



American Institute of Professional Geologists Michigan Section

October, 2009

From the President's Desk

Do the years seem to be going by faster than ever? It sure seems like just last week we were planning for 2009, and now we are wrapping up and looking toward 2010. The commercial with the slogan, "Life comes at you fast..." is an understatement.

I am proud to say that in the 2009 whirlwind we have been busy this year in the section making strides forward and preparing for the future. We are very excited about our new website that we developed with help from National and Wendy Davidson. Thank you so much Wendy! The website has great up-to-date information and great pictures from our members. Our goal is to keep this a useful tool not only for our members, but also for those interested in geology and Michigan such as teachers and students. We encourage everyone to check out the website, and if you would like to contribute something or have a suggestion, please do not hesitate to contact Adam Heft.

Speaking of Adam, we are also very pleased that Adam has been elected to the position of National Secretary. Adam will keep us up to date on the latest information from National as well as being a voice for our Michigan Section.

We are also continuing to promote relationships with other professional groups both geology and environmentally based since a large number of our members work in the environmental industry in Michigan. There is strength in numbers and during times when the economy is down, we find that the geosciences and environmental protection and remediation move to the bottom of the list of priorities for spending. I can speak from the State's point of view in that the Clean Michigan Initiative bond money is drying up with no source of revenue identified for future work. We have also heard of the loss of several jobs in the consulting field due to lack of work because companies have cut spending. The stronger our network becomes, the stronger our voice when we need to be heard.

We needed to be heard when the State of Michigan's legislature proposed bills requiring work that is primarily performed by geologists be certified and signed by professional engineers. We sent a letter to each of the representatives and senators informing them of the important role that geologists perform in the environmental industry and asked that our role not be overlooked. Although I believe we were heard, I believe that if we have strong working relationships with other professional geology and environmental organizations, our voice would be even louder. We would be able to support one another when issues where geology or other factors that impact our work are overlooked. I also believe that educating the public about why the role geologists perform is important to society and is necessary. If the public does not understand what a geologist does or the value of this service, then when it comes time to fund this service, it is most likely to be cut due to the lack of understanding.

An example of these cuts is the recent announcement that Michigan State University, promoting itself as one of the top 100 research universities in the world, is considering eliminating their geosciences department. How can a top research university neglect this critical science? Geology is not just a science that involves studying fossils, pretty rocks, or earthquakes in California. The earth is a dynamic, complex system that is constantly changing and affects the daily lives of all people on a variety of scales, and geoscientists are among the experts who have an understanding of how the earth's systems work and what effect they can have on populations. Geologists use their expertise every day for resource exploration, construction and development projects, environmental investigation and cleanup, and for studying climate change to list just a few of the valuable tasks.

This leads to the question - Do the people making the decisions to eliminate programs such as the geosciences understand the role geoscientists perform in society and how important this role is or are they only making decisions based upon dollars

and cents and number of students? If the decisions are only being made by looking at the bottom line, we must ask ourselves why there is so little interest in this field from young people, and what we can do to turn this trend around.

This is the reason why I have stressed the importance of geologists working with kids who are in kindergarten through high school to spark their interest. I will continue to promote this after my term as president is up because I feel that this is a very worthy cause, and I am still pursuing building a relationship with AIPG and Western Michigan University and their Core Kids program. I would like to invite our members to join me in this as I think this is one way that we can promote the field of geology that will be far reaching and long lasting.

One last thing... I have enjoyed my term as an officer for the Michigan Section of AIPG, and I would like to thank everyone for their participation, assistance, and support in helping to make the Michigan Section a great section in which I take pride in being a member.

Sara Pearson, CPG – 2009 Michigan Section President

Section Officers Reports

President: Information presented in the “From the President’s Desk” article above.

Vice President: I recently attended a dinner hosted by one of the Presidents from one of the big three universities in Michigan. Most of his talk centered on current and future school funding (or lack of it) and how the State of Michigan on one hand is talking about the need for an educated work force, but on the other hand isn’t prepared to fund it. Those of us with young adults in college are very familiar with

how to pay rising tuition bills and/or make up the dollars associated with the “un-promise” scholarship that has now disappeared. It is also now apparent that the State of Michigan is also cutting funding to K-12 education by approximately \$160/student across the State and possibly an amount closer to \$300/student.

Times are tough in Michigan at the moment, but I would like to remind all the members that the Section has an educational award program that could be used to help support geosciences programs at their local schools. The application process is simple (the form is available online at the Section website at <http://mi.aipg.org/awards.htm>). Traditionally there has not been a lot of competition for the awards. I highly encourage all members to make their respective schools aware of the award program. Applications for this year will be accepted until November 20, 2009.

Please remember that nominations are also being accepted for the various member awards that have been the subject of earlier articles (details are available on the website), so please email me or another member of the Executive Committee your nominations.

On a related note, it appears that some of our universities/colleges think the geosciences programs are good targets for cost reductions. It recently came to the attention of some of our members that Michigan State University (MSU) is considering eliminating their Geological Science department. In fact, by the time this newsletter is issued, the MSU Provost may have already reached a decision on the department status (positive or negative). I find it truly amazing the value (or lack of it) that some of our schools and society in general places on the earth sciences. I think everyone will acknowledge that

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@manksmithgroup.com); Nominating, Mark Sweatman (msweatman@bcienq.com); Screening, David Regalbuto (dregalbuto@golder.com); Section Regulations & Legislation, Walter J. Bolt (wbolt@manksmithgroup.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.

geology departments tend to be among the smallest at their respective schools. Given some of the key issues facing society (both domestic and global) such as carbon emissions, future energy supplies, etc., the geosciences should be directly involved. The geosciences have a significant role to play in solutions to these problems.

Treasurer: Please Pay Your AIPG Dues

All members should have received their dues statement from AIPG National. Since a portion of our Sections' annual revenues come from the payment of our AIPG membership dues, please make sure to pay them on time. Payments are due before January 1, 2010. After February 1, 2010 payments are considered late. After February 15, 2010, there is a \$20 late fee.

Secretary: I am proud to report that the Michigan Section of AIPG is doing well. We are financially sound, and have held several meetings that have been successful in getting us geologists together to meet and discuss relevant issues, as well as to hear some very interesting presentations. The executive committee members have done a great job in organizing the meetings and the membership has responded with very good turnout. As this will be my last secretary's report (how did that go by so fast?), I'd like to thank each of you for your commitment to excellence in geosciences. I wish everyone a happy and health holiday season and I look forward to serving as section Treasurer in 2010.

Coming Events

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.

November 6, 2009: Midwest Mineralogical & Lapidary Society's Annual Auction; Democratic Club of Taylor, 23400 Wick Rd., Taylor; Sat. 6-10; CONTACT: Cindy & Lou Talley, 30994 Dover, Garden City, MI 48134, (734) 525-1684, cindylou0202@yahoo.com.

November 7, 2009: Michigan Mineralogical Society's Annual Auction; Cranbrook Institute of Science Auditorium, 39221 N. Woodward Ave., Bloomfield Hills; Mon. 7 p.m.; CONTACT: Mildred Hurt, 1211 E. Maxlow, Hazel Park, MI 48030, (248) 398-6693, garnetgeom@peoplepc.com.

November 11, 2009: MBGS Meeting to be held at Central Michigan University. Full details of the meeting are in the MBGS newsletter, and may also be obtained by contacting Mark Wollensak at (517) 719-8321 or by email at wollensak@voyager.net.

December 3, 2009: AIPG Annual Section Meeting: "Michigan Geological Repository For Research and Education Tour" given by Bill and Linda Harrison, and "Climate Change: An Interdisciplinary Science Presentation" by Dr. David Barnes and Dr. David Karowe.

Location: MGRRE, Western Michigan University, Kalamazoo, and the Fetzer Center, Western Michigan University, Kalamazoo.

Dinner: Italian Buffet – includes Caesar Salad, pesto pasta salad, Italian bread sticks, herb grilled chicken, six cheese ravioli, bow tie and penne pasta, bolognese sauce, alfredo sauce, parmesan cheese, chef's choice of vegetable, and assorted desserts.

Schedule: Tour 4:00-5:00 PM. Meeting Cash Bar 5:30-6:30 PM, Dinner 6:30 PM, and Speaker 7:30-9:00 PM.

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

RSVP by November 30, 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 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 approaching the end of my term as a 2009 National Advisory Board representative. As most of you have no doubt heard, I have been elected as National Secretary for the 2010-11 term. I would like to thank each of you for your support which allowed me to achieve this position. I'll continue to provide information to the Section in the newsletters about the activities of National, and where AIPG is heading. 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.

The final National Executive Committee meeting for 2009 was held during the Annual Meeting in Grand Junction, Colorado in early October. The primary items to come out of the meeting included the approval of the revised strategic plan, the approval of the energy statement, and approval of the position statement on climate change. AIPG Foundation representative Ray Talkington provided information about the plans of the Foundation, and what has or will be done to increase visibility and knowledge to members about the purpose of the Foundation.



The 2009-10 combined National Executive Committees.

I would like to remind our Section members that one of the main goals of the National Executive Committee is to find a way to offer additional value to AIPG members. Please 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.



Field trip participants posing for a group photograph in the shadow of Double Arch in Arches National Park.

Remember too that anyone that became a CPG after July 1, 2006 is required to provide documentation on continuing education efforts. You 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 will ensure 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.

In addition to participating in the National Executive Committee meetings, I also enjoyed attending the remainder of the annual meeting. This is a great opportunity for networking and accumulating continuing education hours. The field trips were great, and there were numerous excellent technical presentations.



Field trip participants examining dinosaur fossils at the Rabbit Valley exposures west of Grand Junction.

If you haven't attended an annual meeting, please consider it. Next year's meeting will be held in Orlando, Florida. I would guess that in addition to the usual opportunities afforded by the annual meetings, this one would be a good one to bring the family along (for obvious reasons).

I look forward to continuing to serve on the National Executive Committee as a Michigan Section representative for the next two years.

Adam Heft, CPG –Michigan Section Newsletter Editor

Candidate for 2010 Section Secretary... John Barkach

The information below is a statement of intent for a candidate for Section Secretary for 2010. Voting for this position will be during the Annual Section Meeting to be held on December 3, 2009. Ballots will be available at the meeting, or if you will be unable to attend the meeting, you may send your vote in via email to Dawn Prell at: dprell@nthconsultants.com. Please include a statement of your choice for the position, and include your student, member, or CPG number with your ballot. Results of the election will be announced at the conclusion of the December meeting, and will appear in the first newsletter edition of 2010.

As an officer of the Michigan Section of the AIPG, I would like to continue the Section's work in expanding student membership and providing high

quality, continuing education opportunities to AIPG membership.

John Barkach joined Great Lakes Environmental Center in 2003 as a Senior Program Manager and Hydrogeologist. He has 25 years of experience as a consulting hydrogeologist and has worked primarily with Part 201 and RCRA Corrective Action site investigations, remediation, and closure. Mr. Barkach earned a 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. He is a Certified Hazardous Materials Manager, AIPG Certified Professional Geologist, and a Licensed Professional Geologist in Arkansas, Illinois, and Indiana. Mr. Barkach has been a voting member of ASTM Subcommittee E50.02 since 1990. As an adjunct faculty member, he taught and lectured in conjunction with courses associated with Wayne State University's Master of Science Program in Hazardous Waste Management from 1992 to 2006.

Governor Signs Executive Order to Combine DEQ and DNR

On October 8, 2009 Governor Jennifer Granholm signed an Executive Order calling for the creation of the Department of Natural Resources and Environment (DNRE) which will result from combining the current Departments of Natural Resources and Environmental Quality. The order will take effect on January 17, 2010.

The order is an effort to streamline government by combining two departments that were combined in the past. The mission of the new DNRE will be to conserve, manage, protect and promote Michigan's natural resources and environment and related economic interests for current and future generations. Efforts are currently underway to define the structure of the new department which will be ongoing through the end of December 2009.

The changes to the department will also include changes in the Commission of Natural Resources, which will become the Natural Resources Commission. The members of the commission will still be appointed by the governor with input from the House and Senate. The NRC will also maintain authority over regulating game hunting such as establishing periods of validity for hunting and fishing licenses and the feeding of elk and deer without referring to the DNRE Director. The NRC will also take on the duties currently performed by the Citizens Committee for Michigan State Parks and the Water Resources Conservation Advisory Council. The governor will assume the role of appointing the DNRE Director.

The order also establishes a Trails Advisory Council to assume the duties of the Snowmobile Advisory and the Michigan Trailways Advisory Councils, which are being abolished. The Trails Advisory Council will concentrate on the creation, development, operation and maintenance of snowmobile, equestrian, hiking, off-road vehicle, and skiing trails.

A seven-member Environmental Science Review Board will also be appointed by the DNRE Director to advise the DNRE on scientific issues related to the environment and natural resources.

Sara Pearson, CPG – 2009 Michigan Section President

September Section Meeting Summary

Turnout was good at the Michigan Section meeting held at Tony M's in Lansing in September. There were approximately 80 people in attendance, including a strong student showing. After a lively reception and fine meal, the meeting got down to business. Members were reminded to encourage educators to apply for education awards which will be handed out later this year. Everyone was also reminded that a candidate is still needed to sit on the Michigan Section Executive Committee for the next four years beginning with being Section Secretary in 2010. The nights' guest speakers were Patty Brandt (MDEQ-RRD Part 201 Specialist) and Sara Pearson (MDEQ-RRD Senior Geologist and current Michigan Section President). There were separate presentations regarding C_{sat} criteria and mixing zones. The meeting was adjourned with the confirmation that the next meeting was scheduled for December 3, 2009, which is to be held in Kalamazoo.

Section Website Upgrade

The upgrades to the Michigan Section website continue. The website was completely overhauled early this year, and we have added information as the year progressed. The latest addition to the website will be the addition of geologic photographs. There should be over 200 photographs taken by Michigan Section members and an indexing spreadsheet that describes what the photograph depicts and who took the photograph. These photos are available for use by any of our members or students; the only caveat is that you should give credit for the photograph to the individual who took it. If you have any photograph you would like to add to this collection, please forward it with your name and a short description to Adam Heft, who will see that it gets posted.

Another page that may be added to the website in the future is a history page. This may include information about the history of Michigan geology. The first information to be included with this page is

planned to be about Michigan's first State Geologist, Douglas Houghton.

If you have any suggestions about improving or adding to the website, please forward them to a member of the Section Executive Committee.

Welcome New Members

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

Rebecca Hart, Helene Lukey, Greg Miller

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

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 Treasurer: Don Conway, CPG...

Since receiving my B.S. in Geology from Michigan State University in 1981, I have been fortunate to work in a variety of professional geologic positions. After graduation, I worked as a Geophysicist for Texaco and then Texas Eastern developing petroleum exploration prospects in and around the Gulf of Mexico. In 1986 with the contraction (implosion) of the petroleum industry, I returned to MSU to complete work on my M.B.A., which I had been working towards on a part time basis.

I strayed from the geologic profession for a few years and worked as a Financial and Pricing Analyst for NCR Corporation in Dayton, Ohio. As important as number crunching can be, I knew there was work out in the world that was more gratifying. Fortunately, Geology welcomed back one of its prodigal sons and I have been working for the past 20 years in the environmental consulting industry. I have been a Senior Project Manager at Gosling Czubak Engineering Sciences for the past 13 years. Gosling

Czubak is located in Traverse City where the company recently celebrated its 50th anniversary. Besides environmental consulting services, Gosling Czubak offers civil engineering, geotechnical engineering, materials testing, surveying, drilling and landscape architecture services. My personal work load includes managing healthy amounts of soil and groundwater investigation and remediation projects, landfill and regulatory compliance, development of wellhead protection programs and business development.

My wife Jane and I try to spend as much time as we can in the summer on our sailboat which we keep in West Grand Traverse Bay. The other 10 months of the year usually involve boat work and looking forward to the next sailing season. I really need to do something about that schedule.

Donald G. Conway, CPG –2009 Michigan Section Treasurer

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.

Update on MSU Geological Sciences Department

This information was received as the newsletter was being finalized on November 2nd, and was included to apprise members of the most current information available to the Section Executive Committee.

The proposal to terminate the Department of Geological Sciences was presented to the Michigan State University Board of Trustees for their consideration on 30 October 2009. Their next meeting is 11 December 2009 at which time they may act on the proposal. It appears to some observers that the decision by the university administration is "cast in stone;" thus, appeal to the Board appears to be the only option left.

Consequently, your letters/e-mail/phone calls in support of the department are best directed to:

Trustee Mr. Joel I. Ferguson
Chairman MSU Board of Trustees
1223 Turner, Suite 300
Lansing, MI 48906
517-371-2515
Office lucyjif@aol.com

Copies should also be sent to the President, Provost, and Dean at the following addresses:

Lou Anna K. Simon Ph.D., President
Michigan State University
450 Administration Building
East Lansing, MI 48824-1046
Phone 517 355 6560
Fax 517 355 4670
E-mail: presmail@msu.edu

Kim A Wilcox Ph.D. Provost,
Michigan State University
430 Administration Building
East Lansing, MI 48824-1046
Phone: (517) 355-6550
Fax: (517) 355-9601
e-mail: provost@msu.edu

R. James Kirkpatrick Ph.D. Dean
College of Natural Sciences 104 Natural Science
Building
Michigan State University
East Lansing, MI 48824
Phone: (517) 355-4473
E-mail: rjkirk@cns.msu.edu

The Department faculty was not consulted on this matter and it appears that the decision was based on the failure to achieve some arbitrary and undefined performance on grant overhead revenues, not on failure to achieve the core Land Grant mission of education and research. Neither the Dean nor the Provost has addressed the faculty on the reasoning and rational behind the recommendation. They were officially aware of the proposal to terminate only when it was presented to the Board.

On a positive note, there have been many messages and letters sent in support of the Department. The Department staff believes that this show of support has got the attention of the Provost and the Board of Trustees, and has made a difference. Please continue to follow the developments and provide your support.

Newsletter Sponsors



ADVENTUS

Solid Technology, Superior Value, Proven Results

2871 W. Forest Road, Suite 2,
Freeport, IL USA 61032
Toll-free: 888.295.8661
Fax: (+01) 815.235.3506

www.AdventusGroup.com



Geoprobe® Environmental, Geotechnical
& Horizontal Directional Drilling

P: 800.968.3475
F: 616.863.6879
C: 616.292.0626

271 Rockford Park Dr.
Rockford, MI 49341
www.mateco.com

Steve Bultema
Business Development
sbultema@matecodrilling.com



RAU
DRILLING
BAY CITY • MICHIGAN

Ph: 989-893-8635
Fax: 989-893-9693

Environmental • Geotechnical
[raudrilling@
sbcglobal.net](mailto:raudrilling@sbcglobal.net)

351 North Tuscola Road
Bay City, MI 48708



- Civil Engineering
- GeoEnvironmental & Remediation Services
- Geotechnical Engineering & Mining
- Insurance Services
- Water Resources

5892 Sterling Drive
Howell, MI 48843

877-550-4224

For a growing list of office locations, please visit us online at www.bcieng.com.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica is the leading environmental testing firm in the United States, including 39 laboratories and 28 service centers. TestAmerica provides innovative technical expertise and comprehensive analytical testing services.

For more information on TestAmerica's capabilities, please contact:

Gail Carr
734.205.2530
gail.carr@testamericainc.com

www.testamericainc.com

ftch

fishbeck, thompson, carr & huber
engineers • scientists • architects • constructors

www.ftch.com

1-800-456-3824

Independent Bench-Scale
Testing Laboratory



Global Remediation Technologies, Inc. provides research and laboratory services at the bench-scale level for evaluation of soil and groundwater remediation alternatives

info@grtusa.com | (800) 899-3703 | www.grtusa.com

**Aqua-Tech
CONSULTANTS**

Lawrence M. Austin, CPG
President

540 Leonard NW, Suite G
Grand Rapids, MI 49504

(616) 458-7980

(800) 793-4565

Cell: (616) 299-0136

www.aqua-techconsultants.com
lawm@aquatechconsultants.com

*Environmental & Hydrogeological
Assessment and Remediation*

INSTRUMENT RENTALS



Available
for Immediate
Rental!

A sample of our rental inventory:

- GPS
- Groundwater Sampling Equipment
- PIDs/FIDs
- Soil Sampling Kits
- Toxic Gas Monitors
- Water Quality Sampling
- And much more!!

To view our complete inventory on line please visit
www.ashtead-technology.com

Call us toll-free 800-242-3910

ASHTHEAD
Technology
RENTALS

The Ashtead office servicing your area is located at:

1057 East Henrietta Rd, Rochester, New York 14623 • 585-424-2140



Fibertec
environmental
services

Fibertec

The Choice of Environmental Professionals

- » Analytical Laboratory
- » Geoprobe/Subsurface Investigations
- » Industrial Hygiene
- » NELAC Accredited
- » Electronic Data Deliverables (EDDs)
- » Private Utility Locating

Holt • Brighton • Cadillac (517)699-0345 www.fibertec.us

PEARSON DRILLING CO.

6100 West Blue Road (M-55) • Lake City, Michigan 49651

William F. Pearson, P.E.
President

231-839-4444

231-839-3678 Fax

Email: wpearson@pearsondrilling.biz

www.pearsondrilling.biz

EQ – THE ENVIRONMENTAL QUALITY COMPANY

Total Waste Management
Industrial Cleaning
Waste Treatment
Transportation
Remediation
Recycling
Waste Disposal
Technical Services
Emergency Response
Wastewater Treatment



EQ IS THE ANSWER

36255 Michigan Avenue
Wayne, Michigan 48184
(800) 592-5489 www.EQonline.com

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

DECEMBER 3, 2009

**MICHIGAN GEOLOGICAL RESPOSITORY FOR RESEARCH AND
EDUCATION TOUR
and
CLIMATE CHANGE: AN INTERDISCIPLINARY SCIENCE
PRESENTATION**

Featured Speakers:

Dr. David Barnes and Dr. David Karowe

Geosciences and Biological Sciences Departments, Western Michigan University

Locations: **Tour - MGRRE, Western Michigan University, Kalamazoo, MI (Map attached)**
Meeting - Directions from MGRRE to Fetzer Center, Western Michigan University (attached)

Cost: Students \$10.00 or *free* if presenting a poster*, 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.

***STUDENTS PRESENTING A POSTER ARE ELIGIBLE FOR AIPG'S \$500.00 AWARD FOR BEST POSTER ON A GEOLOGY RELATED TOPIC.**

Dinner: ***Italian Buffet*** — includes Caesar Salad, pesto pasta salad, Italian bread sticks, herb grilled chicken, six cheese ravioli, bow tie and penne pasta, bolognese sauce, alfredo sauce, parmesan cheese, chef's choice of vegetable, and assorted desserts.

Time: **Tour** 4:00-5:00 PM. **Meeting** 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 no later than November 30, 2009.

Tour: **MGRRE** Tour given by **Bill and Linda Harrison**. Geosciences Professor Emeritus Bill Harrison and his wife Linda have received the College of Arts & Sciences Dean's Staff and Faculty Appreciation Award. They have given much of their time to build up the MGRRE and the Department of Geosciences.

AIPG Section Meeting

Guest Speakers:

Dr. David Barnes is a Professor of Geosciences at Western Michigan University and a research scientist at the Michigan Geological Repository for Research and Education at WMU, Kalamazoo, MI. His most recent research activities are focused on accelerating the deployment of Carbon Capture and Geological Storage technologies through the assessment of suitable injection and confining zone strata in the deep Michigan subsurface.

He is currently project manager for Geological Sequestration Characterization research in Michigan for the Midwestern Regional Carbon Sequestration Partnership (MRCSP), one of seven Department of Energy funded Regional Carbon Sequestration Partnerships. He is also PI on the MICHCARB program at MGRRE, a federally funded Geological Sequestration Resource Center at Western Michigan University.



Dr. David Karowe is an Associate Professor of Biological Sciences at Western Michigan University. Dr. Karowe and his students currently are investigating potential ecological consequences of elevated atmospheric carbon dioxide. Dr. Karowe's lab is asking whether and how the nutritional quality and defensive chemistry of plants change under elevated CO₂, whether such changes affect the growth, survivorship, and behavior of higher trophic levels (insect herbivores, parasitoids, and hyperparasitoids), and whether atmospheric change will affect the potential for rapid adaptive evolution of plants and animals.

AIPG Section Meeting December 3, 2009

DIRECTIONS

Michigan Geological Repository for Research and Education,
5272 W. Michigan Avenue, Kalamazoo, MI 49006
(269) 387-8633

Western Michigan University, Kalamazoo



From the South or North

From US131, take exit #36B/Stadium Drive onto Stadium Drive, (west) towards Oshtemo—go ~0.5 miles. Turn right (north) on S. 11th Street (stoplight)—go 0.1 miles. Turn right on W. Michigan Avenue (4-way stop sign)—go 0.3 miles and arrive at 5272 W. Michigan Avenue. Our driveway is the first one just past the US-131 overpass on the left (north), through the fence gates. Our building is the largest one in this fenced area.

From the East or West

From I-94, exit onto US 131 North—go about 2.5 miles and take exit #36B onto Stadium Drive (west) towards Oshtemo—go ~0.5 miles

Turn right (north) on S. 11th Street (stop light)—go 0.1 miles

Turn right on W. Michigan Avenue (4-way stop sign)—go 0.3 miles and arrive at 5272 W. Michigan.

Our driveway is the first one just past the US-131 overpass on the left (north), through the fence gates. Our building is the largest one in this fenced area.

Western Michigan University, Kalamazoo



WESTERN MICHIGAN UNIVERSITY CAMPUS

Directions from MGRRE to Fetzer Center,

Western Michigan University, Kalamazoo, MI

From MGRRE to Fetzer Center

- Turn left out of MGRRE onto W. Michigan Ave.
- Turn left (0.1 mi) at light onto Drake Rd.
- Turn right at light (0.1 mi) onto W. Michigan Ave.
- Continue 1.4 mi, enter campus, go through roundabout, keeping to right and exit circle on Rankin Rd.
- Turn right on Business Court (~.25 mi).
- Fetzer Center parking lot is on left.

