September Meeting and Dinner Presentation

Experience Orton Hall and the Orton Geological Museum at The Ohio State University, Columbus, Ohio

by Dale M. Gnidovec, Orton Geological Museum Curator

Date: September 25, 2014

Location: Orton Hall at The Ohio State University
155 South Oval Mall, Columbus

Schedule: Open House 5:00 to 8:00 pm; Pizza dinner at 6:00 pm; Presentation at 6:30 pm

RSVP: Member-at-Large Colin Flaherty; coflaherty@terracon.com.
Details on Page 4

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Message from the President
Curtis J. Coe, CPG-06240

It has been an active summer and for the Ohio Section Executive Committee. We hope all of you have enjoyed the warm weather and had some fun as well as relaxation this summer.

During July, it was a privilege for the Executive Committee to visit the Rosebud Mining Vail deep Mine, located in Belmont County. Mike Bohan, mine geologist for Rosebud, presented an insightful discussion of coal exploration and development in Ohio, including a presentation on the depositional environment of the Upper Freeport no. 7 coal seam. He also discussed the newly discovered tetrapod trackways discovered in the roof sediments above the Upper Freeport no. 7 coal seam. Gary Alkire, a Rosebud mining engineer and geologist, gave a detailed discussion of the engineering that went into the development of the Vail Mine permitting as well as room and pillar placement. All field trip attendees entered the mine and were able to see tetrapod tracks in the mine roof sediments up close. We all gained a deeper understanding and respect for the miners and their work that goes into the extraction of one of Ohio’s most precious resources. A more detailed discussion with photographs is in the blog section of the Ohio AIPG website.

Tom Berg and the Executive Committee have been working this summer to finalize the wording and the content of the Ohio Section bylaws, nearing the conclusion of a process that has been underway since Tom was Ohio Section President in 2011. At that time he discovered that the section bylaws were out of date and were in need of revisions to reflect advances in electronic communications as well as changes in duties of the officers of the executive committee.

One of the issues that the Committee has considered is the issue of electronic voting and e-mail. As you all know, I have made it a priority to revise the website and to make it more user-friendly for the membership. Carol Swinehart, the webmaster, is now part of the executive committee so that we can make timely changes to the website and its content. Over the last few years, we have used the website for electronic voting. Electronic voting is now included in the bylaws. The revised bylaws now more fully address and clarify many of the duties of the offices. The revised bylaws also address the interrelationship of the student chapters to the Ohio Section. I am pleased to say that we are finally ready to present the new bylaws for the Ohio Section membership for approval. A link on the Ohio website is available for all to read, comment, and vote on the new bylaws. The approval of the revised bylaws is a long process, but one well worth the effort. I would encourage each of you to read and comment on the revised bylaws.

The National AIPG meeting in Prescott Arizona will be held from September 13 through 16, 2014. During the meeting, I will be representing the Ohio Section. The newly revised bylaws will be on the agenda for discussion.

As we move forward into the fall and winter months, the Ohio Section will be working with the newly established Ohio State Student AIPG section. We are planning to have a meeting at OSU to meet the students and discuss their future planning. We will tour the Orton Hall Museum of Paleontology and Mineralogy on September 25, 2014. The annual meeting will be at the OSU Faculty Club on November 20, 2014. I hope to see everyone there.
Hello Ohio Section of AIPG Member

Former Section president Tom Berg and the Executive Committee of the Ohio Section of AIPG have worked extensively to update the Section bylaws. Revisions to the bylaws were necessary to bring the document into the 21st century by updating the roles and responsibilities of the Executive Committee and standing committees, allowing for electronic voting, and defining the guidelines to form student chapters. The Executive Committee recently approved the bylaws, and the next, and most important step, is to present the revised version to the membership, and for the membership to vote to accept or not accept the revised bylaws. We are asking you to please review the revised bylaws and vote.

To vote, please click on the following link and complete your vote as directed below: http://aipg-ohio.org/memberonly/voting.php

1) After clicking the link you will be prompted to enter a user name and password, which will be the same for all participants:

   User Name: aipgohio
   Password: CPG123

2) Links to PDF copies of the current and revised bylaws are available for viewing near the top of the voting webpage. For the revised bylaws you must either download for off-line review by right-clicking and saving the document or by opening the document in a new tab by right-clicking and selecting to open in a new tab.

3) Please vote by selecting “Yes” to approve or “no” to reject.

4) Fill in your Member Number with the prefix for your membership status (e.g. CPG for Certified Professional Geologist or MEM for Member). An example of this would be “CPG1234”

5) Click on “Submit” to cast your vote.

As indicated on the voting page, please forward any comments or questions on the revised bylaws to current Ohio Section President Curt Coe at Curtis.Coe@dnr.state.oh.us

Please vote by October 8, 2014 and thank you for your participation!

The Ohio Section of AIPG Executive Committee
You are cordially invited to the AIPG Ohio Section’s September Meeting and Dinner presentation, which will take place in Orton Hall on the campus of The Ohio State University on Thursday, September 25th. The Section is pleased to host the curator and collections manager of the Orton Geological Museum, Dale M. Gnidovec, who will be presenting the history, architecture, and collections of Orton Hall.

The event will have an open house format between the hours of 5:00 and 8:00 pm, with dinner (pizza, salad, etc.) served at 6:00 pm, followed by the presentation at 6:30 pm. The cost is $10 cash for AIPG members and guests; $5 for AIPG student members and any current college student majoring in the geosciences. Please RSVP to Member-at-Large Colin Flaherty at coflaherty@terracon.com.

Experience Orton Hall and the Orton Geological Museum at The Ohio State University, Columbus, Ohio

by Dale M. Gnidovec

ABSTRACT

Orton Hall is one of the oldest buildings situated on The Ohio State University (OSU) campus, having been completed and opened in 1893, and is named after Dr. Edward Orton, Sr., who served as the university’s first president from 1873 to 1881 and as Professor of Geology from 1873 to 1899. Following his tenure as OSU president, Orton was named as the third State Geologist of Ohio in 1882, having previously served as Ohio’s Assistant State Geologist from 1869 to 1875. Orton suffered a partially paralyzing stroke in 1891, yet he continued to serve as State Geologist and Professor of Geology at OSU until his death in 1899. The unique architectural features of Orton Hall combined with the geological story told by its building stones make the structure a fitting tribute to one of the founders and most significant early contributors to the understanding of the geology of Ohio.
Orton Hall is constructed of 40 different Ohio building stones. In the building’s exterior walls these stones are laid in stratigraphic order according to their relative positions in Ohio’s bedrock sequence. The oldest stones, which occur at the base, consist of limestone from the Early Silurian Brassfield Formation. Interior floor tiles are made from Ohio clay; wainscoting in the foyer consists of Columbus Limestone. The bell tower is encircled by 24 columns with gargoyle-like figures that are actually prehistoric animals. In addition, the capitals of columns situated in the building’s entrance hall feature carvings of fossils, including trilobites, as well as other objects such as the races of Man.

Orton Hall currently houses the Orton Geological Museum and the Orton Memorial Library of Geology as well as several offices, classrooms, and laboratories for the School of Earth Sciences. The Orton Geological Museum started with a gift from Dr. Orton himself of his own collection of 10,000 geological specimens. Today the museum’s exhibits feature not only the geologic history of Ohio but also fossils and minerals from all over the world. Among the exhibits are actual mammoth and mastodon teeth, a full-sized replica of Tyrannosaurus rex skull, a fluorescent mineral booth, and meteorites. The centerpiece of the exhibit hall is the mounted skeleton of a giant ground sloth, one of four found in the state. The museum also has a store where you can purchase dinosaur models, minerals, fossils, and books. Across the hall from the museum is the Orton Memorial Library of Geology, which is one of the largest geological libraries in the country.

ABOVE - Prehistoric animal carvings around Orton Hall bell tower;
FAR LEFT – Early photograph of giant ground sloth skeleton;
LEFT – Bust of Dr. Edward Orton, Sr., housed in the Orton Hall Library, appropriately dressed for the Christmas holiday season.
The unique architectural features of Orton Hall have made it a campus landmark. The building’s bell tower, which was dedicated in 1915, contains 25,000 pounds of bells that produce 12 chimes that toll every 15 minutes to the tune of the Westminster Chimes, and feature the OSU alma mater, Carmen Ohio. Orton Hall was added to the National Register of Historic Places in 1970.

PRESENTER

Dale M. Gnidovec has been the collections manager and/or curator of the Orton Geological Museum for the past 25 years. Mr. Gnidovec has a B.S. in geology from Muskingum College, an M.S. in geology from Fort Hays (Kansas) State University, and has done Ph.D. work at the University of Texas at Austin and the University of Pennsylvania in Philadelphia. His main interest lies within paleontology, with a special interest in dinosaurs. At the Orton Museum, Mr. Gnidovec presides over 50,000 rocks, minerals, and fossils. He thoroughly enjoys educating the public about geology and speaks to approximately 3,000 people a year in addition to teaching an Earth History course at OSU.

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<th>Calendar of Upcoming Events</th>
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<td>MARCH 11-13</td>
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Ohio Section May Meeting and Dinner Presentation Revisited

**Feature Topic:** Unintended Consequences: Phosphorus and Alum in Grand Lake St. Marys, Ohio

**Presented by:** Dr. Chad Hammerschmidt

The second AIPG Ohio Section meeting and dinner presentation of 2014 took place at La Scala Italian Bistro in Dublin on May 22, and was an enjoyable event for all attendees. The Section was pleased to host Wright State University professor Dr. Chad Hammerschmidt, who presented, Unintended Consequences: Phosphorus and Alum in Grand Lake St. Marys, Ohio.

**Presentation of Meeting Agenda and Opening Remarks**

At the conclusion of social hour, President Curtis Coe called the meeting to order and welcomed fellow members and guests. President Coe gave an update on Ohio Section activity, and noted the Section’s attendance at the recent 5th Annual AIPG Conference on the Marcellus, Utica, and Point Pleasant Shale, which took place in Columbus on April 16 and 17, 2014. Curt gave an update on AIPG student chapter activity, noting the active Wright State University (WSU) chapter, and the reactivated Ohio State University (OSU) chapter. These accomplishments are largely the result of the efforts of Student Chapters Chair Robin Roth. Curt noted how these student chapters are vital to the future of the Section, and that the membership can be helpful in promoting the Section to area colleges and universities.

President Coe stressed the importance for the membership to be active, noting that the Executive Committee meetings are open-door and the membership is welcome to attend and participate. It is the responsibility of all members to contribute in some form to the organization, from mentoring students as new members to stepping up at some point to be Section president.

The Ohio Section website was also discussed, and its importance to the future and growth of the Section. The website is in the process of becoming the chief mode of communication and source of information for the Section. President Coe also promoted the website blog, and suggested to the membership that if they have something of interest – the blog is the place to start. Curt recognized website webmaster Carol Swinehart, and promoted membership interaction with Carol.

President-Elect Tom Jenkins then introduced the featured presenter, Dr. Chad Hammerschmidt.
**Dinner Presentation by Dr. Chad Hammerschmidt**

Dr. Hammerschmidt’s presentation examined the water quality in Grand Lake St. Marys and how over the past three decades the water has been deteriorated by inputs of phosphorus, which have resulted in toxic blooms of cyanobacteria. Grand Lake St. Marys was constructed in the 1840s to serve as a reservoir for the Miami and Erie Canal. His research has shown that over 80% of the current-day phosphorus loadings to the lake are in watershed runoff that can be attributed mostly to agricultural operations. Hammerschmidt argued that the remedy to eutrophication of Grand Lake is cessation of watershed inputs of phosphorus. In contrast, the State applied about two million pounds of alum (aluminum sulfate) to the lake in 2011 in an attempt to remove phosphorus from the water column and ameliorate fluxes from sediments. We found that the alum had no effect on phosphorus levels in lake water and that the aluminum and sulfate may negatively alter benthic communities.

Dr. Chad Hammerschmidt is an associate professor of Earth & Environmental Sciences at Wright State University, where he teaches aquatic geochemistry, oceanography, and scientific communication. His research focuses on developing a quantitative understanding of the biological, chemical, and physical mechanisms and processes that affect the transport, transformation, and fate of trace metals and nutrients in marine and freshwater systems.
Field Trip to Rosebud Vail Mine
An Active Underground Coal Mine
July 25, 2014

Contributed by: Ohio Section President Curt Coe

On July 25, 2014, members of the AIPG Ohio Section Executive Committee and several guests went to visit the Vail Mine, which is an active underground coal mine operated by Rosebud Mining Company (Rosebud) near Freeport Ohio. The field trip accomplished several objectives, including the opportunity to learn about room-and-pillar technology and mining operations and to observe such operations in action. In addition, attendees were able to view a variety of trace fossils in-situ including some recently discovered tetrapod trackways in the black shale roof overlying the mined Upper Freeport (No. 7) coal.

Prior to entering the mine, Rosebud Mining Engineer and Hydrogeologist Gary Alkire, and Mine Superintendent Matt Beaver, gave a presentation on room-and-pillar mining engineering. Rosebud Mine Geologist Mike Bohan then led a detailed discussion of the mine geology and the tetrapod trackways discovered in the roof sediments. Gary, Matt, and Mike explained how Rosebud:

- Conducts a geological investigation to evaluate the coal reserves in the subsurface;
- Mining engineers use the geological data to design mining operations;
- Survey crew members lay out the room-and-pillar design based on the mining engineering principles; and
- How they comply with all environmental and health and safety regulations.

Rosebud Mine Superintendent Matt Beaver discussing mining engineering with the group.
Mike Bohan discussed the depositional environment of the roof sediments overlying the Freeport No. 7 coal – these sediments were deposited within a tidally influenced black swamp, producing laminated black shale and gray-to-black sideritic banded shale (tidalites). Dozens of amphibian tetrapod trackways have been discovered in this unit, which following deposition was briefly aerially exposed and underwent dessication, and then shortly afterward fine-grained overbank sediments were deposited over this unit. In addition to the presentation, Mr. Bohan gave a handout to each attendee including articles and additional information on the depositional environment, amphibian trackways, and mine engineering. For additional information, a link to the handout is provided here (HANDOUT).

Safety is paramount on a field trip such as this and Rosebud personnel provided training to the group. All attendees donned light-equipped hardhats and knee protection as well as steel-toed boots. Rosebud provided lunch to the group before embarking into the mine.

The tour included stops to observe the features embedded in the mine roof as well as stops to observe active mining operations. Rosebud personnel were available to answer questions throughout the tour. The following features were directly observed in the roof unit by field trip attendees at several locations:

- Tetrapod trackways – these were created by two different species as one type of tracks appeared as “round toed” and the other as “claw-like”;

- Arthropleura trackways – these were created by a large millipede-like arthropod and appear as a parallel set of small, continuous tracks separated by about three inches;
• Fossilized lycopod tree stumps – in the Vail Mine these range from 6 to 24 inches in diameter; and
• Extensive mudcracks.

To reach the active mining operations, it was necessary to travel through miles of underground tunnels by rail cars. In this photo, field trip attendees enjoy a few last moments of sunlight before plunging into the mine.

Tetrapod track in Vail Mine roof unit – appears to be the “claw-like” variety.
The following features related to mining operations were observed by field trip attendees:

- Room-and-Pillar operations to lay out the longwall panels and install infrastructure;
- Mine ventilation technology;
- Conveyor belt system for moving the coal from the mine faces to the coal washing and processing areas at the surface.
The field trip helped to provide an in-depth understanding of the Freeport No. 7 mine geology and the room-and-pillar coal mining in Ohio. The Ohio Section officers sent Rosebud Mining a thank you letter for allowing the Ohio Section the opportunity to gain a deeper understanding of the coal resources available for mining in Ohio. All attendees will now be able to provide accurate information on Ohio mining operations to the public.
In Memoriam:
David E. Harmon, Jr., CPG-02789

The Ohio Section learned this summer with great regret of the passing of former Section President David E. Harmon, Jr., 81, of New Concord, Ohio, on April 23, 2014. David was the AIPG Ohio Section President in 2005. He spent over 50 successful years in the oil, gas, and mineral exploration industry and was a Co-Founder and Partner of Presidential Oil & Gas, LLC.

David graduated from Marietta College in 1954, where he obtained a B.S. in Geology. He was a member of Lambda Chi Alpha fraternity, serving as chapter Treasurer, elected to Beta Beta Beta for Biology Honors, and was a Historian and Vice-President of the Senior Class. He was also a Coxswain for the JV crew team and a member of Omicron Delta Kappa, a national leadership honor society. After college, Dave served in the U.S. Army, 101st Airborn Division, in the Corp of Engineers. Recently, Dave was inducted into the Marietta College Geology/Petroleum Engineering Hall of Fame.

Dave was an active contributor to the geologic profession, and also served as President of the American Association of Petroleum Geologists, Eastern Section. He was a life member of the Society of Petroleum Engineers; a senior fellow of the Geology Society of America; a member of the Ohio Geological Society; an Honorary Life Member of the Knights of Columbus, both 3rd and 4th Degree. Besides his energy at work, Dave was also an outgoing active and strong supporter of the local Arts, his children's local school districts, and his college alma mater where he served on the board of directors for the Marietta College Alumni Association. Dave will be profoundly missed by his family, friends, and relatives. He was a devoted husband, a giving father, and a friend to all he met. He will be missed by the AIPG Ohio Section. ●
Ohio Section Awards Committee Seeks 2014 Nominations

It’s not too early to begin considering potential Awards recipients to be presented at the Ohio Section Annual Meeting in November. Please submit nominations to Awards Committee Chairman, Curtis J. Coe via e-mail at Curtis.Coe@dnr.state.oh.us.

Award categories and criteria area include the following:

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<tr>
<th>Award of Honor</th>
<th>The Award of Honor is presented to individuals that have a demonstrated record for distinguished service, as acknowledged by receipt of two of the available awards.</th>
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</table>
| Outstanding Public Service | The Outstanding Public Service Award is presented to those individuals that have made outstanding contributions to the public health and welfare during their career through:  
  • Expert testimony to governmental units  
  • Distinguished service on governmental commissions and committees  
  • Geological expertise where needed by the public at large |
| Outstanding Service to the Profession | The Outstanding Service to the Profession Award is presented to those individuals that have given to the profession by a:  
  • Long record of service  
  • Improvement of the profession as an articulate and effective advocate  
  • Emphasis on the profession/public interface |
| Outstanding Service to the Institute | The Outstanding Service to the Institute Award is presented to those individuals that have made outstanding contributions of time and effort to the Ohio Section – AIPG |
| Certificate of Merit | This certificate is presented to individuals who have demonstrated meritorious or unusual service to the president of the Ohio Section. Nominations are made by the Ohio Section President. |
| Outstanding Achievement Award | This award is presented to those individuals who have made an outstanding geologically related contribution to either the geologic profession or the general public. This award is open to individuals inclusive of:  
  • Government  
  • Other professions  
  • Other Scientists  
  • Academicians and  
  • Media Professionals |
Announcement
2014 GLS-SEPM Fall Field Conference:

STRATIGRAPHY, PALEONTOLOGY, AND DEPOSITIONAL SETTING OF UPPER DEVONIAN BLACK SHALE AND ASSOCIATED STRATA OF NORTHEASTERN OHIO

Sponsored by Great Lakes Section-Society for Sedimentary Geology (GLS-SEPM), Northern Ohio Geological Society, Ohio Geological Society Fall Field, American Institute of Professional Geologists Ohio Section, and Cleveland Museum of Natural History

Leaders: Gordon Baird, Joe Hannibal, John Wicks

DESCRIPTION

We will visit outcrops of Upper Devonian black shale and associated strata in Cuyahoga and Summit counties, Ohio. This includes the Chagrin and Cleveland Members of the Ohio Shale, the Bedford Formation, and the Berea Sandstone. We will discuss the stratigraphy, paleontology, and depositional setting of these units, with an emphasis on interpretation of more problematic aspects of these units such as the nature of the erosional pyrite bed at the base of the Cleveland Shale, the possible location of the end-Devonian mass extinction event (Hangenberg biocrisis) in this rock sequence, and the origin of the deformation (regional tectonism?) seen at some of the outcrops. Regional maps, cross-sections, and well logs will be used as aids in interpreting the sequences represented. We will also discuss the geochemistry of organic-rich black shale facies of the unit.

REGISTRATION

Follow link at http://isgs.illinois.edu/sepm and download page. Space is limited; payment must be received by September 18.

ITINERARY

Friday, October 3

5–9 PM: Registration at the Environmental Education Center, 3675 White Pine Road, Peninsula, OH, Cuyahoga Valley National Park (Dinner on your own)

8 PM: Introduction and Overview of the trip
Saturday, October 4

7:00 AM: Breakfast for those staying in the dorms

8:15 AM: Bus departs Cuyahoga Valley Environmental Education Center

8:15 AM–6:30 PM: Field trip to sites in Cuyahoga County, including classic sites along Euclid Creek, West Creek (Skinners Run), and the Rocky River (box lunch at one of the sites). Arrival back at Environmental Center approximately 7:00 PM. Dinner on your own (maps to eateries provided).

SUNDAY, October 5

8:30 AM Breakfast for those staying in the dorms

9:30 AM –12:30 PM Field trip to Deep Lock Quarry, Brandywine Falls, and other localities within the Cuyahoga Valley National Park. We will meet at the sites; Maps will be provided.

NOTE: SOME STOPS WILL INVOLVE WALKING IN WATER. WE RECOMMEND RUBBER BOOTS IF YOU DO NOT WANT TO GET YOUR SHOES OR HIKING BOOTS WET. Hammers will be useful but collecting is not permitted in the National Park and the Metropolitan Parks we will visit.

MORE INFORMATION
Contact Joe Hannibal (jhanniba at cmnh.org)
2014 Fall Field Conference:
Stratigraphy, Paleontology, and Depositional Setting of the Upper Devonian Black Shale and Associated Strata of Northeastern Ohio
Sponsored by
Great Lakes Section – Society for Sedimentary Geology (SEPM),
Northern Ohio Geological Society, Ohio Geological Society, American Institute of Professional Geologists, and Cleveland Museum of Natural History

REGISTRATION FORM & RECEIPT

SPACE IS LIMITED; FEES MUST BE RECEIVED BY SEPTEMBER 18th, 2014

Registration Fees cover attendee’s Friday evening orientation, guidebook, box lunch and bus transportation on Saturday, snacks and refreshments.

Name: ______________________________________________________________

Affiliation: ___________________________________________________________________________

Mailing Address: __________________________________________________________________________

City: ______________________________ State: _____________ Zip Code: _____________

Phone: ___________________________ E-mail Address: _____________________________

Any special food requirements _____________________________________________________________

_______ Full-time-student registration: $45

_______ Non-student member of Great Lakes SEPM, SEPM, AAPG, Northern Ohio Geological Society, Ohio Geological Society, AIPG Ohio Section registration: $85

_______ Non-student participant (who is not a member of any of the organizations listed above) registration: $95

_______ Dorm-style accommodations within Cuyahoga Valley National Park (recommended but you may arrange your own accommodations elsewhere). Includes Friday AND Saturday night stay, linens and towel (but no pillow), and a nice breakfast Saturday and Sunday: $79

_______ Optional donation to help support the low student registration rate: (pick an amount)

_______ Total enclosed

PAYMENT: check or money order payable to: CMNH

Mail Registration Form and Payment To: Joe Hannibal
Cleveland Museum of Natural History
1 Wade Oval Drive
Cleveland OH 44106
Important Reminder – Deadlines Fast Approaching

Meeting Preview Circular Now Available
Download the ESAAPG 2014 Preview Circular for meeting details including titles of the talks & posters

Meeting Registration
Register by September 8th to obtain the early registration rate.

Hotel Reservations
Book your hotel room by August 29 to qualify for the conference rate. Guests calling in to the Hotel’s Reservations Department must specify the American Association of Petroleum Geologists when reserving to access negotiated rates. Guests can contact the Hotel directly at 1-800-210-9336. Individual reservations must be guaranteed with a credit card or advance deposit.

Field Trips
If you are registering for the field trips, please read and sign the waiver forms.
FT1 – Devonian Structural Traps: MacGregor Quarry and the Oil Springs Historical Oil Field
FT2 – A Geological and Hydrogeological Hike in the Niagara River Gorge
FT3 – Ontario Power Generation’s Proposed Deep Geologic Repository for Low & Intermediate Level Waste: Bruce Nuclear Site

Short Courses
SC1 – Hydraulic Fracturing of Shale Reservoirs
SC2 – Microseismic Monitoring of Hydraulic Fracture Stimulation
SC3 – Paleozoic Organic-Rich Mudstones of Ontario: Core analysis of the Collingwood Member, the Blue Mountain Formation, and the Kettle Point Formation

ES-AAPG Young Professional Meet & Greet Event
Sunday, September 28, 7:15 - 9:30 pm

AAPG Division of Professional Affairs Luncheon
Monday, September 29, 12:00 - 1:30 pm

Labatt Brewery Tour
Monday, September 29, 7:00 - 10:00 pm

All-Convention Luncheon
Tuesday Sept 30, 12:00 - 1:30 pm

William A. Zagorski, Vice President – Geology – Southern Marcellus Shale Division, Range Resources – Appalachia LLC

“Appalachian Basin Unconventional Reservoirs – A Discussion of Past, Present and Future Play Trends”

Travel Checklist
Please ensure that the following items are checked off before making the trip.
1. Passport
2. Travel Insurance
3. No firearms into Canada
4. Hotel arrangements

Meeting Website
https://www.esaapg2014.org/
Letters to the Editor and Editorial Submittal Guidelines

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. Letters to the Editor should be under one page in 12 pt. Arial font.

5. Member authors should provide their name and certification number.

6. The Ohio Section also welcomes and will consider relevant articles from non-members, provided contributions abide by the above stated guidelines.

Contributions to the Ohio Section newsletter do not necessarily reflect the opinion of the Ohio Section or the editor. We reserve the right to edit for clarity and space considerations. Please send submittals to the editor at tbrown@hullinc.com.
Special Offers For AIPG

EARN $100
When you open a new Premier Checking Account with direct deposit of your paycheck.

EARN UP TO $500
Get up to $500 in cash when you transfer an auto loan from another financial institution. Plus, no payments for 90 days!

LIMITED PARTICIPATION
4-MONTH CERTIFICATE
For members with a Premier Checking Account and direct deposit.

4.00% APY*

12-YEAR REFINANCE
NO CLOSING COSTS!
You could save thousands of dollars in interest with our 12-Year Mortgage. Plus, pay NO CLOSING COSTS! Rates as low as 3.49% APR*.

SAVE $500
Save $500 on closing costs when you transfer your current mortgage loan to Pathways.

6-MONTH INTRO RATE
3.99% APR*
Enjoy a 6-month introductory rate of 3.99% APR* on a Pathways Platinum Rewards Visa. No balance transfer fees or annual fee! Rates as low as 7.99% APR* after six months.

Grandview
1445 West Goodale Blvd.
Columbus, OH 43212
614-462-6850

Gahanna/New Albany
5665 North Hamilton Rd.
Columbus, OH 43230
614-416-7588

West Columbus
750 Georgesville Rd.
Columbus, OH 43228
614-276-6589

Plain City
490 South Jefferson Ave.
Plain City, OH 43064
614-873-6652

Delaware
879 West William St.
Delaware, OH 43015
740-363-4646

Marysville
121 Emmaus Rd.
Marysville, OH 43040
937-644-4746

*Annual Percentage Yield. Maximum participation is $1,000 and is limited to one certificate per member household. Certificate will automatically roll to a 12-month term upon maturation at regular 12-month interest rate. Offer available with new or existing Premier Checking Account with direct deposit of your paycheck. Coupon valid through May 31, 2014. Coupon must be presented at time of application.

4-Month Certificate Rate: 4.00% APY*

Limited Participation 4-Month Certificate:
For members with a Premier Checking Account and direct deposit.

12-Year Refinance:
12-Year Mortgage. Plus, pay NO CLOSING COSTS! Rates as low as 3.49% APR*.

Save $500 on closing costs when you transfer your current mortgage loan to Pathways.

6-Month Intro Rate:
3.99% APR* on a Pathways Platinum Rewards Visa. No balance transfer fees or annual fee! Rates as low as 7.99% APR* after six months.

Coupon valid through May 31, 2014. Coupon must be presented at time of application. Loan subject to credit approval. Existing Pathways loans not eligible. For cash back offer: minimum loan amount $3,000, maximum cash back $500.

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