



American Institute of Professional Geologists Michigan Section

July, 2009

From the President's Desk

Hello Everyone. I hope everyone is enjoying our beautiful Michigan summer and gets an opportunity to enjoy all of the things that make Michigan a great state to be in courtesy, in part, to our rich geologic history.

We are sending out this mid-summer edition of the section newsletter just to keep everyone updated on what has recently been going on and let you know what we have planned for the rest of the year.

Since the last newsletter, we held our first ever Vendor and Student Night in April. We had turnout from some great vendors and some students. This was an attempt to foster business relationships between our members and vendors who offer services that we use everyday particularly now with the uncertainties of the current economy. We were also hopeful to provide an opportunity to students who would be seeking employment to network with our membership. I would like to thank those who turned out and the vendors who sponsored the evening.

Following the vendor and student night, we held the 4th annual AIPG Golf Outing in May. The weather was perfect for enjoying great company and a round of golf. Congratulations to Craig Marlow and his foursome finishing the day with the best score, and congratulations to Jason Lagowski, winner of the big screen television! Thanks to everyone for your support in making the day a fun and successful event.

In June, Bill Siok, National Executive Director of AIPG, joined several of our members for a lunch meeting to discuss the status of the geology profession and inform us of some of the services and support that National can provide, including sponsorship of technical seminars and online courses. Bill also invited questions from our members and let us know that he and the staff at National are always available to support us here in the section and answer questions that we may have. Bill also encouraged participation at the Annual

Meeting to be held this year in Grand Junction, Colorado in October. If you have the opportunity to go, don't miss out! Jason Lagowski will be our official delegate this year. Adam Heft is an Advisory Board representative, and is running for National Secretary, will also be there, as will Larry Austin. (By the way, be sure to vote!) We were pleased to have Bill visit for an enjoyable lunch and discussion.

Another topic that we have been working on is drafting a letter that will be sent to the Michigan legislators regarding House Bill No. 4908 and Senate Bill No. 436. The bill proposes amendments to Public Act 451, 1994, as amended, that would require the certification and signature of professional engineers for remedial action plans (RAPs) prepared under the requirements of Part 201 of P.A. 451. Our letter requests that the legislators consider the fact that skilled geologists are just as necessary to RAP process as engineers, and in many cases, more so and require that geologists also provide the professional certification for these documents. We will be posting a copy of the letter on the website.

Speaking of the website, I am pleased to announce that we have been working on developing a new website for the Michigan Section. Our new website is intended to be more interactive, maintain current information, and be more visually interesting than the previous website. The website has been launched; please feel free to check it out. Additional details regarding the new website are included in a separate article in this newsletter. If you have any suggestions for additional information, links, or you would like to submit geology related photographs, we will be happy to post them. Please contact Adam Heft regarding any suggestions or submittals. Wendy Davidson from National has been very busy making our vision a reality. Thanks to both Wendy and Adam!!

We have just a few upcoming items to discuss at this point. Our September meeting will include a discussion on C_{sat} and mixing zones presented by the MDEQ RRD. There have been many questions regarding the effects of multiple contaminants on C_{sat}

at sites across the state, and this presentation will answer many of those questions. Several mixing zone questions have also been raised, including storm sewer receptors and the applicability of closure to sites with mixing zones. Ms. Patty Brandt, Part 201 Specialist, and I will give the presentation on these topics at Tony Ms in Lansing, Michigan on September 17, 2009.

Our final meeting of the year will be on December 3, 2009 at Western Michigan University in Kalamazoo, Michigan. I am very excited about this meeting. The meeting will kickoff with a tour of the Core Lab followed by dinner at the Fetzer Center with a presentation entitled "A Geological Perspective on Global Climate Change." More details will follow in the next newsletter. Make sure you save the dates!

We are also looking forward to the upcoming AIPG national election and fully support Adam Heft in his bid for National Secretary. Adam currently serves on the National Advisory Board, and it would be great for him to serve our Section as National Secretary!

I also regret to say that we have attempted to line up a summer field trip looking at several different options that have not panned out for one reason or another. However, we are beginning the planning process for a summer field trip that will be family friendly, affordable, and fun for next summer. The targeted location is Pictured Rocks and the Upper Peninsula. If you have any ideas, contacts, or would like to help in the planning, please feel free to contact me.

With all that said, I would like to wish everyone a great summer!

Sara Pearson, CPG – 2009 Michigan Section President

Section Officers Reports

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

Vice President: As the current Vice President, former Treasurer, and Chairman of the Awards Committee it is my pleasure to provide the following update to Section members. As discussed at the 2008 annual meeting, the Executive Committee voted to place \$30,000 of Section resources into five (5) Certificates of Deposits (CD's) that mature on 12-month intervals (i.e. 12-month, 24-month, 36-month, 48-month and 60-month). The CD's are in \$6,000 increments and have a variable yield between 4% and 5% annually. Interest on the CD's will generate approximate \$1,500 per year, which will be re-invested and/or utilized to fund educational grants or scholarships. The Section also has approximately \$10,000 in other cash reserves that are utilized for normal operations (i.e. meeting costs, etc...). Given that as a Section we are committed to fostering the growth of geosciences with the younger generation, I strongly encourage every member to highlight the availability of the educational grants to their local schools, as we have traditionally struggled to award these grants which have historically been as high as \$1,000. Details of the grant application process are available on the updated website.

Treasurer: No report.

Secretary: No report. I can say the economy is in uncharted waters (at least for my generation), and we all play a key role in collectively and aggressively strengthening the organizations muscle, whether it be in AIPG or with our current employer. We must remain true to our core values and competencies so that we can successfully overcome the uncertainties and move to a brighter future.

AIPG Michigan Section Officers Tim Woodburne, Past-President, 616-364-8491 (twoodburne@preinnewhof.com); Sara Pearson, President, 616-356-0253, (pearsons@michigan.gov); Jason Lagowski, Vice President, 248-994-2243 (jason.lagowski@arcadis-us.com); Don Conway, Treasurer, 231-933-5132, (dgonway@goslingczubak.com); Dawn Prell, Secretary, 248-324-5288, (dprell@nthconsultants.com).

Newsletter Editors Adam W. Heft, 517-886-7400 (heft@pbworld.com) and Tyrone J. Black, 989-705-3402 (blackt@Michigan.gov).

Committees Awards, Jason Lagowski (jason.lagowski@arcadis-us.com); Educational Outreach, Jason Lagowski (jason.lagowski@arcadis-us.com); Membership and Student Chapters, Walter J. Bolt (wbolt@manniksmithgroup.com); Nominating, Mark Sweatman (msweatman@bcienq.com); Screening, David Regalbuto (dregalbuto@golder.com); Section Regulations & Legislation, Walter J. Bolt (wbolt@manniksmithgroup.com).

Circulation of the Michigan Section Newsletter is to over 300 members, a number of prospective members, several geology departments, and companies for a total over 500. Distribution is by USPS and e-mail notice of web posting. Copy in PDF format is posted at <http://www.mi.aipg.org>.

Newsletter Sponsors and Advertisements: The Sponsor section is \$15 per name or column inch for copy ready art. Copy preparation at an additional charge is available.

Professional Postings: The Professional Posting section, where you may advertise positions, is \$10 per column inch.

Seeking Employment: Members seeking employment may submit a 50-word listing at no charge.

Articles: The newsletter will feature topics on a quarterly basis, and will have a quarterly deadline for submissions. If you have ideas for topics or articles, query us or submit it!

Authors' opinions in articles are not necessarily the opinions of the Michigan Section or National Headquarters of the AIPG.

Michigan Section Launches New Website!

For the past few months, members of the Michigan Section Executive Committee have been working with Wendy Davidson of National Headquarters to design and build a new website for the Section. As many of you know, the old website was tired looking, drab, and outdated, with a lot of information that was up to two years old and many broken links. The new Site has what is hoped to be a better design, more interesting features, and is easier to navigate. The Section also acknowledges that its activities need and have been improved by the support of numerous companies. We have the logos of each of the companies that have supported the Michigan Section on our website. Clicking on the logos will take you to that company's home website. Please consider supporting those companies that support the Michigan Section by using them to help you conduct your business.

With all of that said, the website is still based on the Section members' input. Please take time to explore the website and see what it has to offer. There are links to numerous pieces of information; if you can provide links or suggestions for additional content, please feel free to submit it.

The Michigan Section is working to build a collection of geologic photographs that can be used by anyone visiting the Site. If you have any photographs of geologic features that you would be willing to share with other professionals or even students looking for information to put in reports, please forward them to the Section Newsletter Editor, who will see that they are placed on the website. The use of the photographs will be unlimited, so long as the user cites the source and name of the person who took the photograph.

Adam Heft, CPG –Michigan Section Newsletter Editor

Annual Golf Outing

Even though the sponsorship was off a little from last year, it seems that the Annual AIPG Golf Outing just keeps getting better. Despite rough economic conditions, the May 12, 2009 event came off beautifully for the fifth consecutive year. We had as many golfers (68) as the 2008 event. Everyone enjoyed the day at Lyon Oaks, the weather was perfect, and lots of great prizes were distributed.

The weather was perfect. It started out cool, but warmed nicely to around 75 degrees with mostly clear skies. We take our chances with weather in May, but it couldn't have been better. Lots of great and not so great golf was played.



Section Member Tom Cok

We had Fibertec Environmental Services, an enthusiastic sponsor at locations around the course and assisting with registration of the golfers. Thanks also to Orin Remedial Technologies. The raffles were very successful. Winners included Bob Reichenbach (50/50 raffle) and Jason Lagowski (flat screen HD television). The winning foursome included David Paholak, Craig Marlow, Kirk Pompilius and Jim Kirsch; nice going! Based on the proceeds we will have money available to support our K-12 educational grants.



Section Member Jason Lagowski, winner of the drawing for the big screen TV.

The success of the outing is due in large part to the generosity of our valued members, guests and

sponsors. Thank you for helping make the 2009 outing a terrific success.

For committing a great deal of personal time to make this event such a success, we would like to express special thanks to Kevin Lund for his efforts, which included coordinating the outing, registering participants, soliciting sponsors, and obtaining the prizes. Call Kevin at 517-780-7846 if you can offer your time to assist with planning next year's event.



Members enjoying dinner and comparing scores following a day of golf.

We can all look forward to next year's Sixth Annual AIPG Golf Outing at the same course. We expect sponsorship growth and increased member participation, so please make a note now to watch for the registration and sponsorship announcements (email, AIPG website) early next year. See you again May 11, 2010! SAVE THE DATE.

Bob Reichenbach, CPG – Michigan Section Golf Outing Organization Committee

Coming Events

August 7-9, 2009: Houghton, MI. Copper Country Rock & Mineral Club's Show; Portage Township Elementary School, 203 Jacker Ave.; Fri. 1-8, Sat. 10-6, Sun. 11-5; Contact Steve Whelan, 59880 Dekstrom Rd., Calumet, MI 49913, (906) 337-2599, swhelan@up.net.

August 22, 2009: Clio, MI. Flint Rock & Gem Club's 7th Annual Swap Meet; Clio Senior Center, 2136 W. Vienna Rd.; Sat. 9-5; Contact Dan Goodwin, 6325 E. Hill Rd., Grand Blanc, MI, (810) 695-2768 or Ed Oller, (810) 241-8801.

September 5 & 7, 2009: The Geology Department at Wheaton College in Wheaton, Illinois is hosting a two-day sale of rocks, minerals, and equipment from 9:30am-4:30pm each day. Details are available by contacting Jeff Greenberg at Jeffrey.K.Greenberg@wheaton.edu.

September 12-14, 2009: Holland, MI. Tulip City Gem & Mineral Club's 40th Annual Show; Holland Civic Center, 150 W. 8th St.; Fri. 9-7, Sat. 9-7, Sun. 12-5; Contact

C.H. Falstad, 152 Birchwood, (616) 396-1149, cfalstad@ameritech.net.

September 17, 2009: "Clearing Up C_{sat} Criteria, Multiple Contaminants, and Mixing Zones" by Ms. Ms. Patty Brandt and Sara Pearson with the MDEQ Remediation and Redevelopment Division.

Location: Tony M's, Lansing, Michigan.

Dinner: Choices: Prime Rib, Baked Chicken, or Pasta Primavera. All entrees served with salad, rolls, redskin potatoes, California vegetables, and Cheesecake.

Schedule: Cash Bar/Check-in 5:30 to 6:30 PM, Dinner: 6:30, Speaker: 7:30 to 9:00. Prize Raffle.

Cost: Students \$10.00 (waived if exhibiting a poster), Members \$35.00, Non-members \$40.00.

RSVP by April 10, 2009: RSVP to Dawn Prell at dprell@nthconsultants.com. Notice by e-mail is preferred, and please include AIPG in the subject line. Dawn can also be reached at (248) 324-5288.

September 19-20, 2009: Howell, MI. Livingston Gem & Mineral Society's Annual Show; Hartland Consolidated Schools, 9525 E. Highland Rd.; Contact Chuck Amberger, 9525 E. Highland Rd., Howell, MI 48843.

September 26-27, 2009: Traverse City, MI. Grand Traverse Area Rock & Mineral Club's Annual Show; Grand Traverse Heritage Center, 322 6th St.; Contact Karen Thomas, 2287 Ingersoll Rd. SW, Fife Lake, MI 49633, darcyinc@hughes.net.

October 3-7, 2009: 46th Annual AIPG National Meeting, to be held in Grand Junction, Colorado. Full details will be available on the AIPG website at: www.aipg.org, and in upcoming issues of TPG.

October 24 & 25: Michigan Basin "Caves and Karst of the Mitchell Plateau, South Central Indiana" Field Trip. Details of the field trip are in the flyer attached to this newsletter, and may also be obtained by contacting Mark Wollensak at (517) 719-8321 or by email at wollensak@voyager.net.

November 5, 2009: The Annual Fall Environmental Conference: To be held on the campus of Lansing Community College West Campus. The conference is co-sponsored by the Environmental Law Section of the State Bar of Michigan, the West Michigan Chapter of the Air & Waste Management Association, and the East Michigan Chapter of the Air & Waste Management Association. The fall program will feature discussions of timely environmental issues.

December 3, 2009: AIPG Annual Section Meeting: To be held at Western Michigan University. The meeting will include a tour of the Michigan Core Laboratory before dinner. The speakers will present a talk about "A Geological Perspective on Global Climate Change."

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 Advisory Board Representative Executive Committee Meeting Summary

I am a 2009 National Advisory Board representative, and feel that I should share with the Michigan Section information from the Executive Committee meetings. There have been two of the three meetings held so far this year.

The first meeting was held in Tucson, Arizona on February 13th. As part of this meeting I was part of a committee charged with reviewing and revising the AIPG strategic plan. Significant progress was made in this regard in a pre-meeting meeting the day before the regular meeting. The plan was subsequently reviewed by all members of the executive committee and is planned to be approved at the annual meeting in October. It will thereafter be available to members once it is posted on the AIPG national website.

One of the main points of the strategic plan is to find a way to offer additional value to AIPG members. If this can be accomplished, then the other goals (increasing membership, diversifying sources of revenue, strengthening the sections, etc.) will fall into place. With that said, I am asking that each of our members take a few minutes and decide what AIPG means to you, what you like, and what could be done to improve the organization. For those members that have a problem with the way things are done, speak up; this is your chance to provide input directly to the national executive committee. Both compliments and criticisms are welcome.

Other business discussed during the February meeting included a summary of institute finances and the impact of the economy on AIPG investments, a summary of the 2008 annual meeting and a discussion of meeting locations for the next several annual meetings, information on the 2009 scholarships and awards, a summary of nominations of officers for 2010 and information on the CPD program implementation and lack of participation. The final item discussed was a \$5 membership dues increase, which was deemed necessary because of the increased costs associated with payment of dues via credit cards and the fees charged to AIPG for this service.

The second meeting was held on June 6th in Westminster, Colorado. This meeting continued discussions on the topics covered during the February meeting, and also included discussions about the relationship between AIPG and the AIPG Foundation. The Executive Committee also heard from a representative of the Geological Society of London, and a representative of AGI.



National Executive Committee members discussing agenda items at the June meeting in Denver

The discussion on participation in CPD was continued from the February meeting. One of the main concerns is the apparent lack of participation among members; anyone that became a CPG after July 1, 2006 is required to provide documentation on continuing education efforts. What was not made clear is that members should use the AIPG on-line system for this purpose. The on-line system is very easy to use, and is visible to the CPD review committee that ensures members are complying with this requirement. Please take a few minutes to upload your information into the system. It may take a few minutes the first time, but once you have set up your basic information, entry of specific items goes quickly.

Adam Heft, CPG –Michigan Section Newsletter Editor

MDEQ-RRD Updates

Program Redesign

Additional stakeholder meetings dates have been scheduled for July 14th (liable party obligations), August 6th (liability and enforcement provisions), August 26th (conceptual presentation for criteria revisions-likely webcast), and September 10th (criteria). Details on meeting times and materials for discussion will be available closer to the scheduled dates.

Portions of the proposed statutory language (e.g., inquiry, due care, release reporting, etc.) are being prepared and will be provided for comments concurrent with the upcoming meetings.

If anyone is interested in attending the discussions, or wants to stay informed of what is being proposed by receiving copies of the documents as the proposal moves forward, please contact Patty Brandt, Part 201 Specialist, brandtp@michigan.gov to be placed on the stakeholders distribution list.

American Recovery and Reinvestment Act

EPA and the Office of Management and Budget have finally completed their guidance, and Michigan is in the process of redrafting the grant application for submittal this week. The grant amount allocated to Michigan is slightly less than \$7.2 million from the American Recovery and Reinvestment Act, and a number of projects have been identified to begin to work on this year.

MDEQ is utilizing the current contracting infrastructure and plan to maximize the flow thru to consultants by not using any grant monies to pay for staff. Reporting templates to address the grant requirements for quarterly reporting are under development, since it will be important to carefully track the grant expenditures due to the high profile of the American Recovery and Reinvestment grant effort. The sites will be listed as they are identified on the interactive map on Michigan Recovery and Reinvestment's website located at: <http://www.michigan.gov/recovery/0,1607,7-172--214613--,00.html>.

Furlough Days

Two of the six scheduled furlough days have passed in which the MDEQ offices were closed for business. The remaining four furlough days are scheduled for July 24, August 7, 21, and September 4, 2009. All MDEQ employees are on temporary layoff on these days as a cost saving effort by the state and will not be able to respond to calls or emails. If there are any environmental emergencies, please call 1-800-292-4706. This telephone number is for environmental emergencies only.

Sara Pearson, CPG – 2009 Michigan Section President

March and June Section Meetings Summary

The March meeting of the Michigan Section AIPG was the planned "Student and Vendor Night," held at Weber's Inn in Ann Arbor on April 14th. We had 10 vendors who presented information about their company's and about six students at the meeting. Unfortunately, the member turnout was quite low, with only about 20 members present.

The June Section meeting was a lunch meeting held at the Stillwater Grill in Brighton. Bill Siok, AIPG National Executive Director, joined about 20 members at the meeting. The discussions included the state of the profession and information about what support National can provide to the Section and to members. Bill extended an invitation to members to attend the annual meeting that will be held this October in Grand Junction, Colorado.



Section members enjoying lunch with Bill Siok at the Section meeting June 17 at the Stillwater Grill in Brighton

Adam Heft, CPG - Michigan Section AIPG
Newsletter Editor

Welcome New Members

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

Robert Sadowski, Nicholas Swiger, Lisa Noblet, Peter Lepczyk, Benjamin Fruchey, Andrew Graham, Justin Johnson, Jon Hermann, Lee Copp, Katie Schon, Matt Beyer.

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.

Member's Corner

As was indicated in the October 2008 newsletter, the Member's Corner will include 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.

Lawrence M. (Larry) Austin, CPG... BS., Geology, 1974, Grand Valley State College (now University), Certified in 1982 (and likely still certifiable but that's another matter), Chairman, AIPG National Screening Committee (NSC), President, Aqua-Tech Consultants, Inc.

Like Bill Cosby, I started out as a child. Mostly skipping stones on the lake but every once in a while I'd stop to look at the rock in my hand. I got into fishing and hunting and began a love affair with the environment that's lasted a lifetime. About the time I graduated from high school (1968) I fell in with evil companions and ended up at Grand Valley in geology. Haven't regretted a minute of it although I'm sure the eventual penance for my sins will be severe.

A few years after being certified by AIPG, I began to get more involved, first with the Michigan Section and then National AIPG. That was about 1988 and since then I've participated with the National Screening Committee. At present I serve as the chairperson of the NSC with a group of dedicated members that reviews all CPG applications. In doing so, we mitigate the former hours and days spent each quarter by members of the Executive Committee on the difficult applications. A workload that once consumed much of every two day quarterly meeting has been reduced to a couple of cases each year, typically an hour or two at most. Many hands make for light work and this is a prime example. My sincere thanks to all who serve on both the Section level and National level screening committees.

I'm also President of Aqua-Tech Consultants, Inc. Aqua-Tech is a small consulting firm that Herm DeLano and I founded in 1982. Our services include environmental response/investigation and remediation, hydrogeological investigations, environmental assessments, geotechnical drilling and limited construction inspection services. We leave the engineering, architecture and landscaping to the myriad of other competent firms, many of whom are also clients.

Some people know me as a tough nut to crack. Likely the nut part applies. Opinionated, stubborn as an old mule and likely unconventional in approach, I'd rather see resources spent on actions than documentation. My pet peeves are legal and political fabrications that serve to block actions, draining resources until the responsible party no longer has the ability to respond. My view is that many of these manufactured obstructions needlessly create pseudo job security at the expense of environmental protection. And that's a crime I cannot brook.

Many of you also know that I'll do anything to get students and kids into experiences related to both AIPG and the outdoors/environment. Each Section meeting I offer to buy one student's entrance. And if you've been along on field trips with me, you've likely met my daughter, Stephanie and, more recently, my son, Robby. Properly coached in the appropriate etiquette before the trip, both Steph and Robby have gained an appreciation for not only the geologic environment but also the people and institutions

associated with AIPG. My wife, Mary, and I also serve as foster parents for children in the court system in Michigan and do our best to get them outdoors as well, dragging them off to the beach, fishing, hikes and short trips. These young people, yours, mine and ours, are our future and we need to give them every advantage we can if they are to carry on from us.

And yes, I still count many of those evil companions as good friends - plus a whole lot more thanks to AIPG!

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.

Remember to Vote!

As all of you should be aware, the May/June issue of TPG included a ballot for the National Executive Committee positions. Michigan Section's own Adam Heft is one of the candidates for National Secretary for the 2010-2011 term. Help the Michigan Section have a voice in the National Executive Committee. Please cast your vote for your choice of candidates for each of the positions; voting ends by August 15. Traditionally, only about 20 percent of members bother to vote. Let's work to try to change that for the better. With your choice of either a paper or electronic ballot, voting is easier than ever, and takes only a few minutes. Make sure your voice is heard in the selection process of the candidates.

Recent College Graduate Seeking Entry Level Geology Position

Recent Central Michigan University graduate, seeking employment as a Geology/Earth science professional. Have major in Geology and minor in Biology. Hard working, willing to learn, travel, and relocate. For more information please contact Nathaniel Bartlett. Cell # (989) 387-1688, E-mail: bart1nr@cmich.edu.

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SATURDAY OCTOBER 24th and SUNDAY OCTOBER 25th

This field excursion will allow participants the opportunity to experience spelunking first hand with the guidance of several experienced members of the Eastern Indiana Grotto. The cave(s) we will visit will be easy, mostly walking, which have been relatively left unplundered of the karst formations. One suggested cave, Donohue Cave, is walking distance from the suggested hotel and may be the first cave we will enter on Saturday. In the evening we will visit an additional cave for those interested. The Wesley Chapel Gulf may also be visited which is a series of karst sinkholes adjoined into one large depression of over 1,000 feet in length. On the return trip Sunday, Todd Thompson and Brian Keith of the Indiana Geological Survey will guide the group to a number of karst and geologic features of the Salem and St. Louis Limestones between Bedford and Bloomington. We will also view a Salem Limestone quarry where the famous "Indiana Limestone" is quarried.

Recommended Lodging: Holiday Inn Express Hotel & Suites Bedford, 2800 Express Lane, Bedford, Indiana 47421, (812) 279-1206. Please make your own reservations for lodging *before October 1st*. A block of rooms has been assigned to the "MBGS" group. *The hotel is booked for this weekend and the block will be dropped if not reserved.*

Who can participate: Open to MBGS members only. Become a member and join in on the field trip if you are not a member! An application is attached.

Cost: \$10 per person to cover printed materials and rental equipment.

Clothing and Equipment Recommendations: Caving is wet and dirty. Cave temperatures average approximately 55 degrees. Old clothing which can get muddy, preferably of synthetic blends or light wool, such as long pants and a long sleeved shirt are suggested. An old light jacket and wool socks are recommended due to the cave temperatures. Coveralls are also recommended. Wear old tennis shoes or light boots which can get soaked and muddy. Knee pads are also highly recommended. Although the caves are primarily walking caves, knee pads will make the occasional crawls at entrances and exits much more comfortable. Bring leather gloves and a small knapsack/fanny pack to carry your small spare flashlight, extra batteries and water bottle. We will provide hard hats and electric lamps. Everyone is required to provide their own AA batteries. Bring 12 AA alkaline batteries at a minimum per person (for use and backup).

Restrictions: If you are highly claustrophobic, this may not be a trip for you. If you get claustrophobic during the trip, enough Eastern Indiana Grotto guides will be available to assist with your return exit from the cave. Much of the cave travel is like walking in an irregular shaped corridor or hallway.

Participation Limit: 20 Participants total.

Registration Deadline: Friday, October 16th.

What is Provided: Instruction and guidance for entering into and through the caves, hard hats and electric lamps, printed materials. All travel, lodging and meals are the responsibility of the participants.

Make your reservations by calling Mark Wollensak, at (517) 719-8321 or write to wollensak@voyager.net

Michigan Chapter
American Institute of Professional Geologists
MEETING ANNOUNCEMENT

September 17, 2009

CLEARING UP C_{SAT} CRITERIA, MULTIPLE CONTAMINANTS, AND MIXING ZONES

Featured Speakers: **Patty Brandt, MDEQ RRD Part 201 Specialist**
Sara Pearson, MDEQ RRD Senior Geologist

Location: Tony M's Banquet, 3420 S. Creyts Road, Lansing, MI (Map attached)

Cost: Students \$10.00 (or Free*), 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: **Buffet Style: Prime Rib, Baked Chicken, and Pasta Primavera** – with salad, rolls, redskin potatoes, California vegetables, and cheesecake.

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

RSVP: Dawn Prell, at dprell@nthconsultants.com (email RSVP's preferred and please put **AIPG** in the subject line) or (248) 324-5288 no later than September 14, 2009.

Guest Speakers: **Patty Brandt**, Part 201 Specialist, and **Sara Pearson**, Senior Geologist, for the Remediation and Redevelopment Division, will present information on the MDEQ's C_{sat} criteria regarding multiple contaminants. This discussion is relevant for Part 201 and 213 sites where contaminant concentrations do not exceed the C_{sat} criteria for individual compounds; yet, free phase contaminants are present at the site due to high concentrations of many compounds. In addition to the C_{sat} topic, Ms. Brandt and Ms. Pearson will present discussion relating to the applicability of mixing zones, requirements, and the processes involved in applying for a site-specific mixing zone.

Both C_{sat} criteria and mixing zones have been the subject of many questions directed to the MDEQ, and this discussion is aimed at presenting answers to many of the questions posed.

AIPG Section Meeting September 17, 2009

Tony M's Banquet, 3420 South Creyts Rd, Lansing

