scott J. Nally—new Director of OEPA—to speak at our Dinner Meeting on April 28, 2011. Mr. Nally has graciously accepted our invitation. AIPG has many, many members working in the environmental arena or on environmental issues. This is your opportunity to learn how the agency will be restructured, and how your interactions with the agency will be made more efficient. I fully expect that this meeting will be very well attended, so be sure to get your reservations into Vice-President Greg Kinsall as soon as possible!

All of our readers are aware of the financial crisis of the **Ohio Geological Survey**. Since our last Newsletter, by email contact, I personally asked every AIPG Ohio Section member to participate in the Geological Survey's online public assessment regarding usage of its services. I hope the results of that assessment will be valuable in advancing restoration of the Geological Survey's General-Revenue Funds (GRF) (\$2,000,000). In a state like Ohio with a population of 11.54 million, there is no excuse for slashing the entire GRF budget of the state's geological survey. By comparison, in the State of Illinois, with a population of 12.83 million, its geological survey receives \$6,000,000 in GRF money. The Ohio Geological Survey provides exactly the same kind of geoscientific information needed for its citizens to make wise decisions regarding water, mineral, and energy resources. It provides the crucial data required to balance natural-resource development with environmental security. It provides the essential science to assess geological hazards and protect the safety of Ohio's citizens. But it cannot do the job adequately without GRF support. I strongly urge every AIPG member to contact his or her state legislator and advocate for restoration of the Ohio Geological Survey's GRF!

Corn Ethanol Production—Potential Implications for Groundwater in the Midwest

Rodney A. Sheets Jr., U.S.G.S.

Summary: Attendance was high as guests enjoyed dinner followed by Rod Sheets informative presentation titled Corn Ethanol Production—Potential Implications for Groundwater in the Midwest last February 24th. Mr. Sheets explained that more than 5 gallons of water are needed to produce 1 gallon of ethanol, and that 2 to 4 gallons of that water are consumed (not recovered). Although consumptive water use at ethanol plants has decreased over the past few years, probably as a result of improved equipment and more energy-efficient plant designs, many ethanol facilities in the Midwest are in areas where groundwater is the primary source of water and where groundwater depletion has been recognized as a problem for long-term water availability.

As a bonus presentation, Mr. Sheets presented on potential concerns associated with the installation of geothermal systems. He demonstrated the use of a three-dimensional numerical model, which simulates heat transport based upon geothermal well array and ground water flow input. In addition, an interesting case study was presented regarding the The Ohio State Universities' recent installation of a large-scale geothermal system on the south campus. Unexpected delays and over-budgeting associated with the system served to highlight the need for geological assessments prior to the installation of future systems.

The Ohio Section of AIPG Welcomes *Ohio EPA Director Scott J. Nally*



Who will discuss New Directions at Ohio EPA and Implications for Ohio's Geological Community

The Ohio Section is pleased to feature new Mr. Scott J. Nally, new Director of Ohio EPA, next Thursday, April 28. All members and guests are welcome.

Abstract: Director Nally will overview his term priorities, including efforts to ensure agency-wide consistency, timeliness, and accountability. He will discuss Brownfields development initiatives, reorganization of the wetland 401 program, and utilization of information technology capabilities to better serve the public. Plans for a significant inter-divisional restructuring of Ohio EPA will be shared. A question and answer session will follow.

The Speaker: Ohio EPA Director Scott J. Nally was sworn into office by Governor John Kasich on January 10, 2011. He brings more than 20 years of public and private environmental management experience to the position. He is 12th director since Ohio EPA was created in 1972. As director, he leads the cabinet-level agency responsible for implementing federal and state regulations to protect human health and the environment while ensuring environmentally sound business operations and government activities imperative to economic growth.

Director Nally comes to Ohio EPA after spending the last six years as a senior manager at the Indiana Department of Environmental Management (IDEM). Prior to IDEM, he worked in the environmental field in the private sector for more than 15 years. Director Nally has an undergraduate degree in biological sciences from North Carolina State University and a Masters of Science degree from the University of Wyoming.

OGS MEETING

Thursday, April 21st

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

Ramada Plaza Hotel & Conference Center
4900 Sinclair Rd., Columbus, OH 43229
www.ramadaplazacolumbus.com/

Please RSVP for the lunch and/or meeting to Bill Arnholt at
barnholt@northwoodenergy.com or 614-457-1024

State of the 2011 Uranium Industry in the U.S. and Overseas

By

Michael D. Campbell, P.G., P.H.

[President, Energy Minerals Division](#), AAPG
Chair, EMD [Uranium \(Nuclear Minerals\) Committee](#),
Member, [Advisory Board](#), Division of Environmental Geosciences
and
Vice President and Chief Geologist/Hydrogeologist
[I2M Associates, LLC](#)
Houston and Seattle

Abstract

In this presentation, I will first briefly discuss the recent activities of the Energy Minerals Division of AAPG and of its various commodity committees. I will then discuss a range of topics involving uranium exploration and nuclear power. This will range from the pros & cons of nuclear power to public concerns, and to exploration, development and production practices and anticipated yellowcake prices.

I will then discuss the typical concerns still expressed by many anti-nuclear groups and by the media serving them, including various unrealistic expectations they hold, various forms of mis-information they believe, and various half-truths they circulate.

With the above as background, I'll summarize current conditions and our expectations on the energy picture over the next 30 years, specifically to generate electricity in the U.S., in terms of both small- and large-scale nuclear plants, and in terms of the future source of nuclear fuel (yellowcake) produced in the U.S. and overseas, where new deposits are being discovered at an increasing rate, and perhaps even from the Moon in the foreseeable future.



<http://ky.aipg.org>



<http://ky.aipg.org>

2011

Spring Field Trip & Awards Banquet

Kentucky Section

American Institute of Professional Geologist

Geology of Carter Caves State Resort Park Area

Field Trip Leaders:

Tom Lierman, Charlie Mason, and Frank Ettensohn



More information at <http://ky.aipg.org/Announcements.htm>



GATHERING, CHECK-IN & REGISTRATION

Saturday, April 30, 2011

7:30 a.m.

Carter Caves State Resort Park – Lewis Caveland Lodge



FIELD TRIP

8:00 a.m. – 5:30 p.m.

We will be leaving from Carter Caves State Resort Park's Lewis Caveland Lodge.

We will be hiking on the trails, so dress accordingly.



Also a quarry stop: Please bring a hard hat and a spare if you have one for someone else.



AWARDS BANQUET

Saturday, April 30, 2011

The Lewis Caveland Lodge Restaurant & Meeting Room

Mixer: 6 p.m. Buffet Banquet 7 p.m.

followed by the awards ceremony and a guest speaker



Attendees can earn eight professional development hours (PDHs)

Mail attached Registration Form by April 25 (page 3)

Mailing and cost information on Registration Form

E-mail Donnie Lumm by April 25, if you plan to attend:

donnie.lumm@mma1.com

For information on room reservations and camping, see Registration Form
Field trip itinerary on next page

*Highlights of the Ohio Oil and Gas (OOGA) Winter Meeting,
March 9-11, 2011*

Christopher Krumm, P.G., C.P., LEED ®AP
Stantec Consulting Services Inc.

The 2011 Ohio Oil and Gas Association (OOGA) Winter Meeting held at Hilton Easton in Columbus was the best attended the association's history, with over 750 registered attendees. Over 48 exhibition booths filled the trade show. The meeting started on Wednesday March 9th with a distinguished lecture by Jim Coleman, Jr. Director the Eastern Energy Resources Science Center, U.S. Geological Survey. The subject of the lecture which was sponsored by Ohio Geological Society (OGS), and the Ohio Section of AIPG was "Examination of Potential Factors Affecting Successful Exploration and Production of Devonian Marcellus Shale Gas, Eastern United States." Mr. Coleman reviewed the extent of the Marcellus Shale, and discussed production sweet spots, notably in northeastern and southwestern Pennsylvania. Mr. Coleman noted that four conditions are key to tapping the resource: first) the resource volume of the natural gas in the shale must be sufficient, and two) large volumes of fresh water should be available, three) the disposal cost or reclamation capacity of the fluids produced must be sufficient, and four) the formation must be amenable to fragmentation by hydraulic fracturing.

On Thursday ODNR - DMRM (Division of Mineral Resources) Chief John Husted and Mick McCormac presided over a Regulatory Workshop. Much of the discussion was on the changes in permits caused by Senate Bill 165 passed by the Ohio Legislature and signed by Governor Strickland in 2010. ODNR noted that Standard Operating Procedures for Drilling, Plugging, Safety, Well Siting, etc. were being developed and reviewed so that there was state wide consistency on ODNR rules, based on Statute. In the afternoon business session, Mike McCormic of ODNR reviewed the drilling completed in Ohio in 2010 based on the permits received. A total of 182 urban well drilling permits were issued and a total of 431 wells were drilled in Ohio in 2010, the lowest in ODNR recorded history for Ohio. The formations drilled in order of frequency were the Clinton, the Beekmantown, the Rosewell, and the Trempealeau. At total of 45 directional well permits were issued. Of the wells drilled 91 percent were developmental wells and 9 percent were exploration wells.

Tim Knobloch of James Knobloch Petroleum Company discussed the economic status of oil and gas drilling in the U.S. in Ohio. Oil prices are expected to be strong in the upcoming year while gas prices are weak, partially because of the economic slowdown and the rapid increase in supply. The price of gas was one of the major concerns in the development of the shale gas, as the price of each individual well in the Marcellus and Utica Shale is costing more than anticipated, while the price of gas has dropped from \$10 to \$12 to \$4 to \$6 MCF.

On Friday Mr. Larry Wickstrom of the Ohio Geological Survey gave an overview of the Utica and Marcellus Shale reserves in Ohio. He reviewed a calculation of the possible reserves using information that he stressed were estimates and in some cases guess work. However when

the calculations were completed, Mr. Wickstrom pointed out the potential reserves in the Shale formations may be 1.31 to 5.5 billion barrels of oil and 3.75 to 15.7 trillion cubic feet of gas. Mr. Wickstrom is hoping the additional wells planned in Ohio (about 65 permits) will yield more data and allow better estimates.

The meeting also had a legislative session. Mr. Tom Stewart, executive vice-president of OOGA, moderated discussions with Ohio Speaker of the House William G. Batchelder, Representatives Matt Huffman, and Ron Amstutz plus Ohio Senate President Tom Niehaus and Ohio Senator Chris Widener. They reviewed the Ohio budget for the upcoming fiscal years and how to overcome 8 billion dollar budget shortfall. The meeting ended on Friday with the membership luncheon featuring Charlie Cook, publisher of the Cook Report. Mr. Cook reviewed the current national political standoff over budget and policy. Powerpoints of the Winter meeting presentations can be found at the Ohio Oil and Gas Association website under the home icon and calendar of events/meetings. The link is: <http://www.ooga.org/about-ooga/2011-winter-meeting-presentations>.

Ohio Section Publication Policy **“Letters to the Editor,” Editorials, and Featured Articles**

The Ohio Section welcomes and encourages membership discourse via the Section newsletter on relevant geopolitical and geological topics, in accordance with our chartered purpose. Contributing authors are requested to abide by the following guidelines to ensure civility and professionalism.

1. Scientific interpretations should include accurate and effective references.
2. Opinion pieces should be presented with reasoning. Fellow members may choose to comment or challenge a submittal with their own contribution.
3. Authors must abide by the AIPG Code of Ethics. Any author who violates this code will not be published. Authors must be respectful to fellow members, all political parties, officials and candidates.
4. Contributions should be under one page in 12 pt. Arial font.
5. Member authors should provide their name and certification number

Please send submittals to the Editor at matt.justice@sbcglobal.net

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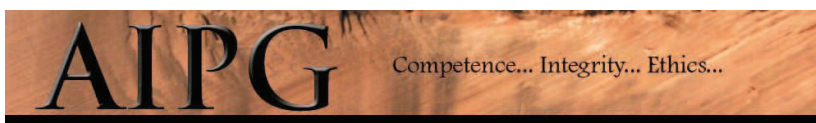


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