



American Institute of Professional Geologists

Michigan Section

January 2013

From the President's Desk

I appreciate the opportunity to serve as the President of the AIPG Michigan Section for 2013. Going forward, I plan to continue the hard work of my predecessors, especially those that I have worked with directly on the Executive Committee including Past-Presidents Dawn Prell (2012), NTH Consultants, Ltd.; Don Conway (2011), Gosling Czubak Engineering Sciences, Inc.; Jason Lagowski, ARCADIS (2010); and Sara Pearson (2009), Michigan Department of Environmental Quality.

Last year, I attended the annual AIPG National meeting that was held in Rapid City, South Dakota. Each of the 25 State Chapters that participated in the National meeting presented their Annual Section Report that summarized the Chapter activities that were completed during 2012; plans for 2013, and problems and issues within each State Chapter.

The take away from the National Meeting is that the Michigan Section is very healthy and active. Our membership is the third largest among the 25 State Chapters. At the National meeting, the importance of student membership and the resources available to our membership on the updated National website (<http://www.aipg.org/>) were stressed. In keeping with AIPG's focus on students, the first edition each year of The Professional Geologist will continue to be devoted to college earth science students.

On November 16th, 2012, the 15th AIPG student chapter was chartered to Wayne State University. Wayne State University joins two existing Michigan Student Chapters that are located at Eastern Michigan University (founded 2006) and Central Michigan University (founded in 2003). Congratulations to Wayne State University, we look forward to working with their Student Chapter liaison Dr. Jeffrey Howard and their Chapter officers Paula Lancaster, President; Lauren Schraeder, Vice-President; Melissa Power, Secretary; and Michael Vandro, Treasurer.

2013 will again be a busy year for Michigan Section membership. We are planning four Section

meetings, the Annual golf outing in May, a two-day training event in June, and the annual Michigan Section field trip in August. This year, Section meetings will be held on the following dates and locations:

- March 14, 2013, Central Michigan University, Mt. Pleasant
- May 2, 2013, Western Michigan University, Kalamazoo
- September 19, 2013, Cleary University, Howell
- December 5, 2013, Kellogg Center, East Lansing

Our March 14th Section meeting will include a presentation by the MDEQ regarding their upcoming LNAPL Policy and Procedures guidance document that they anticipate will be released during late February. Also, our May 2nd meeting will be held in conjunction with the Geological Society of America (GSA) National Meeting that is scheduled to run from May 1st through the 4th and will be hosted by Western Michigan University.

The Michigan Section golf outing is scheduled for May 14th, at the Lyon Oaks golf course in Wixom. This important event is used to raise funds for the annual Michigan Section student awards. For more information, contact Bob Reichenbach at robert_reichenbach@sbcglobal.net. Thanks Bob for continuing to coordinate this event.

On June 18th and 19th, the Michigan Section and the MDEQ will again host a two-training session at the RAM Center located at Higgins Lake. This year's conference will address case studies involving issues being addressed by the MDEQ's Technical and Program Support (TAPs teams). Currently, training session topics include: in situ injection, incremental sampling, vapor intrusion, groundwater/surface water interface compliance options, and, low density nonaqueous phase liquids (LNAPL) assessment. Stay tuned for additional information that will be forthcoming.

2013 marks the third year that the Michigan Section and the MDEQ have hosted this two-day training event. The past two events were sellouts with over 150 participants attending last year's event. Kevin Lund of the MDEQ (lundk@michigan.gov) will again coordinate this two-day training session. Thanks Kevin!

Also, the Michigan Section's quarterly newsletter has been used as example for other State Chapters. Our newsletter contains announcements from National and the Michigan Section, and meeting dates not only for the Michigan Section but also other professional organizations located in Michigan. Special thanks Adam Heft who prepares the newsletter as well as manages e-mail communications with our Section membership. If you would like to contribute an article, contact Adam at heft@pbworld.com.

Lastly, in keeping with our Chapter's focus on students, the Michigan Section will continue to sponsor scholarships for Michigan teachers to participate in the MDNR's Academy of Natural Resources. The Academy is typically held during mid-July at the MDNR's conference center at Higgins Lake. The MDNR' Academy, is open to all Michigan educators (typically middle school and high school) who wish to learn more about natural resources in this week-long mixture of classroom and field experiences that are taught by a variety of professionals. For more information about the Academy, access the following website www.michigan.gov/anr or contact the MDNR's Academy of Natural Resources coordinator Kevin Frailey at (517) 373-7306 or fraileyk@michigan.gov.

The Executive Committee and I look forward to working with the Section membership. Don't hesitate to contact us with questions, comments, and ideas for future Section meetings. Feel free to contact me directly at jbarkach@glec.com.

Jason Barkach, CPG – 2013 Michigan Section President

Section Officers Reports

President: Information presented in the "From the President's Desk" article above.

Vice President: No report.

Treasurer: Checking Account Balance, January 1, 2013 \$40,150.21.

During 2012, the MI Section had total payments of \$57,166.65 and total deposits of \$72,059.92, for a net gain of \$14,893.27 for the calendar year 2012. This compares favorably to 2011 with total payments of \$37,563.88 and total deposits of \$46,438.23 and a net gain of \$8,874.35 for calendar year 2011. We spent approximately \$20,000 more on operations,

functions and scholarships/awards in 2012 compared to 2011, but took in nearly \$26,000 more in fees and payments.

The increase in revenue can probably be attributed to the success of the Summer Technical Work Shops AIPG has been sponsoring over the past two summers at the MDNR RAM Center, and to the diligent work of AIPG Committee Members and Officers acquiring sponsors for this event as well as the annual golf outing.

Certificates of Deposit Summary:

Two Certificates of Deposit (CDs) matured on November 20, 2012. These CDs were rolled over to short term (12 month) CDs at an interest rate of 0.30%. The total value of the CDs at maturity will be \$35,506.94

The total account balance of the Michigan Section as of January 1, 2013 is \$75,657.15

Secretary: Thank you for selecting me as Secretary of the Michigan Section of AIPG for 2013. It's an honor to begin service to this respected organization. In the next four years I'm looking forward to seeing how our profession will change. The discovery of new resources has triggered a demand for geologists that outstrips the supply. At the same time, I suspect the skills of young, tech savvy geologists will influence our various practices in ways we haven't predicted. There are going to be great opportunities for each of us and I'm looking forward to greeting each of you in person at our March 7th meeting.

Brian Burke, CPG – 2013 Michigan Section Secretary

November 29, 2012 Executive Committee meeting minutes are as follows:

II. Call to Order: 4:30 PM

- Attendees: Dawn Prell, Craig Savage, Don Conway, Adam Heft, Kevin Lund, and Tim Cullen.
- There were no minutes from the previous Executive Committee meeting presented for review/approval.

III. Voting Results – Secretary 2013

- The election was between Brian Burke and Linda Hensel.
- Brian Burke garnered the most votes from the membership and will be Secretary for 2013.

IV. Treasurer's Report:

- The Michigan Section financial summary is as follows as of November 29, 2012:

- The Checking Account Balance stands at \$41,214.21.
- Two CD's totaling \$13,706.61 which matured on Nov. 20, 2012 were rolled over for 11 months at a rate of 0.30%.
- Three additional CD's totaling \$21,800.33 will mature at various intervals in 2013 and 2014.
- The Executive Committee is constantly seeking the most effective rate of return on the Section's investments, however in the current economic situation, that goal has become increasingly difficult.

V. AIPG Financial Support

- 15 Teachers were awarded a \$100 AIPG Scholarship to attend the 2012 Academy of Natural Resources training session at the RAM Center this summer. The Executive Committee intends to continue this practice in 2013.
- A grant of \$500 was awarded to David Trudeau at this year's Annual Meeting for his entry into the Student Poster Competition.
- Two applications for educational grants (\$500) were received this year:
 - Dr. Peter Riemersma of Grand Valley State University submitted an application titled: "Geologic Rock Garden at Allendale Township Public School Grades K-8 Campus."
 - Mrs. Kristi Schwartz, 2nd and 3rd Grade Teacher at Bentley Elementary School in Canton, MI submitted an application titled: "Utilization of a Rock Tumbler to Study the Weathering and Erosion Processes on Various Rock Types."
 - Both applications were deemed credible and would advance geological science education of the students involved by the Executive Committee and were granted \$500 awards for their projects.
- MI AIPG is reaching out to universities to provide financial support for speakers and/or Geology programs. The support is intended to go directly to the geology program, and not the university's general fund. We are hoping that, in return, university professors will be willing to speak at our events (i.e., quarterly meetings or special events such as the LNAPL Workshop).

VI. AIPG National Update

- Larry Austin was elected as National Executive Committee Treasurer at the recent national meeting.
- John Barkach (Section VP) attended the national meeting held Sept. 22-25 in Rapid City, SD. John was not available to comment on the meeting.
- Adam Heft (Section Newsletter Editor) also attended and provided the following comments:
 - Michigan Section was one of the larger and more active on the National scene;
 - The struggle to attract and retain active members is a common problem experienced by other sections.

VII. 2012 Meeting Schedule & Speakers

- March 7th in Mt. Pleasant in conjunction with CMU Student Section, Speaker: TBD.
- May 2nd at the Fetzer Center at WMU, Kalamazoo, Speaker: TBD.
- September 19th at Cleary Univ., Howell, Speaker: TBD.
- December 5th at the Kellogg Center, East Lansing, Annual Meeting, MI Speaker: TBD.

VIII. Golf Outing/Technical Training Workshop Update (Kevin Lund)

- The annual golf outing will be held on May 14th at the Lyon Oaks Golf Course, Oakland County.
- More details will be forthcoming in the next few weeks.
- ALL Sponsors are welcome and are urged to contact Kevin Lund (lundk@mi.gov).
- A Workshop covering Site Characterization and Site Specific Risk will be offered over a two day period on June 18 – 19 at the Ralph A. MacMullan (RAM) Conference Center, Roscommon, MI on Higgins Lake.
 - Details concerning registration fees and the like will be forthcoming in the next few weeks.
 - Sponsors are urged to contact Kevin Lund (lundk@mi.gov) for information concerning the various sponsor opportunities that are available.

IX. Student Chapters

- Wayne State University Student Election.

X. Field Trips

- Tentatively scheduled for early August; details of exact date and location to be announced when available.

XI. Newsletter Dates to Remember:

- Issue Date: January 18th, Articles Due: January 11th.
- Issue Date: March 29th, Articles Due: March 22nd.
- Issue Date: June 21st, Articles Due: June 14th.
- Issue Date: August 16th, Articles Due: August 9th.
- Issue Date: October 18th, Articles Due: October 11th.

XII. Next Executive Committee Meeting

- Scheduled for March 7th in Mt. Pleasant prior to the Section Meeting.

XIII. Adjournment: 5:20 p.m.

2012 Michigan Section Annual Meeting

On November 29, 2012 the Michigan Section held its annual meeting at Cleary University in Howell. Joyce Dunkin was the featured speaker who presented “Offshore Coring Feasibility Studies – Geotechnical Investigations to Support a Potential Large Water Intake.” This topic was a bit different than many recent presentations, but was well received by those in attendance.



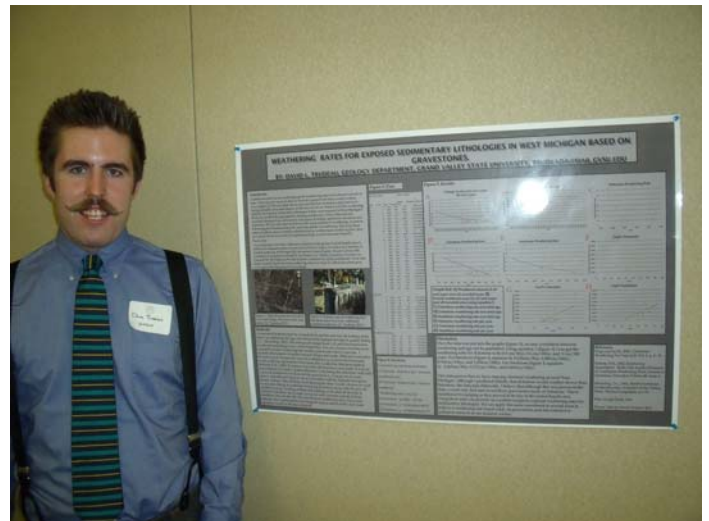
Ms. Joyce Dunkin presenting her talk titled: Offshore Coring Feasibility Studies – Geotechnical Investigations to Support a Potential Large Water Intake” at the November 29, 2012 meeting. Photograph courtesy of Adam Heft.

In addition to the featured speaker, the Executive Committee announced the results of the election for

Section Secretary for 2013. Brian Burke will be joining the Executive Committee; please congratulate Brian when you see him at the March meeting.

The Executive Committee announced that beginning with the March 2013 meeting, the cost of attendance for members will be reduced to \$30; non members will pay \$50 to attend. The reduction in member dues is a direct result of the Executive Committee’s successful efforts to generate income from other sources. Please continue to support the Michigan Section and keep the organization relevant by attending meetings, field trips, and sponsored events.

The Michigan Section has officially announced that a new student chapter of AIPG has been formed at Wayne State University. The Executive Committee extends its congratulations to the students at Wayne State University, and encourages them to attend AIPG events.



David Trudeau and his winning student poster at the November 29, 2012 meeting. Photograph courtesy of Adam Heft.

The winner of the annual student poster contest was David Trudeau of Grand Valley State University; he submitted a poster titled “Weathering Rates for Exposed Sedimentary Lithologies in West Michigan Based on Gravestones.” David was awarded \$500 to put toward his education. Congratulations David!

Adam Heft, CPG, Michigan Section AIPG Newsletter Editor

Coming Events

February 13, 2013: MBGS-SPE Joint Meeting, Michigan State University, Natural Science Bldg., Room 204, 7pm. “Collingwood Shale and other deep gas plays/Hydraulic Fracturing Update” by Mark Snow, MDEQ. Direct any questions to Arlene Anderson-Vincent at: Arlene.anderson-vincent@waters.nestle.com.

March 13, 2013: MBGS Meeting, Michigan State University, Natural Science Bldg., Room 204, 7pm. "The World's First Geological Map: The 1150 BC Turin Papyrus from Egypt" by James A. Harrell for the University of Toledo. Direct any questions to Arlene Anderson-Vincent at: Arlene.anderson-vincent@waters.nestle.com.

March 14, 2013: Michigan Section AIPG Meeting, University Center, CMU, Mt. Pleasant. "MDEQ RRD Updates on NAPL Management" by Nick Swiger.

Location: The University Center, CMU, Mt. Pleasant.

Dinner: Buffet Style, choice of Boursin Chicken, Carved Grilled Sirloin, or Sicilian Encrusted Tilapia. The entrees include garden salad, red skin potato, stir fry vegetables, rolls and butter, and desert.

Schedule: Cash Bar 5:30-6:30 PM, Dinner 6:30 PM, and Speaker 7:30-9:00 PM.

Cost: Students free, Members \$30.00, Non-members \$50.00.

RSVP by March 11, 2013: RSVP for the meeting on the Constant Contact website no later than March 11th at: <http://events.constantcontact.com/register/event?llr=hppwbcjab&oeidk=a07e6xw23op71e8e5ea>. You can pay online if you choose, or else pay at the door by cash or check if you prefer.

April, 2013: MBGS Annual BBQ Meeting, Western Michigan University, Michigan Geological Repository for Research and Education. "The Bible, Rocks and Time: Geological Evidence for the Age of the Earth" by Ralph Stearley, Calvin College. For more information contact Tom Hoane at HOANET@michigan.gov.

April 15, 2013: SPE Meeting, "Understanding Liquid Loading Will Improve Well Performance" by Robert Sutton.

May 2, 2013: Michigan Section AIPG Meeting, Fetzer Center, WMU, Kalamazoo. Speaker and meeting details TBD.

May 14, 2013: Michigan Section AIPG Ninth Annual Golf Outing, Lyon Oaks Golf Course, Wixom. Full information regarding the event is attached to this newsletter and is found on the Section website.

June 5-11, 2013: Grand Canyon Adventure: A White Water Raft Trip, sponsored by Delta College Geosciences Department and led by Dr. Tim Clarey. Space is limited; contact Dr. Clarey at (989) 686-9252 or tclarey@delta.edu.

September 19, 2013: Michigan Section AIPG Meeting, Cleary University, Howell. Speaker and meeting details TBD.

October 23-26, 2013: AIPG 50th Annual Meeting, Omni Interlocken Resort, Broomfield, Colorado. <http://www.aipg.org>.

December 5, 2013: Michigan Section AIPG Annual Meeting, Kellogg Center, East Lansing. Speaker and meeting details TBD.

Welcome New Members

The Michigan Section is continuing to grow. Please welcome the following new CPGs, Professional Members, Young Professional Members, Associate Members, and Students:

Wendy Schlett, Kelly Cratsenburg, Matt Thompson, Molly Sherwood, Jason VanBall, Kimberly Pety, Amanda VanHaitsma, Kelcie Sweeney, Megan Schaner, Sara Wild, Eric Armstrong, Matthew Garnett, David Trudeau, Carlene Gilewski, Elizabeth Vanderhoef, Melissa Schroeder, Benjamin Krogmeier, Kalan Briggs, Erica Volansky, Elizabeth Khalaf, Robert Betzler, Robin Shock, Dillon Antulis, Ashton Bullock, Virginia Adolphos, Nicholas Lieder, Matthew Dodd, Adam Hinton, Kevin Siesel, Kenneth Ott, Mark Baumgardner, Michael Vandro, Melissa Powers, Lauren Schraeder, and Paula Lancaster.

To each of our new members, the Michigan Section Executive Committee would like to welcome you to our Section, and encourage you to attend Section meetings and other events. You are also welcome to provide information for the Member's Corner articles.

2013 Michigan Section AIPG Summer Field Trip

The Executive Committee is looking for suggestions for the 2013 summer field trip. If you have any suggestions for a destination, please contact Sara Pearson at pearsons@michigan.gov or (616) 356-0253. When you make your suggestion, please include information that will help facilitate arranging the trip (i.e. trip leader, contact individual for access to the location if not public, directions, etc.).

Michigan Department of Environmental Quality News

Wagner to lead DEQ-RRD

The DEQ today announced Bob Wagner will lead its Remediation and Redevelopment Division, concluding several months of open search. The division is responsible for environmental testing, cleanup and spill response statewide. Wagner, a 20-year veteran of the agency, presently works as RRD district supervisor in the DEQ Gaylord District Office. When he begins his new role Jan. 7, he will replace acting division Chief Anne Couture, who will remain as an executive policy advisor. "I'm excited that Bob has accepted this role," said DEQ Director Dan Wyant. "His technical expertise and experience will allow him to begin addressing the division's biggest challenges immediately, and his history of strong leadership in the district and the division will help the

DEQ meet its goals of stewardship, partnership and public service throughout Michigan.”

The department took major steps this year to reform its cleanup program. Governor Rick Snyder this week signed legislation that streamlines and incentivizes the cleanup process to more quickly return Brownfields to active use.

To learn more about the DEQ Remediation and Redevelopment Division, go to http://www.michigan.gov/deq/0,4561,7-135-3306_28608---,00.html.

New Legislation Affecting Brownfield Redevelopment

Two bills concerning Brownfields were signed into law by Governor Snyder and became effective December 31, 2012.

- 2012 PA 502 (Senate Bill 1210) – this amends the Brownfield Redevelopment Financing Act, 1996 PA 381 (Act 381).
- 2012 PA 446 (Senate Bill 1328) – this amends several areas of the Natural Resources and Environmental Protection Act, 1994 PA 451 (Act 451); only the amendments to

Part 196, Clean Michigan Initiative (CMI), are discussed in this document.

The tax increment financing (TIF) incentives in Act 381 have been highly successful tools in facilitating the redevelopment of contaminated, blighted, and functionally obsolete properties. As part of Governor Snyder’s initiative to reinvent government, the Michigan Department of Environmental Quality (MDEQ) convened a Collaborative Stakeholder Initiative (CSI) designed to develop recommendations to improve Michigan’s Cleanup and Redevelopment Program. These amendments represent several of the recommendations included in the Brownfield CSI work groups report.

The amendments are designed to streamline and enhance Michigan’s Brownfield program. The significant changes to the Brownfield Redevelopment Financing Act contained in Public Act 502 of 2012 are noted below. The amendments:

- Eliminate the January 1, 2013, sunset date for the MDEQ and Michigan Economic Development Corporation (MEDC) approval of Act 381 work plans to conduct eligible activities identified in a Brownfield Plan using financing derived from school operating tax increments. This sunset elimination means that there is no longer an “end date” for the ability of Brownfield Authorities to capture

school operating taxes for Brownfield Projects, thereby providing more certainty and financial support to local governments in getting vacant, contaminated, and blighted properties back on the tax rolls, creating jobs, and leveraging private investment in Michigan communities.

- Create a new state Brownfield Redevelopment Fund (BRF) in the Department of Treasury. The revenue source for the BRF is three mills of the state education tax captured under a Brownfield Plan for projects approved after December 31, 2012. The BRF is to be used for the following activities:
 - Fifteen percent of the annual deposits to the BRF cover the administrative costs of the MEDC and MDEQ to implement Act 381, and the administrative costs of the MDEQ to implement CMI grants and loans.
 - Funding for MDEQ brownfield redevelopment grants and loans under Part 196.
 - A new Strategic Fund Brownfield grant and loan program in the MEDC to fund eligible activities.
- Provide for TIF reimbursement of additional eligible activities conducted prior to approval of a Brownfield Plan.
- Expand the definition of public infrastructure to include parking structures and urban storm water management, defined as eligible activities for TIF financing.
- Eliminate the second public notice requirement for Authorities for Brownfield Plans.
- Provide incentives for regional collaboration of Brownfield Authorities by providing additional funds for administrative costs.
- Add “historic resource” as an eligible property.
- Allow for a combined Brownfield Plan and Work Plan to streamline the process.
- Eliminate the requirements for Brownfield Authorities to reimburse the MEDC and MDEQ for their work plan review costs.

The significant changes to the Brownfields program contained in Public Act 446 of 2012 are noted below. The amendments:

- Redistribute the funding for the grant and loan program in order to increase the funding available for grants by \$12.5 million.
- Eliminate the requirement for communities to pledge their full faith and credit to apply for a Brownfield redevelopment loan.

For the bill analyses prepared by the Senate Fiscal Agency, the bold/strike versions of Act 381, Act 451, and the Public Acts, see the Michigan Legislative Website links below:

- [Act 502 of 2012 - Senate Bill 1210](#)
- [Act 446 of 2012 - Senate Bill 1328](#)

For questions regarding the bills, please contact Susan Erickson, Brownfield Redevelopment Program Unit, Remediation and Redevelopment Division, at 517-241-8707, or by e-mail at ericksons@michigan.gov.

The Michigan Chapter of the National Brownfield Association is hosting an informational program on February 21, 2013, to assist municipalities and economic development professionals with Brownfield redevelopment issues. The program will be held at the Michigan Manufacturers Association, in downtown Lansing from 9:00 a.m. to 3:30 p.m.

The focus of this program will be tips for municipalities to utilize Brownfield tax increment financing (TIF) incentives, and updates on recent Brownfield legislation. Specific topics include:

- TIF accounting
- Process for the development of a Brownfield Plan and TIF schedules
- Brownfield reimbursement agreements
- Work plan requirements
- Recent amendments to the Brownfield Redevelopment Financing Act, 1996 PA 381 and the Clean Michigan Initiative (CMI), Part 196 of the Natural Resources and Environmental Protection Act, 1994 PA 451.
- Update on the implementation of the Community Revitalization Program from the Michigan Economic Development Corporation

Registration information will be provided when it becomes available.

For website and Listserv questions, please contact Susan Norton, Remediation and Redevelopment Division, at 517-373-2113, or by e-mail at nortons1@michigan.gov.

Information from this section obtained from MDEQ Listserv emails provided by Susan Norton

Support our Sponsors!

The Section Executive Committee would like to remind its members to support the companies that are advertisers in the newsletter. Consider working with these companies, and when you speak with their representatives, let them know that you saw their ad in the Michigan Section newsletter.

2013 Golf Outing

It is not too early to begin planning for our Ninth Annual AIPG Golf Outing. We hope to continue to add to our numbers of golfers and sponsors this year. To do this, we are asking for your help. Please make a point to do your best to spread the word and participate in this event which takes place on Tuesday, May 14, 2013 at the Arthur Hills designed Lyon Oaks Golf Course in Wixom, MI. Also, please pass this information along to your service providers/subcontractors/suppliers. This event offers excellent exposure for companies that support and serve our profession.

This event has become a great opportunity to spend time with clients, network with colleagues, and celebrate the return of warm weather to Michigan. This event is open to everybody, so please come and take advantage of the opportunity.

The money raised is put toward the Michigan Section's K-12 educational grant recipients. To insure continued success, please assist us by participating, sponsoring, soliciting sponsors, and/or donating prizes or items. Call Bob Reichenbach at 734-476-5933 or Kevin Lund at 888-417-4440 to register or to offer your time to assist with the event.

The registration and sponsorship form is included in this newsletter and has been posted to the Michigan Section's website <http://mi.aipg.org/>. Click on "Golf Outing." Forms can be faxed to (888) 417-4440. We hope to see you May 14.

Bob Reichenbach and Kevin Lund, Golf Outing Co Chairs

Newsletter Notice via E-mail

Please be sure that you continue to receive the Section newsletters and other announcements. Submit an updated e-mail address to Adam Heft at heft@pbworld.com. If you move or change places of employment, don't forget to send your new contact information to both the Section and to National. If you are not receiving announcements directly from the Editor, it is because your email address is not up to date.

Section Website Reminders

As you may have noticed, the Michigan Section is working on building a database of geologic photographs on our website. We would like to continue building this collection. Please submit photographs that you are willing to share to Adam Heft at heft@pbworld.com. Don't forget to include your name and a short explanation of what the photograph depicts. The photographs will be periodically uploaded to the website once several have been received.

You will also note that the Section website now has a history page. Currently, it includes information on Douglas Houghton, Michigan's first State Geologist. We will be including information on the Section's officers in the near future. If you have suggestions on other items that should be included on this page, please let a member of the Section Executive Committee know.

Member's Corner

The Member's Corner includes information about the Section's membership. This is your chance to provide information on where you are and what you are doing. Simply send the information to the Editor for inclusion in this section.

Lately I have been thinking about how much our profession has advanced since I graduated from MSU in 1985. I attended the December Michigan Basin Geological Society meeting in Lansing where AAPG Distinguished Lecturer Ronald C. Blakey presented a slide show titled, "Using Paleogeographic Maps to Portray Phanerozoic Geologic and Paleotectonic History of Western North America." Professor Blakey used numerous published and peer reviewed paleogeographic maps to prepare time series reconstructions of the land forms and geological processes beginning 360 million years ago. Plate movements, mountain formation and sea level rises were depicted in cross section and on plan view. The slides can be easily found on-line. Professor Blakey also gave us a preview of his reconstructions of eastern North America, including formation of the deposits in the Michigan Basin. Really great stuff that I was totally unaware of immersed as I am in my own practice.

During the presentation I was thinking about how helpful these reconstructions would have been when I was a student trying to visualize these processes. In the early eighties we learned our profession without the thousands of references available today in an instant on the internet. Our computational tools consisted of Texas Instruments calculators, graph paper, an engineering scale, a French curve and drafting triangles. And this gets to my point. During the Q&A Professor Blakey told the audience that the

reconstructions were prepared by hand and scanned into Photoshop! Imagine the visualization tools that will be available to geologists in the very near future as the next wave of geologists fully use today's technology to build on the work of Professor Blakey and others. What a great time to be in the sciences!

Brian Burke, CPG, 2013 Section Secretary

Employment Opportunities/Seeking Employment/Member Opportunities

To serve our members, and provide added value, the Michigan Section Executive Committee has decided to allow ads for employment or other opportunities to be posted in the Section newsletters. Employment ads will run for one edition unless renewed. There is no cost to our members or sponsors for this service. Send your employment opportunities to the Editor.

Seeking Employment

Timothy Clarey, geologist, seeking employment in the environmental industry.

- Ph.D. in Hydrogeology from WMU
- Over 10 years of experience with WMU's Hydrogeology Field Camp
- Over 15 years conducting research/teaching in academia
- Nearly nine years of experience in oil and gas

tlclarey@yahoo.com, 989-860-6484.

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9th Annual AIPG Michigan Section Golf Outing

Tuesday May 14, 2013

Sponsor Information

Exclusive Dinner Sponsor- \$1,300

Investment includes:

- 1 foursome
- Signage at club house and lunch area
- Corporate recognition*

Beverage Cart/Oasis Sponsors - \$600 (2)

Investment includes:

- Signage at the club house and on the Beverage Cart.
- Corporate recognition*

Luncheon Sponsors - \$600 (2)

Investment includes:

- Signage at the grill.
- Corporate recognition*

Hole-in-one Sponsors - \$400 (4)

Will have visible exposure on ALL Par 3 Holes.

If a golfer hits a hole-in-one, the prize will be, either \$10,000, a golf vacation or a deluxe set of irons.

Tee Sponsor - \$200

(18) Available

Investment includes:

- Tee box signage
- Corporate recognition*

Skill Sponsors – \$375

Investment includes:

(6) Available

"Longest Drive" "Closest to Pin" awards to Male/female for each.

Putting contest for \$\$, Signage on the hole or putting area, corporate* recognition during the event (includes contest coordination [at the turn](#)).

Goodie Bag Sponsor - \$100 plus 144 goodie bag items

*Dinner and Beverage Cart/Oasis Sponsors will receive AIPG membership. All sponsors will be recognized in the Quarterly News letter and on the Michigan Section Web Site.

This event is our annual Fund Raiser. The Michigan Section of AIPG Golf fundraiser benefits the Michigan Section's ability to support K-12 education grants and scholarships.

Place: Lyon Oaks Golf Course

Event: 18-hole Scramble

Date: May 14, 2013 Tuesday

Registration: 8:00 to 9:30 AM

Tee Time: 9:30 AM

Rainout Date: May 16, 2013 (based on course availability).

Includes: Continental Breakfast, green fees, cart, range balls, Lunch on the course, networking opportunities, and DINNER.

Also includes prizes for winners, 50-50 and Grand Prize raffles along with other prizes, inc., "\$10,000 Hole in One" Trips, Putt for \$2,500, men's and women's longest Drive and Closest to pin contests, \$20 gas cards to the four golfers traveling the furthest and goodie bag for all golfers.

Golfer Sign-up Due:
May 3, 2013

Registration

Individual = \$150 Team = \$520 (4 players)

Player One: _____

Player Two: _____

Player Three: _____

Player Four: _____

Contact Name, Company and Phone Number for your Foursome:

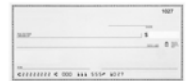
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or



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Contact:

Kevin Lund klund@g-eri.com

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CALL or FAX to reserve your place!

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The AIPG-MI Section is a nonprofit 501(c)(6) Organization

9th Annual AIPG Michigan Section Golf Outing Tuesday May 14, 2013



Arthur Hills-designed
18-hole course on 230
acres

- "Up North" feel in southwest Oakland County
- Par-72 championship golf course
- Hardwood forests and wetlands enhance natural golfing experience

- "Nature, Of Course!" interpretive signs along cart paths point out natural features of interest or significance
- Wide fairways enhance playability
- Wetlands and ponds increase challenge of play
- Sand bunkers and freshwater lakes provide a strategic challenge for accomplished golfers
- Multiple tees on every hole make the course playable and enjoyable by all level players
- State of the art practice facility with target greens and sand traps
- Picturesque clubhouse with expansive views of the course accommodates parties of up to 450 for wedding receptions, banquets and educational meetings
- [Lyon Oaks County Park](#)'s day-use area features a 13-acre Dog Park and 2.5 miles of hiking trails
- Day-use park area also includes a picnic shelter, playground and recreational fields
- Trail head and parking for Lake Community Trail

Accolades

- Included in The Oakland Press' "Ten to Try This Summer" listing of Oakland County Public Golf Courses
- Member of *Arthur Hills Golf Trail*, featuring acclaimed Art Hills courses throughout the state
- Garnered a 4.5 star rating by *Golf Digest* and named the #2 course in Detroit to play

in ESPN's *Sports Travel Golf Course Guide* of the Best Places to Play

- Named #4 in Jeff Lesson's Top 10 Public Golf Courses in southeast Michigan. (Lesson hosts "Lesson on Golf" on WXYT and WWJ radio stations)
- Named in Detroit Free Press *Top 10 Public Courses*

Yardage	GAM Ratings
Black - 6837	Men's Black Tee - 72.7, Slope 137
Blue - 6427	Men's Blue Tee - 70.7, Slope 133
White - 6133	Men's White Tee - 69.3, Slope 131
Gold - 5389	Men's Gold Tee - 65.6, Slope 115
Green - 4525	Women's White Tee - 75.5, Slope 145
	Women's Gold Tee - 70.8, Slope 131
	Women's Green Tee - 66.7, Slope 112



**Michigan Chapter
American Institute of Professional Geologists
MEETING ANNOUNCEMENT**

March 14, 2013

MDEQ RRD UPDATES ON NAPL MANAGEMENT

Featured Speaker:

[Nick Swiger](#)

Location: University Center, Central Michigan University, Mt. Pleasant, MI (Map attached)

Cost: Students Free, Members \$30.00, Non-members \$50.00. **Registration is payable electronically via constant contact (see link below) or at the door by cash or check; however, prepayment is preferred and speeds up the check-in process at the door. Please note: Cancellations made within 48 hours of the meeting and/or "No Shows" will be charged and expected to pay the registration fee.**

Dinner: Buffet Style, Choice of: Boursin Chicken, Carved Grilled Sirloin, or Sicilian Encrusted Tilapia. The entrees include garden salad, red skin potato, stir fry vegetables, rolls and butter, and desert.

Time: Cash Bar 5:30-6:30 PM, Dinner 6:30 PM, and Speaker 7:30-9:00 PM

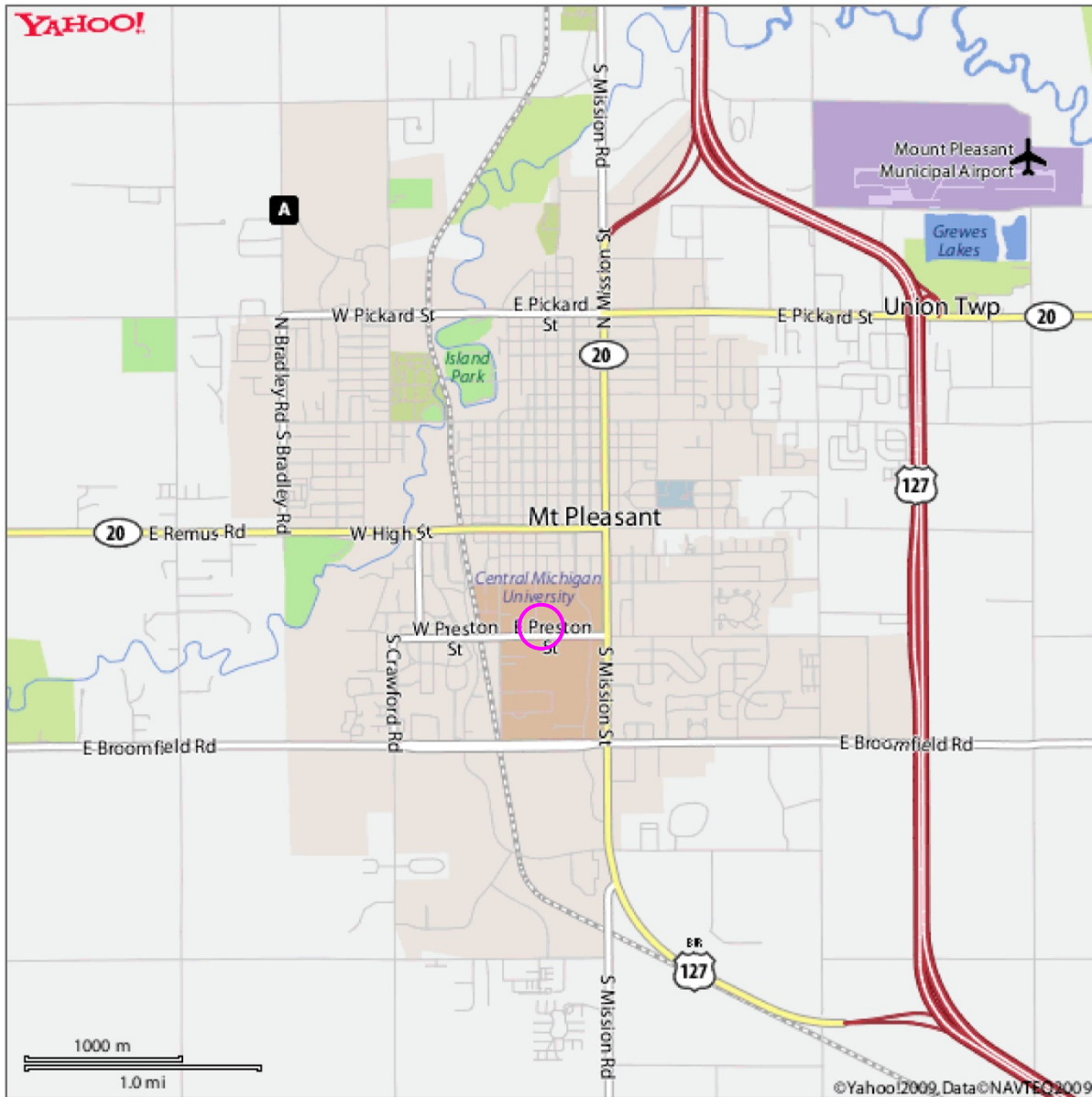
RSVP: On the Constant Contact website no later than March 11th at:
<http://events.constantcontact.com/register/event?llr=hppwbcjab&oeidk=a07e6xw23op71e8e5ea>.
You can pay online if you choose, or pay at the door by cash or check if you prefer.

Mr. Swiger is an environmental engineer for the Remediation Division in the Cadillac District Office of the Department of Environmental Quality. He has worked on a variety of site assessment and remediation projects for a variety of sites that include both leaking underground storage tank and industrial waste sites. He is currently the team leader for the Remediation Division's non-aqueous phase liquid (NAPL) technical assistance and program support team. He has a bachelor's degree in geology and environmental geoscience and a master's degree in environmental engineering.

AIPG Section Meeting March 14, 2013

University Center, Central Michigan University, Mt. Pleasant

Map of Mount Pleasant, MI 48859



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