



American Institute of Professional Geologists Michigan Section

January 2010

From the President's Desk

It is my honor to serve the organization as President of AIPG (Michigan Section) for 2010, and it is my intent to serve the membership to the best of my abilities. As we start a new decade, I look forward to fulfilling the vision and mission statement of the organization, which has been summarized below:

- The American Institute of Professional Geologists (AIPG) was founded in 1963 to certify the credentials of practicing geologists and to advocate on behalf of the profession.
- AIPG represents the professional interests of all practicing geoscientists in every discipline. Its advocacy efforts are focused on the promotion of the role of geology and geologists in society.

Ever wonder what the President of the Section does, or what any of the other Section officers do? The duties/responsibilities of the Section President are the following:

1. Presides over all Section and Executive Committee meetings.
2. Act as the official Section spokesperson.
3. Executes all documents on behalf of the Section.
4. Carries out all policies and directives.
5. Liaison with National Executive Committee.
6. Liaison with all Section Subcommittees.

In line with the first duty listed above, our first Section meeting of 2010 will be held in late February and is being sponsored by the Student Chapter at Central Michigan University. Details on the meeting are included in this newsletter. For those who attended the Annual Section Meeting held this past December at the Fetzer Center on the campus of Western Michigan University, it was a great pleasure to see all the student participation including some great posters. I look forward to supporting our student membership as the year progresses (Students are the future of AIPG). Other events planned for 2010 include our normal quarterly meetings, the annual golf outing and another field

trip, which is being planned for this summer. The executive committee will also continue to track other issues which may be relevant to our membership. Some of these issues include professional licensure, the newly formed MDNRE, status of various Geoscience Departments at Michigan universities/colleges, and other issues as they develop that affect our membership. 2010 will likely be another tough year for Michigan and those in the geosciences. As an organization, however, we can help lessen the impact of these tough times through our communications (i.e. newsletter, emails and meetings), raising awareness of key issues with the membership and through our own networking opportunities for those that maybe looking for employment. My challenge for 2010 is to be the best Steward for the Section that I can be. My challenge for individual members for 2010 is to be an active member in the Section and help make the Michigan Section of AIPG stronger than it has ever been. I look forward to a promising 2010.

Jason Lagowski, CPG – 2010 Michigan Section President

Section Officers Reports

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

Vice President: As Vice President for 2010 and outgoing Treasurer for the Michigan Section, I am pleased to report the financial status of the Section is good. The Sections' general account balance is approximately \$10,000. We have invested in five CDs with staggered maturity dates; one CD will mature in each of the next five years. It was envisioned by the executive committee that the funds generated annually from the interest of the maturing CD would be available to fund educational related grants. The principal from each matured CD (\$6,000) would then be reinvested to generate additional funds in the future.

The section broke even on each of our section meetings in 2009 except for the Vendor and Student night. In 2009 we also awarded a \$500 education

grant to Canton High School and a \$500 award to Travis Hayden, the winner of the student poster contest held at our annual meeting on December 3, 2009.

As part of our outreach to our respective communities, we should help local schools to strengthen (or at least maintain) their geosciences curriculum. One way we can do this is by informing them on the availability of our education grants and encourage their participation. We typically have not received many applications in a given year. With the economic conditions of our times, the availability of grant dollars should be well received.

Treasurer: Please Pay Your AIPG Dues

Specific information regarding the status of the Michigan Section's finances were provided to the Executive Committee during the November 20, 2009 meeting, and is summarized in the Secretary's report, below.

All members should have received their dues statement from AIPG National. After February 1, 2010 payments are considered late. After February 15, 2010, there is a \$20 late fee.

Secretary: The following is a summary of the Section Executive Committee Meeting held via conference call on November 20, 2009.

I. Call to Order: 11:30 a.m.

Conference Participants: Tim Woodburne, Sara Pearson, Jason Lagowski, Don Conway, Dawn Prell, Adam Heft

II. Treasurer's Report: Don reported that the section account balance is approximately \$10,000. In addition, the section currently has \$6,000 in each of five CD's which mature one a year for the next four years. One CD is set to mature by the end of 2009. The executive committee voted to roll the CD over for an additional five years. Interest earned from the CD's is planned to be available to fund education awards.

Don reported that the section posted a loss of \$90 from the Student Vendor Night on April 14, 2009. Extremely poor weather was cited, resulting in low member attendance.

Don also reported that the section made a profit of \$75 from the September 17, 2009 meeting at Tony M's in Lansing.

III. Secretary's Report: Dawn reported that attendance at each of the quarterly meetings held in 2009 was good with the exception of the student vendor night.

- March 5, 2009 (92 registered attendees with several additional without reservations).
- September 17, 2009 (90 registered attendees).

- December 3, 2009 (69 registered attendees with 24 participating in the MGRRE tour).

IV. 2009/2010 Education Advancement Award: Jason reported that three entries were submitted for the \$500 education award. Only one of the three conformed to the guidelines established by MI AIPG for the award. The education award of \$500 was given to Jennifer Groat, a science teacher at Plymouth-Canton Schools.

V. Correspondence:

- **Membership Directory:** Don received a request to provide the MI Section membership directory to members seeking employment. The executive committee voted not to provide contact information for members but instead directed the member to the AIPG national website where the information can be obtained. A link to the national membership directory may be posted on the MI Section website.
- **LinkedIn:** Jason received correspondence from a member regarding a Michigan Section Group on "LinkedIn". The executive committee plans to poll the membership at the next meeting to determine interest.

LinkedIn is an interconnected network of experienced professionals from around the world, representing 170 industries and 200 countries. You can find, be introduced to, and collaborate with qualified professionals that you need to work with to accomplish your goals. When you join, you create a profile that summarizes your professional expertise and accomplishments. You can then form enduring connections by inviting trusted contacts to join LinkedIn and connect to you. Your network consists of your connections, your connection's connections, and the people they know, linking you to a vast number of qualified professionals and experts. Through your network you can:

- Manage the information that's publicly available about you as a professional
- Find and be introduced to potential clients, service providers, and subject experts who come recommended
- Create and collaborate on projects, gather data, share files and solve problems
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LinkedIn is free to join. It also offers a premium version that gives you more tools for finding and reaching the right people, whether or not they are in your network. LinkedIn participated in the EU Safe harbor Privacy Framework and is certified to meet the strict privacy guidelines of the European Union. All relationships on LinkedIn are mutually confirmed, and no one appears in the LinkedIn Network without knowledge and explicit consent. LinkedIn is located in Mountain View, California and is funded by world-class investors including Sequoia Capital, Greylock, the European Founders Fund, Bessemer Venture Partners, and Bain Capital Ventures.

- **Markey-Wasman Cap and Trade Bill:**
Suggestion from Section member G. Dannemiller that the Michigan Section should vote in a similar way to the Ohio Section regarding whether it supports the Markey-Wasman Cap and Trade Bill. The executive committee voted to pole the members at the next section meeting regarding the topic.

- **2010 Field Trip:** Suggestions are requested for the 2010 summer field trip. One request for a repeat Alpena Trip. Other suggestions include a visit to a gypsum mine or a trip in Michigan's Upper Peninsula. Please provide your suggestions to a member of the Executive Committee.

- **Maintenance/Update of Section Webpage:**
The Michigan Section Website has recently gone through a major overhaul. Thank you to Adam Heft for his dedication to this important tool for our members. A few areas of the website are still under construction. Any geology related photos are welcome for posting on the website.

VI. **Next Meeting:** Tentatively planned for late February or early March. This meeting will be held on or near the campus of Central Michigan University and will be hosted by the CMU student section of AIPG with assistance of Eric Wallis and the executive committee. A portion of the profits earned from the meeting will be returned to the student section for their efforts. Topic of discussion is to be determined.

Adjournment – 1:15 p.m.

Coming Events

January 13, 2010: Michigan Basin Geological Society's January meeting will be held at Michigan State University, Natural Science building at 7:00 pm, room 204. The speaker is Ralph Taggart, Ph.D. from Michigan State University, presenting "Chasing the

Great North Woods Through Time. Please visit www.mbg.org for more information.

February 10, 2010: Michigan Basin Geological Society's February meeting will be held at Michigan State University, Natural Science building at 7:00 pm. The speaker is Dave Huey, an exploration geologist from Kennecott Minerals Corp, discussing the Kennecott Eagle Mine project.

March 2, 2010: AIPG Section Meeting: "The Detroit River International Crossing: A Precedent-Setting Geotechnical and Geophysical Investigation to Evaluate Subsurface Geological Stability in an Area of Historical Solution Mining" by Craig R. Johnson.

Location: University Center, Central Michigan University, Mt. Pleasant.

Dinner: Home-style Buffet – includes chicken supreme, beef stir-fry, cheese ravioli, garden salad, au gratin potatoes, fresh green beans, apple pie.

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

Cost: Students \$10.00, Members \$35.00, Non-members \$40.00.

RSVP by February 26, 2010: RSVP to John Barkach at jbarkach@glec-tc.com. Notice by e-mail is preferred, and please include AIPG in the subject line. John can also be reached at (248) 489-0900.

May 11, 2010: 6th Annual AIPG Golf Outing to be held at the Lyon Oaks Golf Course in Wixom. Full details, including a registration form for the Outing, are attached to this newsletter, and may also be obtained from the Section website.

September 11-15, 2010: 47th Annual AIPG National Meeting, to be held in Orlando, Florida. Full details will be available on the AIPG website at: www.aipg.org, and in upcoming issues of TPG.

September 26-28, 2010: AAPG Eastern Section Meeting, sponsored by the Michigan Basin Geological Society and the Michigan Geological Repository for Research and Education. The meeting committee is in need of volunteers to chair committees and to assist on committees. Anyone interested in participating in a committee should contact Robb Gillespie for information via email at robb.gillespie@wmich.edu.

National Secretary Commentary

I am beginning my term as the 2010-11 National Secretary. I currently have nothing to report to the Section; however, the first National Executive Committee Meeting will be held February 12, 2010 in Tucson, Arizona. I will provide an update in the newsletter edition after this meeting. If anyone has any comments or concerns that they would like presented to the National Executive Committee, please feel free to send them to me, and I'll take them to the meetings. If you prefer, I can make the comments anonymous. Please speak up; this is your chance to provide input directly to the national

executive committee. Both compliments and criticisms are welcome.

Adam Heft, CPG –Michigan Section Newsletter Editor

Annual Golf Outing

It's January 2010; do you have your foursome together yet? It is not too early to begin planning for our sixth annual AIPG Golf Outing. We hope to add to our numbers of golfers and sponsors this year. To do this we're asking for your help. Please make a point to do your best to participate in this great event which takes place on May 11, 2010; it will again be held at the Arthur Hills designed Lyon Oaks Golf Course in Wixom. Also, please pass this along to your service providers/contractors/suppliers. This event offers excellent exposure for companies that support and serve our profession.

Our sponsorship and golf prices remain unchanged from last year. This is a great opportunity to spend time with clients, network with and celebrate the return of warm weather to Michigan. This event is open to everybody, so please come and take advantage of the opportunity. In comparison to similar events in our profession, the AIPG Golf Outing is a great value.

The dollars raised from this event are put toward the Michigan Section's K-12 educational grant award recipients. To insure continued success you can assist by participating, sponsoring, soliciting sponsors, and/or donating prizes or items for "goodie bags". 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 website <http://mi.aipg.org/> on the Golf Outing page. Completed forms can be faxed to (888) 417-4440. We hope to see you May 11, 2010! SAVE THE DATE, and thanks in advance for your assistance.

Bob Reichenbach, CPG and Kevin Lund, CPG – Michigan Section Golf Outing Co Chairs

Michigan Section Award Recipients

At the Section Annual Meeting in December, the Michigan Section gives different awards to its members. For 2009, the only awards given were the Longevity Award and Student Poster Award. The following is a listing of those individuals that passed significant longevity milestones:

30 Years: PD (name abbreviated at the individual's specific request).

25 Years: Burrell Shirey

20 Years: Charles Moskowitz

15 Years: Douglas Barber, John Barkach, Mike Belsito, Jim Bradley, Don Conway, Tim Cook, Dan Dyer, Joe Edwards, Phil Emmons, Mark Evans, Greg Foote, Hosam Hassanien, Mike Hebert, Hugh Heuvelhorst, Alfred Jordan, Tim Mayotte, Jeff McCormack, Mike McDuffee, James Mersereau-Kempf, Mark Parrish, Sandy Pelowski-Bresson, Mike Peters, Mark Petrie, Mike Piddington, Ed Radecki, Mike Ripley, Joe Sarnecki, Mark Seaman, Jill Van Dyke, Richard Verstrate, Mike Wilczynski, and Mark Zayatz.

10 Years: Lesa Bagby, Gary Blinkiewicz, Graham Crockford, Loren Curtis, Sara Pearson (who should have been listed last year), Marc Wahrer, and Mark Wollensak.

A \$500 student poster award was made at the December meeting to Travis Hayden of Western Michigan University. Congratulations Travis!

The Michigan Section also awarded a \$500 educational grant to Plymouth Canton Schools. Science teacher Jennifer Groat applied for and received the 2009 educational award. The grant money will be put toward the school's inquiry-based learning system, and will be used to purchase a variety of items, including glass and streak plates, magnets and iron filings, and other items. The award will benefit three earth science teachers and at least 270 students.

Although normally awarded, the Michigan Section did not receive any nominations for its other awards (Outstanding Geologist, Significant Contribution to the Michigan Section, Outstanding Regulator, or Outstanding Educator). The Michigan Section Executive Committee requests its members to consider providing nominations for these positions. The nomination form and information is available on the Section website under "Awards."

Congratulations to all the Michigan Section awardees!

December Section Meeting Summary

The Michigan Section annual meeting was held on December 3, 2009 at the Fetzer Center on the campus of Western Michigan University, with a pre-meeting tour of the Michigan Geological Repository for Research and Education facility.

The turnout for the meeting was good, with 69 participants, 24 of whom took the tour of the MGREE facility. The meeting also included a record number of student attendees, with five of them bringing technical posters for review. These posters were judged by the meeting attendees, and Western Michigan University student Travis Hayden's poster titled "The Chesapeake Impact Structure:

Differentiating Regional Tectonics from Impact Signatures” was judged the winner.



Photos from the MGREE tour showing shelves of rock core and the WMU-MGREE CoreKids program display. Photographs courtesy of Sara Pearson.



Members viewing the student posters before dinner at the Fetzer Center. Photograph courtesy of Tim Woodburne.

Meeting participants enjoyed dinner and then an educational talk provided by Dr. David Barnes and Dr. David Karowe on “Climate Change: An Interdisciplinary Science Presentation.”



Sara Pearson and the student poster authors just before the presentation of the \$500 student poster award. Photograph courtesy of Tim Woodburne.

Michigan Licensure Update

The PG bill package is essentially dead. I am interested in ideas for getting the bills reintroduced but with an election year on the horizon and our current economy this could prove difficult, unless it's politicized (via the new DNRE, the new federal energy bill or some other force).

Frankly, pushing this initiative requires a fair amount of commitment (time, energy, and to a lesser extent, money) from several folks. The time scale for the most recent push began a little over six years, with ebb and flow. In the past, most of this work was completed by Kevin Lund, Eric Wallis and I. Tim Woodburne also chipped in with assembling a draft white paper to promote the need and benefits for licensure. Others participated with occasional meetings and provided review and comments to us. We also met with many groups (engineers, planners, etc.) to gain consensus, receive letters of support, and legislative backing. We were met first with opposition from MOGA and then later suffered a lack of legislative support.

Whether a real or perceived issue, MOGA appears to fear a change from the status quo. As for the politicians, most seem to be preoccupied with self promotion, getting re-elected, or lack backbone to support our licensing efforts.

So we are at a cross-roads.....with all that is happening at the federal and state level perhaps its time to engage MOGA and in the process and push ahead or set this down and pick it up later.

I feel compelled to move forward with the licensing effort, but frankly, the effort will require help from others. Many voices are more likely to be heard, and it will be easier and hopefully more effective with several to help shoulder the load. If someone out there is willing to help with the licensure efforts or have questions about how they can help, please contact me at wbolt@manniksmithgroup.com.

Walt Bolt, CPG

Welcome New Members

The Michigan Section is continuing to grow. Please welcome the following new CPGs, members, and students:

Christian Seidel, Shannon Molaroni, Mary Russo, Elizabeth Wilson, Jaclyn Clark, Joseph Sadorski, LeAnn Germer, and Kristina Revels.

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.

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.

Newsletter Notice via E-mail

Save us costs and more quickly receive meeting announcements and newsletters. 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.

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 Adam Heft for inclusion in this section.

Getting to Know Your Secretary: John Barkach, CPG...

I am a Senior Program Manager and Hydrogeologist with Great Lakes Environmental Center. GLEC's is an employee owned, environmental service provider specializing in surface water and sediment quality assessments, fish and macroinvertebrate population studies, surface water and sediment toxicity and bioaccumulation studies, and water quality criteria development. Our clients include industry, municipalities, and state and federal regulatory agencies.

Because we spend much of our field time on or next to the water, GLEC has a large assortment of work boats and electrofishing equipment, surface water and sediment sampling equipment, including vibracore sediment sampling equipment. We employ approximately 60 people. Our main offices, as well as toxicity and nutrient testing laboratories, are located in Traverse City, Michigan and Columbus, Ohio. I work in our Farmington Hills office.

For the past 25 years, I have worked as a consulting hydrogeologist, primarily working on MDEQ Part 201 and federal RCRA Corrective Action site investigations, remediation, and closure. I received my M.S. degree in Hazardous Waste Management from Wayne State University during 1991 and a B.S. in Geology from Michigan State University during 1983. I am a Licensed Professional Geologist in Arkansas, Illinois, Indiana, and Wisconsin. Since joining GLEC in 2003, I primarily work on projects involving contaminated sediments, surface water and

groundwater, and in particular, groundwater/surface water interface evaluations.

I am married to my wife Cynthia for over 24 years and together we have three children, Timothy (17), Catherine (15), and Anna (9). In our "spare-time," we enjoy the outdoors, attending our children's numerous athletic events, and spending time with friends and family.

John Barkach, CPG –2010 Michigan Section Secretary

MDEQ Update

As of January 17, 2010, the Michigan Department of Environmental Quality (MDEQ) will cease to exist with the transfer of both the MDEQ and the Michigan Department of Natural Resources (MDNR) into the new Michigan Department of Natural Resources and Environment.

Bruce Rasher was appointed by Governor Jennifer Granholm last October to be the transition manager tasked with the job of laying the foundation for the new resource management department. Since October, Mr. Rasher has formed teams, requested input from both MDNR and MDEQ staff, and met with stakeholders to collect information and prepare recommendations for the new department. Mr. Rasher has submitted a plan to Governor Granholm for the new department which included recommendations for organizational structure, management model for the MDNRE, and an overall schedule for transition.

In a December 30, 2009 interview with Spinal Column Newsweekly, Mr. Rasher commented on the goal for the new MDNRE to be a leaner and more efficient department. He indicated that changing the structure of the organization will be one method for achieving this goal. He is quoted as stating, "One is the structure of the organization that I will be recommending will be what's known as a matrix organization in that it will create dual authority both through division structure, centralized in Lansing, and a regional structure. There will be four regions. I'm recommending that four districts be structured according to a lake basin or watershed model. There would be a region in southeast Michigan for the Lake Erie basin, northeast Michigan for the Huron basin, west Michigan for the Lake Michigan Basin, and the Upper Peninsula would be the fourth region."

The transition into the new department is expected to continue through 2010. We'll continue to provide updates in the AIPG Michigan Section newsletters throughout the year.

Sara Pearson, MDEQ Senior Geologist, CPG 10650

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AIPG – Sixth Annual AIPG Michigan Section Golf Outing

Tuesday May 11, 2010

Sponsor Information

Dinner Sponsor- \$900

Investment includes:

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

Beverage Cart/Oasis Sponsors - \$500

Investment includes:

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

Tee Box/Award Sponsor - \$175

18 Available

Investment includes:

- Tee box signage
- Corporate recognition*

Skill Sponsors – \$350

Investment includes:

5 Available

"Longest Drive" "Hole in One/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 through November 2010.

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**

<http://www.oakgov.com/parksrec/ppark/lyon.html>

Event: **18-hole Scramble**

Date: **May 11, 2010 Tuesday**

Registration: **8:00 to 9:30 AM**

Tee Time: **9:30 AM**

Includes: Green fees, cart, range balls, lunch on the course, Networking PRIME RIB Dinner and a raffle ticket for the grand prize.

50-50 raffle, and raffle the grand prize HDTV along with other prizes, "\$10,000 Hole in One" Ace, 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.

Individual = \$115 Team = \$430 (4 players)

Player One: _____

Player Two: _____

Player Three: _____

Player Four: _____

Contact Name, Company and Phone
Number for your Foursome

Make Checks to:
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C/O GEO-environmental Resources, Inc.
2531 Jackson Road
Suite #164
Ann Arbor, Michigan 48103

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Kevin Lund klund@g-eri.com

Bob Reichenbach bob@ergrp.net

CALL or FAX to reserve your place!
888-417-4440

The AIPG-MI Section is a nonprofit 501(c)(6)
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Golfer Sign up Due by:
May 3, 2010

AIPG – Sixth Annual AIPG Michigan Section Golf Outing

Tuesday May 11, 2010



Arthur Hills-designed
18-hole course on 230
acres

- "Up North" feel in southwest Oakland County
- Par-72 championship golf course
- Get in the game faster - play afternoons 12:30 - 3:30 p.m.
- 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

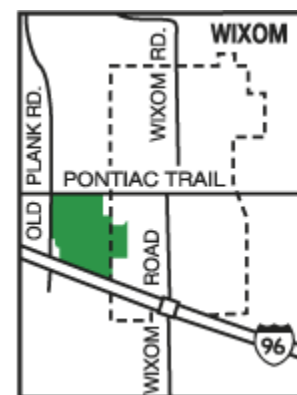
Accolades

- Included in 2008 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 2007* 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)

| 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 |

- Named in 2005 Detroit Free Press *Top 10 Public Courses*



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

MARCH 2, 2010

**THE DETROIT RIVER INTERNATIONAL CROSSING: A PRECEDENT-
SETTING GEOTECHNICAL AND GEOPHYSICAL INVESTIGATION TO
EVALUATE SUBSURFACE GEOLOGICAL STABILITY IN AN AREA OF
HISTORICAL SOLUTION MINING**

Featured Speaker:

Mr. Craig R. Johnson

NTH Consultants, Ltd., Lansing, MI

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

Cost: Students \$10.00, Members \$35.00, Non-members \$40.00 **Registration is payable 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 24 hours of the meeting and/or "No Shows" will be charged and expected to pay the registration fee.**

Dinner: *Home-style Buffet* – includes Chicken Supreme, Beef Stir-Fry, Cheese Ravioli, Garden Salad, Au Gratin Potatoes, Fresh Green Beans, Apple Pie.

Time: Cash Bar 5:30-6:30 PM, Dinner 6:30 PM, and Speaker 7:30-8:30 PM

RSVP: John Barkach, at jbarkach@glec.com no later than February 26, 2010. Please include AIPG in the subject line. Checks may be mailed to John at this address: c/o GLEC, 33045 Hamilton Ct., Suite W106, Farmington Hills, MI 48334. Payment may also be made at the door.

Meeting is being hosted by the Central Michigan University Student Section of AIPG. They will be selling rocks and minerals as a fundraiser for their section.

Volunteers needed to participate in a Student Q&A panel discussion hosted by the Student Section at 4:00 in Brooks Hall. Please contact Eric Wallis (ewallis@wm.com) if interested.

Mr. Johnson received his B.S. in Geological Engineering from Michigan Technological University with an emphasis in petroleum engineering and geophysics. He is currently an Associate at NTH Consultants, Ltd. in Lansing, Michigan and holds the position of Geophysics and SUE Lead. He is currently involved in enhanced oil recovery and carbon sequestration characterization/studies within the MI Basin. He has designed or implemented hundreds of geophysical investigations including multi-channel analysis of surface waves (MASW), seismic, cross-well seismic, GPR, electromagnetic, and gravity techniques. He has authored numerous professional papers and recently completed ASFE – The Best People on Earth, Fundamentals of Professional Practice (FOPP). Mr. Johnson is a member of AIPG, SPE, and is the current president of the Michigan Basin Geological Society (MBGS). In his spare time, he enjoys spending time with his family, the great outdoors, wood turning, and home-brewing.

The Detroit River International Crossing: The Implementation of a Precedent Setting Geotechnical and Geophysical Investigation to Evaluate Subsurface Geological Stability in an Area of Historical Solution Mining

By Mr. Craig R. Johnson of NTH Consultants, Ltd.

The development of any large scale infrastructure can present many geological and geotechnical challenges. During the development of the Detroit River International Crossing (DRIC) project, unique geological conditions were encountered and addressed through the implementation of a precedent setting multi-phase geophysical and rock mechanics based investigation.

The Detroit, Michigan area is underlain by numerous evaporate geological sequences (halite concentrated), which have been historically mined over the last 100+ years by room and pillar and solution mining methods. Historically, the majority of the salt was removed by solution mining, often with little to no documentation. Early solution mining was typically conducted through uncontrolled means with increased removal of salt from adjacent wells often creating large spans of unsupported rock. The individual cavities often coalesced with adjacent cavities to form large galleries. Eventually, as observed in 1954 and the early 1970s, in Windsor, Canada and Grosse Ile, MI, respectively, the massive unsupported spans collapsed to the surface to form large sinkholes. Another prominent location on the US side had also reported settlements of nearly 7 feet near the center of the field.

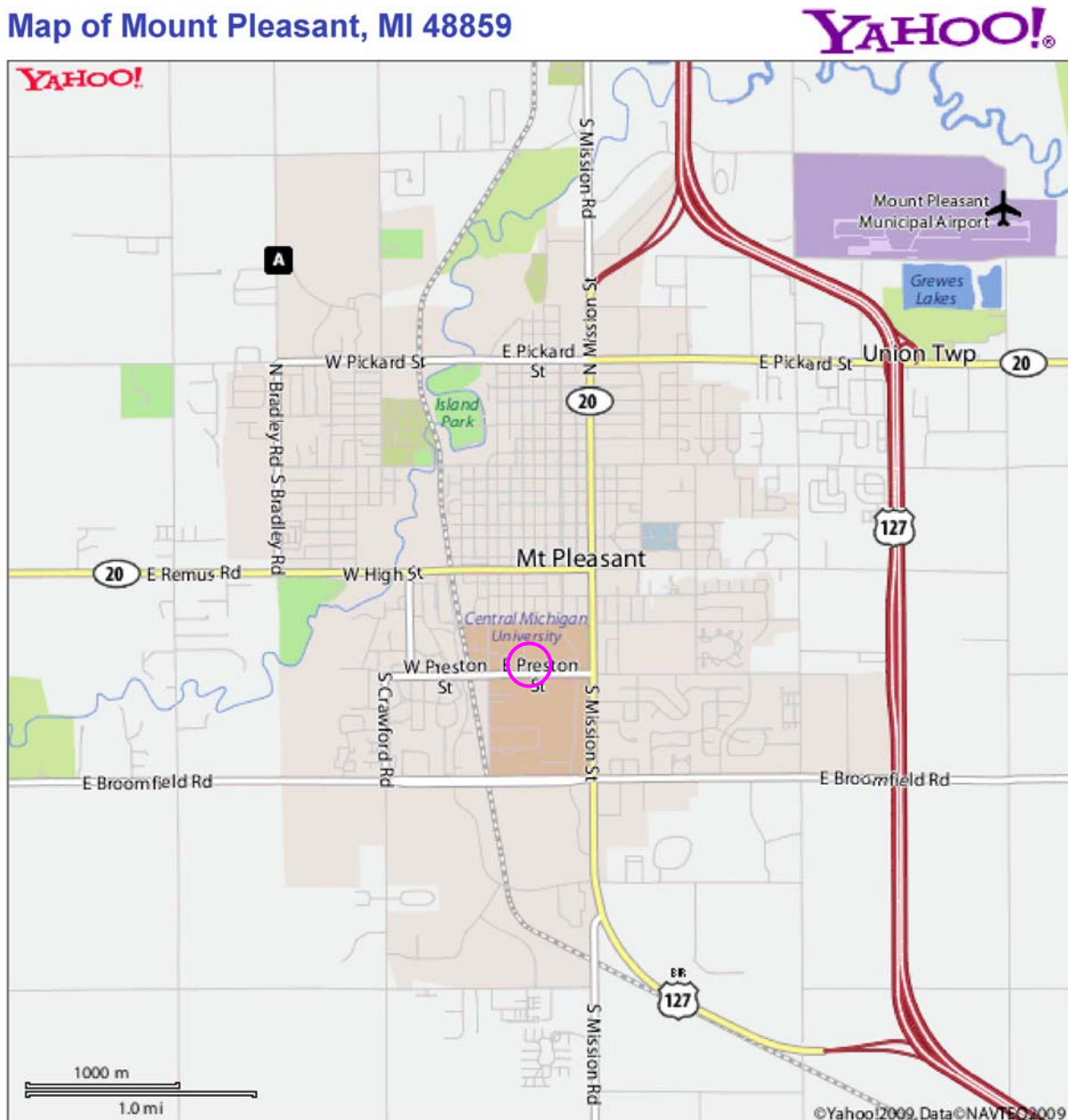
The presentation illustrates the challenges and steps taken to develop a program to investigate and clear an area to found the new DRIC crossing (suspension bridge) in an area known to have been historically solution mined. Challenges to implement this program include extensive rock drilling and a large scale geophysical investigation in a heavily urbanized area, adjacent to a major international shipping channel. The completed program included the drilling of 13 deep wells (in excess of 1,500 feet) to facilitate the use and development of cross-well seismic imaging to determine brine cavity presence, size, and pertinent engineering characteristics. The cross-well also provided rock structure and geological conditions between boreholes for use in extensive rock mechanics modeling. This is one of the first implementations of cross-well seismic imaging outside of the oilfield environment, with spacing between boreholes often greater than 1,500 linear feet and source frequencies to 2,000 Hz. The project also incorporated the use of borehole gravity techniques, vertical seismic profiling, and extensive wireline logging in an attempt to locate undocumented cavities. The presentation will also discuss some of the factors involved with successful imaging of solution mining features, as observed during the program's successful implementation.

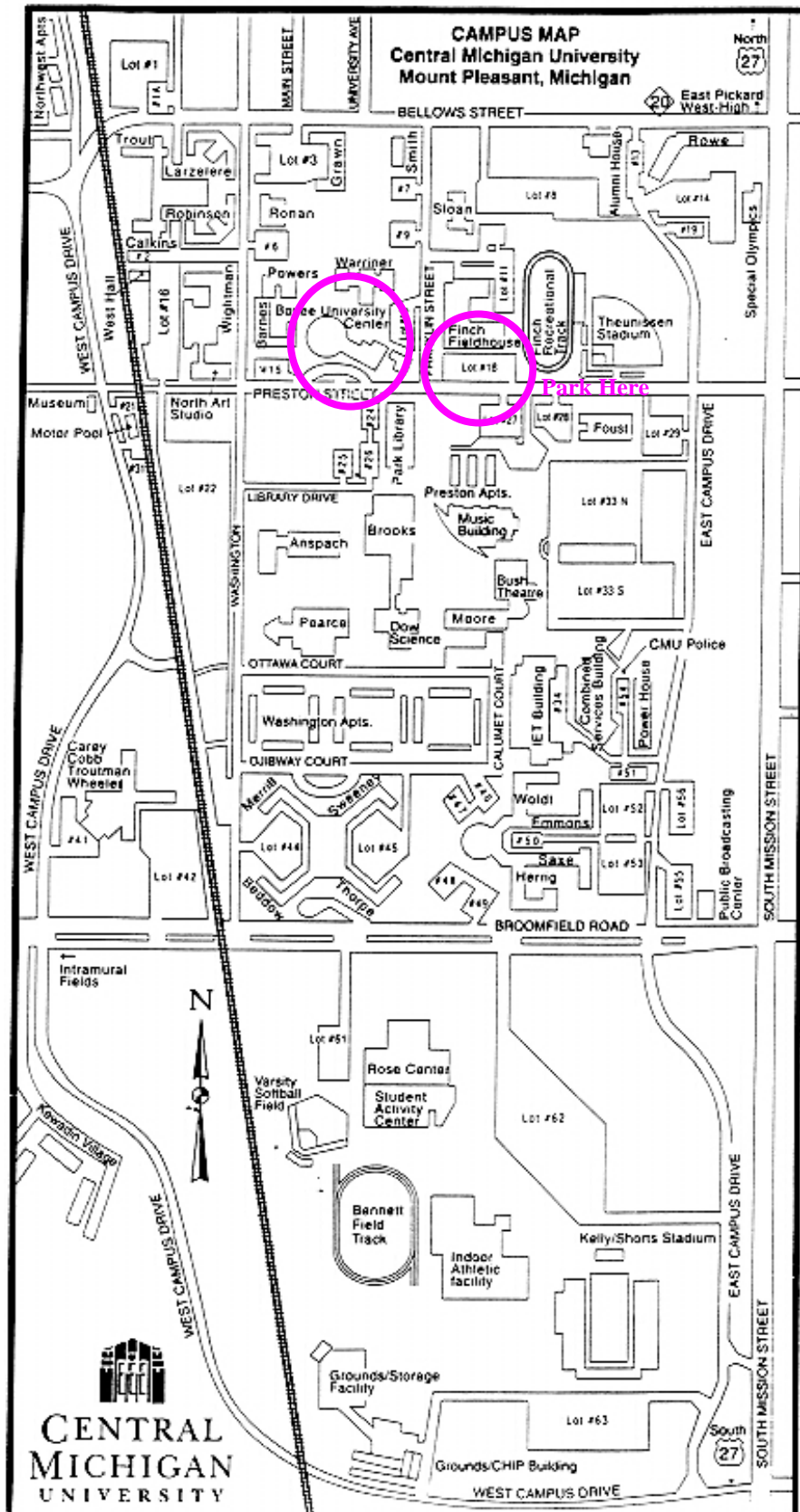
The DRIC investigation won both Michigan and National American Council of Engineering Companies (ACEC) Engineering Excellence Awards.

AIPG Section Meeting March 2, 2010

University Center, Central Michigan University, Mt. Pleasant

Map of Mount Pleasant, MI 48859





Park in Lot #18 on the north side of Preston Street, east of the University Center.