



# American Institute of Professional Geologists Michigan Section

October, 2008

## From the President's Desk

Michigan Section has had a busy year of exceptional meetings and activities. The goal for the past year was to highlight Michigan's geology as divided into the three major geologic packages of glacial drift, Michigan Basin rocks, and Precambrian rocks. This was done by providing Chapter meetings and other activities for us to socialize and meet new geologists. Additionally, this year we hosted meetings from west to east across the State starting in Kalamazoo, then Grand Rapids, Lansing, and we will end in Ann Arbor. Let's review Michigan Section's activities for 2008:

1. March 13, 2008 – Chapter meeting at Western Michigan University's Fetzer Center, Kalamazoo, MI: The featured speaker was Alan Kehew, Ph. D. on "Natural Attenuation at UST sites: Processes, Problems, and Predictions."

72 people attended the meeting.

2. May 15, 2008 – Chapter meeting at Radisson Hotel Riverfront, Grand Rapids, MI: The featured speaker was David Barnes, Ph. D. on "Addressing Climate Change through Carbon Capture and Geologic Storage in Michigan."

About 45 people attended the meeting.

3. May 20, 2008 – 4th Annual Michigan Section Golf Outing, Lyon Oaks Golf Course, Wixom, MI.

65 people attended, a record number for Michigan Section golf outings.

4. August 8-9, 2008 – 1st Annual Michigan Section Field Trip. The trip was to the LaFarge Quarry and Rockport Quarry near Alpena, MI.

51 people attended the field trip

5. October 16, 2008 – Chapter meeting at Holiday Inn South, Lansing, MI: The featured speaker was Theodore J. Bornhorst, Ph.D. on "Nonferrous Metallic Mineral Potential of Michigan's Western Upper Peninsula in context of Government Regulations".

38 people attended the meeting.

6. Our final Chapter meeting for 2008 will be December 2 at Webber's Inn in Ann Arbor, MI. The featured speakers will be Fred C. Payne, Ph.D and Joseph A Quinnan on "Restoration Hydrogeology – An Emerging Science". All are welcome to attend.

At our last meeting on October 16, 2008, the Executive Committee decided to invest \$30,000 into Certificates of Deposit (CD's) to fund future educational awards. The first CD to mature will be available in 2010 so we anticipate that educational awards will be funded with interest from the investment after that time. We believe that other events, including proceeds from the annual golf outings and some Section money will contribute to the fund's principal and help it grow. Jason Lagowski, C.P.G. was chosen to be Administrator of the AIPG investment, as he is Chairman of the Educational Awards Committee. The Administrator and the Section Treasurer will receive fund statements and apprise the Executive Committee of the funds' balance.

Our most difficult goal, which unfortunately did not occur, was to pass the PG Bill. This has been an extremely difficult endeavor because it requires the State legislature to pass the PG Bill and the Governor to sign it into law. We attempted this year to further this effort by creating a White Paper, which explains our position, which has been provided in draft form to the Section's Regulations & Legislation Committee.

Each of the events listed above required volunteer time by several people including the featured speakers, and each provided high quality, well prepared talks on their topics. Thanks to Executive Committee members Sara Pearson, Jason Lagowski, Don Conway, Adam Heft, and Scott Cesarz, who set up meetings and provided helpful insight into handling the AIPG investment. Special thanks to Kevin Lund, who again planned the Annual Golf Outing; Sara Pearson, who planned the Summer Field Trip; Adam Heft, for his efforts to

continuously improve the Newsletter and the Section, and his future work on the National Advisory Board; Walter Bolt, for his continued leadership and enthusiasm on the PG Bill; geology students in Michigan and student chapters at Central Michigan University and Eastern Michigan University; and, finally, not the least of all, YOU for making this Section what it is. Thank YOU for attending and participating to make this Section great.

Finally, it has been an honor for me to serve this past year as president of Michigan Section. Overall, I think it was a great year to work as a geologist in Michigan, even considering the Michigan economy. If you are interested, I encourage you to get involved with the Section to make an improvement. I have especially enjoyed working with the other members of the Executive Committee (Sara, Jason, Don, Adam, and Scott) who each showed their knowledge and leadership skills to benefit Michigan Section.

Timothy B. Woodburne, CPG  
AIPG Michigan Section President

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## Section Meeting on December 2<sup>nd</sup>

The Michigan Section is pleased to announce that Fred C. Payne, Ph.D and Joseph A Quinnan (both of Arcadis) will discuss "Restoration Hydrogeology – An Emerging Science" at the December 2, 2008 Section meeting. The meeting will be held at Weber's Inn in Ann Arbor, Michigan.

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## Educational Advancement Award Information

December is rapidly approaching which means it is "awards" time again for the Section. As mentioned in previous newsletters, the section has both internal and external awards and/or grants that are

distributed on an annual basis. Nominations for the various awards and grant applications are due by November 21st so that the Executive Committee can evaluate and vote on them, as appropriate. More information on the awards program can be found on the Sections webpage.

As many of you may have heard, Pete Kazor was killed in an accident around the beginning of September. The Michigan Section made a donation to the Pete Kazor Memorial Fund on behalf of his son Samuel.

Jason Lagowski, CPG – 2008 Michigan Section Treasurer and Awards Chairman

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## Change in Newsletter Delivery Policy

*A final reminder...*

Over the past several years, the Michigan Section newsletter and meeting announcements have been delivered to members, nonmembers, and students alike either by email or regular mail. At its February 20, 2008 meeting, the Section executive committee adopted a new policy regarding delivery of the newsletter to help minimize expenses related to postal delivery.

Beginning with the first newsletter issue in 2009, delivery will be by email. For those individuals that cannot or will not receive the newsletter electronically, a hard copy can be mailed; however, a \$15 yearly subscription (paid in advance) will be required. The subscription will be paid directly to the Michigan Section, and will be in addition to regular annual dues. This edition will be the last version of the newsletter delivered by regular mail at no charge to the recipient.

Please be sure that your contact information remains up to date, particularly your email address. Send

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**Circulation** of the Michigan Section Newsletter is to over 330 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.

your contact information to Adam Heft, who is maintaining the Michigan Section database.

If anyone has any questions regarding the newsletter delivery, please contact either Tim Woodburne or Adam Heft.

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## Michigan Section Students – An Ongoing Challenge

Last year I issued a challenge to our Section Membership to involve more students in our meetings in hopes of generating and maintaining interest and ultimately involvement in the Institute as they become professionals in their own right. This year I'm continuing that challenge with a little additional information for those whom I hope will take up the gauntlet.

As before, I'm offering to buy entrance for a student from Grand Valley State University here in Grand Rapids. That's my Alma Mater and I feel I owe them a bit of support. They're also local which makes it a bit easier for me to do so. As before, I'm asking the student to be at my door in time for us to make the social hour before the meeting. And I'm extending the other seats in my vehicle to other students and/or other members or guests who want to ride along. I'm letting them split the \$25 if they wish to bring others. Last year three students from GVSU attended two meetings and I brought along one guest. We also had three other students attend that I'm aware of and a couple of other guests. Let's keep it up!

For this year, I'd like to add that I did a bit of research and have the names and contact information for 17 colleges and universities in Michigan that I'm willing to share. Likely I don't have them all and possibly some have changed. I'll ask Adam to post it on our web page. If you come across something new or can update the list, please let Adam know. What I'd like to ask is that everyone take a minute to check out the list, look around you, note which colleges and universities are within convenient reach and contact them. Ask if there might be students interested in getting involved with the MI-AIPG and attending the meetings. We have student chapters at CMU and EMU and there has been some interest in a chapter at WMU. I'll work on GVSU and we should see where else we can get a foot in the door.

So my challenge to you is this. I'm putting up \$25/meeting out of my pocket. No, Aqua-Tech is not funding this, I am. Surely you can do the same once in a while to better your profession. After all, this is the American Institute of Professional Geologists and the encouragement of others to follow in our footsteps is part of the professionalism.

Lawrence M. (Larry) Austin, CPG, CP

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## Michigan Section Students – Exhibit Your Posters

If you have a poster that you are preparing or have prepared, please consider showing your poster at the next Michigan Section meeting. We would like your poster set up by 5 PM so it can be presented during the social hour, usually 5:30 PM to 6:30 PM. If you provide a poster at one of the meetings, Michigan Section will waive your \$25.00 registration fee. This is a great way for you to get involved and meet other geologists in Michigan with whom one day you may be working. If you are seeking employment, consider also bringing a copy of your resume. Please contact Don Conway, C.P.G., the Section's Secretary to register a poster at our next meeting.

Timothy B. Woodburne, CPG  
AIPG Michigan Section President

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## 45<sup>th</sup> Annual AIPG Meeting Summary

On September 20 to 24, 2008, the 45<sup>th</sup> annual AIPG meeting was held in Flagstaff, Arizona. Nearly 350 participants attended the meeting. Highlights of the meeting included numerous excellent technical presentations, the spectacular scenery, and fantastic field trips.

The Michigan Section was well represented at the business meetings (Executive Committee and Advisory Board meetings) by delegate Sara Pearson. Adam Heft and Larry Austin were also present as spectators. Sara provided information regarding the status of the Michigan Section and its activities. During the Executive Committee meeting, Adam Heft was awarded a Presidential Certificate of Merit by AIPG President Dan St. Germain. During the Advisory Board meeting, Adam was nominated and then elected to the 2009 Advisory Board.



Adam Heft sitting on the south rim of the Grand Canyon.

Michigan members attended most of the available field trips. The weather was perfect, and the trip

leaders were very knowledgeable about not only the destination, but everything in between. A special thanks to Paul Lindberg, who led the Grand Canyon trip on Sunday and the Jerome Mining District trip on Monday. In spite of having one trip participant vanish from the group at the Grand Canyon and turn up back in Flagstaff while the rest of us were still on the way back, the trip was very enjoyable.



Field trip participants on the rim of Meteor Crater, with the San Francisco Peaks visible in the background. Michigan member participants include Larry Austin and Adam and Seraphine Heft.



Sara and Hannah Pearson in front of petroglyphs downstream of Glen Canyon Dam

Selected photographs from the annual meeting are in this newsletter. Additional photographs will be posted in TPG and on the AIPG website.

Adam W. Heft, CPG, Michigan Section Editor

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## Member's Corner

This section is planned to become a regular feature of the newsletter. The executive committee would like to include information about the Section's membership here. This is your chance to provide information on where you are at and what you are doing. If you change employers, or have a new project that you would like to share information about, simply send the information to Adam Heft for inclusion in this section.

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## 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.

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## Pay Your Dues!

This is a reminder to members to please be sure to pay your AIPG membership dues on time. Those that pay late need to understand that the portion of the dues that is normally forwarded to the Section are forfeited to National. Help the Michigan Section by getting your payment in on time.

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## Perspectives on the 45<sup>th</sup> Annual AIPG Meeting

As vice president of the Michigan Section of the AIPG, I enjoyed the privilege of serving as Michigan's delegate at the Annual Meeting. I had the opportunity to meet our national leaders and several representatives from our fellow state sections. I also took advantage of the opportunity to see the fantastic scenery and enjoyed a great field trip to the Grand Canyon.

While at the meeting, I sat in on the executive board meeting and represented our section as a delegate at the advisory board meeting. Both meetings were very interesting, covering a wide range of topics from AIPG's position on climate change to promoting geology education and uniting geologists across the globe. I was very impressed by the topics of discussion and was also reassured that we at the section level share many of the same goals. In fact, we share many goals with most of the other sections, and we also confront many of the same obstacles. Each state delegate present at the advisory meeting (not all sections sent a representative) gave a brief report of the activities in their states including successes and difficulties, which left me with many ideas for our own section.

The parallels I drew from our section and the national level included the promotion of geology education, not only to college level students considering geology as a career, but to K-12 students to peak their interest in the subject at an early age. I remember my first exposure to the natural sciences in 4th grade and developing a real interest in earth science and geology as a freshman in high school. The national executive committee also stressed the importance of educational materials for K-12 students, and we at the section level promote education by offering stipends for educational activities related to the geosciences. Some of our members also travel to schools giving

presentations to kids on various geology-related topics.

I was also pleased to learn how AIPG is reaching out to other professional geology organizations and groups striving to unite geologists not only in the United States, but also worldwide. This 45th Annual Meeting was particularly special since it was held jointly with the Arizona Hydrological Society in conjunction with the Association of Earth Science Editors Annual Meeting and the 3rd International Professional Geologic Conference. Members of the Canadian Council of Professional Geoscientists (CCPG) and the European Federation of Geologists (EFG) were invited guests bringing their international perspectives, which are reciprocated when AIPG representatives attend their meetings. I believe that this sharing and cooperation amongst our different groups can only help us achieve our mutual goal of promoting the profession of geology and gaining support for our work in our dynamic global environment. Discussion also included the International Year of Planet Earth which spans the time from 2007 to 2009. For more information, the website is <http://yearofplanetearth.org>. Another positive step in bringing geologists together that AIPG has taken at the national level is to form an alliance with the Association of Women Geoscientists (AWG). AWG has contracted with AIPG to run their day-to-day business, which is expected to benefit both groups.

At the section level, I also believe that it is important to share with other professional geology groups to achieve similar goals of uniting geologists and gaining support for our profession and the contributions that geologists make to society. We are encouraging the promotion of activities offered by other groups, and we are inviting their members to participate in our activities as well. There is strength in numbers.

The field trip to the Grand Canyon was fantastic. I brought my 12-year old daughter Hanna with me, and we both really enjoyed the experience. Although my daughter will tell anybody that her mother likes rocks way more than she does.

Lastly, I would like to congratulate our own Adam Heft for being elected to the National Advisory Board. I know he will do a great job!

Sara Pearson, CPG, Michigan Section Vice President

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## 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 [hefta@fitzhenne.com](mailto:hefta@fitzhenne.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.

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## Call for Vendors

AIPG is considering hosting a vendor night for our evening meeting in March 2009. We are looking for vendors who be interested in attending our meeting and giving a brief introduction to their products and/or services. If you are interested or know of a vendor who would be interested, please contact Sara Pearson at [pearsons@michigan.gov](mailto:pearsons@michigan.gov) or (616) 356-0253.

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## Candidates for 2009 Section Secretary

As you know, the Section will be voting for a candidate for the position of Section Secretary at the December 2, 2008 Section meeting. This year, we are fortunate to have more than one interested person for this position. A short biography of each potential candidate is presented below for your consideration. If you are unable to attend the December meeting, you can email your vote to Don Conway – send your name and CPG/Member number with your choice of candidate. Please remember to put “AIPG – Section Secretary” in the subject line.

### Dawn L. Prell Mem-0011, CPG-Pending

I became a member of AIPG before I met the minimum requirements for CPG. Initially membership was a credential to further my career. Since being a member, AIPG has provided more benefit by way of its professional members that I ever could have imagined. I received my B.S. in Field Hydrogeology from Western Michigan University in 1995 and have spent the last 13 years employed as a professional geologist in Southeast Michigan. I have been a member of AIPG since 1998 and I am currently employed as a Project Geologist at NTH Consultants, Ltd., in Farmington Hills, Michigan. My recent involvement on the planning committee for the 2007 Annual Meeting and the positive response of the Michigan Section members has proven AIPG-Michigan Section to be a professional organization with a mission toward advancement of the geologic profession and its members.

AIPG's principals of competence, integrity, and ethics are strong in the Michigan Section and our successes have made a difference. If elected to serve as secretary for the Michigan Section- AIPG, I will continue to support the efforts of the section to reach its goal and go beyond to demonstrate the value of AIPG and its members.

Currently I am a Senior Project Geologist with Soil and Materials Engineers, Inc. (SME) in Plymouth, Michigan. My duties consist of managing complex subsurface investigations, feasibility studies and remediation activities. Recently my duties have also included hydrogeological assessments for water supply and storm water infiltration basins. I have been working as a professional consultant for 18 years, of which 14 years have been spent with SME. I received my BS from Northern Arizona University in 1986 and my MS from Western Michigan University in 1991. I am licensed as a professional geologist in Indiana, Arizona, and California.

My reason for seeking this position is to give something back to a profession that has given so much to me. Having recently obtained professional geologist certifications in several states, I think I have something to offer the Michigan Section of AIPG as we pursue legislative approval of a licensing program for professional geologists in Michigan.

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## Coming Events

**November 12, 2008: Michigan Basin Meeting:** John Weber and Heather Brusnahan will be speaking on the Kentland Crater.

**December 2, 2008: AIPG Section Meeting:**  
"Restoration Hydrogeology – An Emerging Science " by Fred C. Payne, Ph.D and Joseph A Quinnan (both of Arcadis).

Location: Weber's Inn, Ann Arbor, Michigan.

Dinner: Choose from: London Broil, Canadian Whitefish, or Chicken Tapenade. All entrees served with tossed house salad, vegetable accompaniments, fresh baked rolls, and dessert and coffee, tea or milk

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

Cost: Students \$25.00, Members \$35.00, Non-members \$40.00.

**RSVP by November 26, 2008:** RSVP to Don Conway at [dgconway@goslingczubak.com](mailto:dgconway@goslingczubak.com). Notice by e-mail is preferred, and please include AIPG in the subject line. Don can also be reached at (231) 933-5132. Reservations not cancelled by November 28<sup>th</sup> will be billed. Checks to AIPG-Michigan.

Students attending the meeting and looking for full-time employment after graduation or a part-time summer position can bring several copies of their résumé. Leave one résumé at the sign-in desk upon arrival. Résumés obtained at the meeting are available to AIPG members seeking job candidates by contacting Kevin Lund, [klund@g-eri.com](mailto:klund@g-eri.com).

**December 10, 2008: Michigan Basin Meeting:** Van der Loo will be speaking on The Snowball Earth: hype or hypothesis? (Pleistocene Basin Glaciation).

**January 14, 2009: Michigan Basin Meeting:** Robert Mannes will be speaking on Niagaran CO<sub>2</sub> Enhanced Oil Recovery.

**March 2009: AIPG Section Meeting:** Details forthcoming, meeting to be held in Lansing.

**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](mailto:robb.gillespie@wmich.edu).

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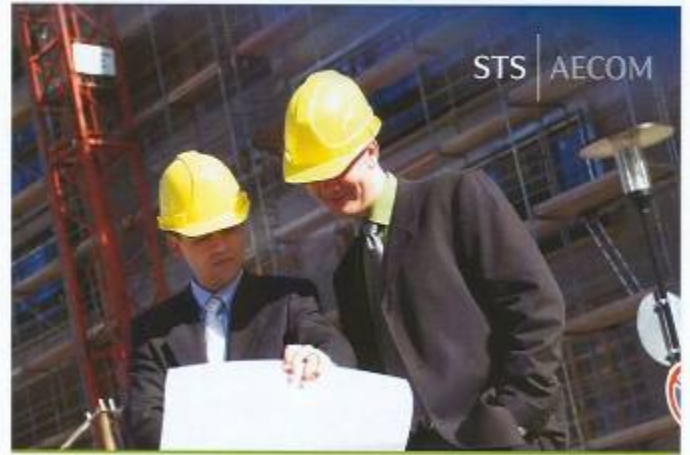
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**IN-DEPTH ENVIRONMENTAL LAW SERVICES**

LOG OF ENVIRONMENTAL LEGAL SERVICES NO. - 1

Project: AIPG Annual Meeting  
Location: Traverse City, Michigan  
Date: October 7-11, 2007

Depth	Legend	Services Description	Positive Problem Solving	Cost Effective	Successful	92%
1		Civil Litigation	Max	+++	95	100
2		State/Federal Administrative Agency Proceedings	Max	+++	95	100
3		Real Estate and Business Transactions	Max	+++	95	100
4		Governmental Relations	Max	+++	95	100
5		Toxic Torts	Max	+++	95	100
6		Insurance Coverage Claims	Max	+++	95	100
7		Environmental Remediation	Max	+++	95	100

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

**December 2, 2008**

## **RESTORATION HYDROGEOLOGY – AN EMERGING SCIENCE**

**Presentation Abstract:** When groundwater contamination became a focus of environmental regulation and restoration in the late 1970s and early 1980s, our understanding of contaminant migration in aquifers, along with all the available tools for site investigation and groundwater cleanup, were rooted in water supply hydrogeology. Since the late 1990s, we have shifted from groundwater extraction (a water supply derived approach to restoration) to more aggressive remedies, such as in situ chemical oxidation or enhanced biodegradation, but the results are often unsatisfactory and cleanup times remain quite unpredictable. To develop more effective in situ treatment designs and to solve the problem of predicting cleanup times, it has been necessary to re-examine how we assess site hydrogeology. The result is the emerging science of restoration hydrogeology. Where water supply hydrogeology views sites through large-scale averaging of key characteristics, restoration hydrogeology focuses on much smaller-scale aquifer structure and groundwater flow characteristics. The emerging science is much more effective at predicting contaminant transport and storage patterns in aquifers and can be used to develop more cost-effective remedies.

Featured Speakers: **Fred C. Payne, Ph.D and Joseph A Quinnan**  
ARCADIS, Inc., Novi, and Brighton, Michigan, respectively

**Location:** Weber's Inn & Conference Center, Ann Arbor, MI (Map attached)  
3050 Jackson Road, Ann Arbor, MI 48103 Ph 734-769-2500

**Cost:** Students \$25.00, 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:** Choice of **London Broil, Canadian Whitefish, or Chicken Tapenade.** All entrees served with tossed house salad, vegetable accompaniments, fresh baked rolls, and dessert and coffee, tea or milk.

**Time:** 5:30-6:30 PM – Registration and social hour  
6:30-7:30 PM – Dinner  
7:30-9:00 PM – Presentation

**RSVP:** Don Conway, at [dgconway@goslingczubak.com](mailto:dgconway@goslingczubak.com) (preferred - put AIPG in the subject line) or (231) 946-9191 no later than November 26, 2008.

**Guest Speaker: Fred Payne, Ph.D.** is Vice President and Director, In Situ Remediation Services, at ARCADIS; his office is located in Novi, Michigan. He has worked for ARCADIS since 1999 and is responsible for the technical performance of soil and groundwater remedies at ARCADIS sites in the United States. He has more than 28 years environmental industry experience, encompassing a broad range of natural resource, wastewater, stormwater and hazardous waste management. Fred is a leader in the design and development of in situ reactive zone technologies for aquifer restoration. In 2005, he coauthored the book In Situ Remediation Engineering with Suthan S. Suthersan and he is the lead author for the book Remediation Hydraulics (2008). He is the inventor of six patented technologies used in the treatment of contaminated soils and groundwater that have been applied with great success at several hundred sites in the United States, Japan, and Europe. He is presently developing enhanced soil and groundwater remedial systems employing chemical oxidation and reduction, as well as biological methods for in-situ destruction of contaminants, with a focus on treatment of difficult compounds such as 1,4-dioxane, nitrosodimethylamine and hydrophobic organic compounds such as hexachlorobenzene and polychlorinated biphenyls. He is a member of the ITRC Bioremediation of DNAPLs team. Fred earned a bachelor's degree in biology/botany from Michigan State University (East Lansing, Michigan) in 1973, and master's and doctoral degrees in limnology from Michigan State University in 1977 and 1982, respectively.

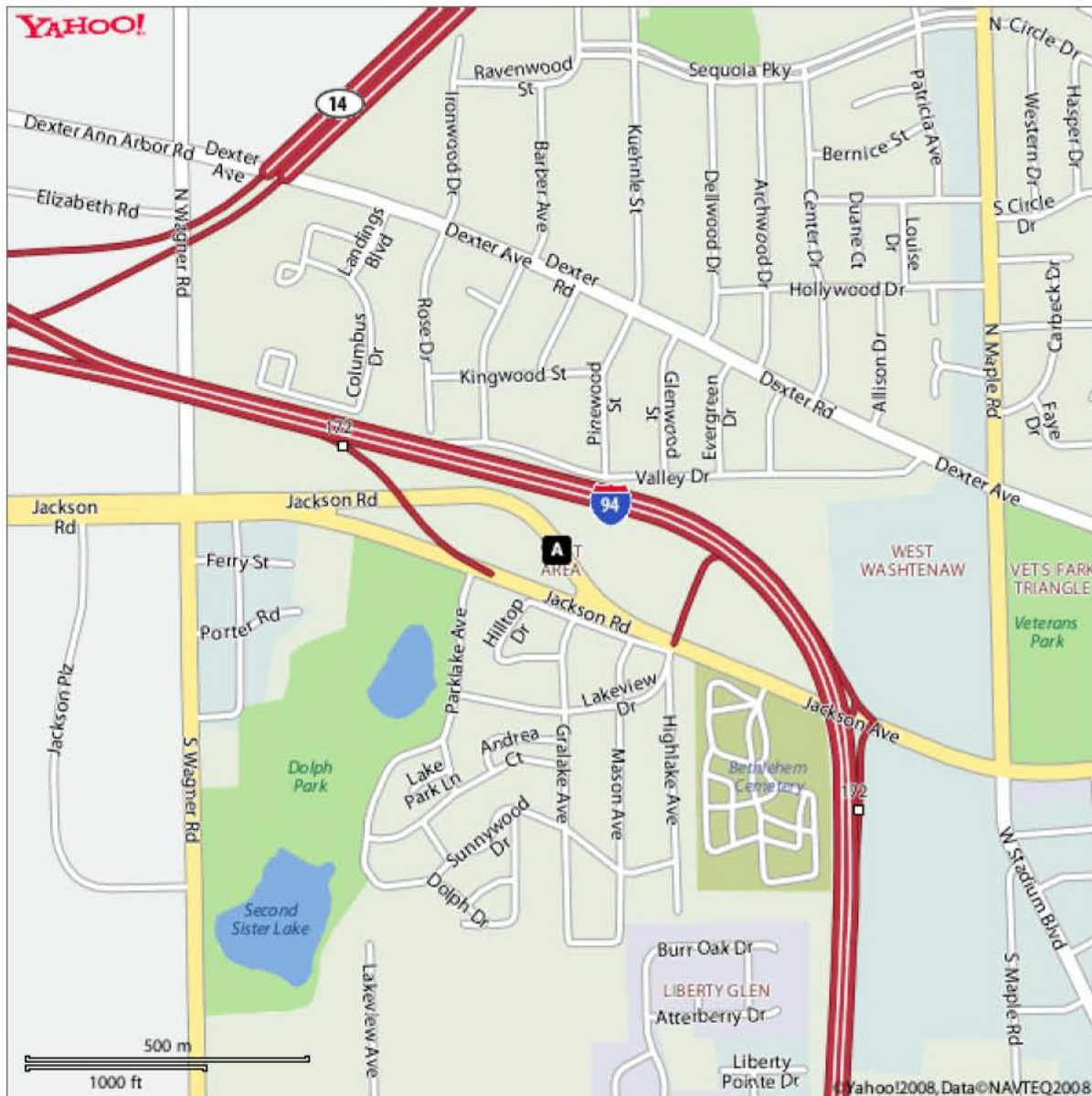
# AIPG Section Meeting December 2, 2008

Webers Inn & Conference Center, Ann Arbor, Michigan

## LOCATION MAP

Map of 3050 Jackson Ave, Ann Arbor, MI 48103-1907

**YAHOO!** LOCAL  
Maps



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.