



American Institute of Professional Geologists Michigan Section

May, 2006

From the President's Desk

How old were you when you met your first geologist? I was 16 and worked part time splitting and sampling cores for him. Jerry Dolance was an exploration geologist and I suspect he is now retired. Given that most of the AIPG Michigan Section members work in environmental consulting and make their home in southeast Michigan, a long way from mines and oil wells (the salt mine excluded) which are typically associated with geologists, I suspect that most Section members were much older than I was when they met their first geologist.

The point I'm trying to make is that YOU are likely the only geologist that anyone knows in your circle of friends, family and acquaintances (except for the rare occasions when geologists marry geologists). Although, by and large, the geoscientists in Michigan represent a small group, our work often requires us to deal with the public. Discussing our profession, describing what it is that we do for a living and expressing informed opinions on matters of geological interest to the public is just a part of being a professional geologist. Reaching out to the public is always a major area of focus for the AIPG Michigan Section, and I intend to emphasize public outreach this year.

I know members in the Section who quietly go about talking to students and promoting the geosciences. If you are interested, what is stopping you from making that call to your local school and offering to talk to a class? You and the students will find it a rewarding and enjoyable experience!

The Section is always in need of volunteers and this year is no exception. We are building on past successes and need your help. If you would like to get involved with Section events, please call any member of the executive committee or chairmen listed on the web page and ask how you can help. One particular area where assistance is needed is with the coordination of school grant awards (now that Jim Brode will no longer be volunteering as Award Chair). The Section tries to promote geology through these awards on an annual basis. This is a

great way to promote geology and the AIPG to young people in Michigan.

The Section always accepts donations and because of the Section's non-profit status, your contribution is tax deductible. In an effort to increase the Section's ability to support educational grants and host the 2007 national meeting in Traverse City, we are holding a golf fundraiser again this year. Mark your calendar, put together a foursome and get ready to have a great time at the AIPG golf outing on Tuesday, August 22, 2006 at Majestic Golf Course located near Hartland, Michigan. The announcement and details are attached to this newsletter and also posted on the Section's web page. The Section needs your support.

Is there more that we can do? You bet! Let me hear your ideas!

Kevin Lund

David Baxter to Speak at June Meeting

David A. Baxter will speak at the AIPG Section meeting on June 8 at Tony M's Banquet, 34 South Creyts Road, Lansing, Michigan. His talk is titled "Miners Castle & the Glacial Sea Stacks of the Eastern UP."

A native of East Lansing, Mr. Baxter received both Bachelor of Science and Master of Science degrees in geology at Michigan Technological University. In 1985 he was the editor in chief of the MTU Keweenawan yearbook and photo editor for the Winter Carnival Pictorial magazine. Working as a geological consultant and photographer, his company publishes photographic bookmarks and note cards, selling in many gift shops around the state. His photos have also been published in Michigan Forward, The Towne Courier (East Lansing), The Mining Journal (Marquette), Michigan Travel Bureau archives and publications, and various educational textbooks.

Mr. Baxter's geological career has included work for the Michigan Geological Survey in the Upper Peninsula, where he helped research and author publications on gold in the Archean bedrock of

Marquette County and the potential for platinum deposits across the western UP. He spent several years in the Pacific Northwest mineral exploration and mining industry. More recently, he completed environmental consulting projects at sites throughout the Lower Peninsula of Michigan for clients including large retailers, big three auto makers, local and regional banks, and large law firms.

He is now completing Roadside Geology of Michigan, one of the state by state earth science travel guides from Mountain Press Publishing of Montana, which is planning a 2007 publication date.

National Research Program Lectures

You are invited to attend the U.S. Geological Survey 2006 Research Lectureship Series in Lansing: The lectures are free and open to all. No registration necessary.

The National Research Program (NRP) lectures will be held at the State Library & Historical Center Forum in downtown Lansing (702 W. Kalamazoo St.)

Sponsored by the National Research Program and the Regional Hydrologists, this lecture series is designed to facilitate the interaction and exchange of technical information among scientists in the NRP, USGS State Water Science Centers, cooperators, and/or to university colleagues.

MAY 9, 2006: Tuesday, 2:00 PM @ State Library & Historical Center Forum in downtown Lansing: Faith Fitzpatrick, from Middleton, Wisconsin will speak on "From Landslides to Levees?" Important Links Among Episodic Sediment Movement, Fluvial Landforms, Geologic Setting, and Aquatic Habitat. Tracking long-term, episodic sediment movement in river systems is important because of potential implications for aquatic habitat management, contaminant transport, and stream rehabilitation. Large volumes of sediment can be eroded and transported as a result of catastrophic floods. Depositional landforms, such as natural levees, contain clues to the history of large floods and

possible changes in the sediment transport regime caused by human or natural disturbance. Legacy sediment, combined with underlying geologic controls, can have a substantial impact on present-day channel characteristics, geomorphic processes, and sediment transport.

June 7, 2006: Wednesday, 1:30 PM @ State Library & Historical Center Forum in downtown Lansing: Don Campbell, from Lakewood, Colorado, will speak on "Atmospheric Deposition: It's Not Just Acid Rain Anymore." Acid rain was one of the big environmental issues of the 1980s, and it made us aware of the importance of atmospheric transport as a source of pollutants to sensitive ecosystems. Since then, controls on emissions of sulfur dioxide have resulted in substantially less acidic precipitation in North America and Europe, and many ecosystems are recovering from acid rain. Meanwhile, concerns about deposition of nutrients, mercury, and organic contaminants have increased. These pollutants are found in air emissions from many different sources including transportation, industry, energy production, and agriculture, and their fate in the atmosphere and the ecosystem is controlled by complex biogeochemical processes. They are often transported over great distances in the atmosphere, and their impacts are far more ubiquitous than those of acid rain. Many are potent at very low concentrations, and can bioaccumulate in the ecosystem. New methods for measuring atmospheric pollutant inputs, identifying their sources, and tracking their fate in the ecosystem are improving our understanding of the relation between air and water quality. USGS studies are contributing to the science and helping shape cost-effective policies that protect human health and ecosystems.

Newsletter Notice via E-mail

Save us costs and more quickly receive meeting announcements and newsletters. Submit an updated e-mail address to Ty Black at tyblack@freeway.net or blackt@michigan.gov.

AIPG Michigan Section Officers Bruce Beltman, Past-president, (517) 346-5082 (bbeltman@gwsibiz); Kevin Lund, President, (517) 545-2825 (kevin@insights.com), Scott A. Cesarz, Vice President, (313) 271-2223, (sac@msg-dearborn.com); Tim Woodburne, Treasurer, (616) 364-8491 (twoodburne@preinnewhof.com); Sara Pearson, Secretary, (616) 356-0253, (pearsons@michigan.gov).

Newsletter Editors Tyrone J. Black, 989-705-3402 (blackt@michigan.gov) and Adam Heft, 517-887-1100 (hefta@fitzhenne.com).

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Circulation of the Michigan Section Newsletter is to over 290 members, a number of prospective members, several geology departments, and companies for a total over 450. 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.

2007 Annual Meeting Update

Minutes: Monday, April 17, 2005

The meeting began at 6:00 pm at the offices of Fitzgerald Henne & Associates, Inc. in Lansing. The following individuals were present: Adam Heft, Gary Dannemiller, Ed Everett, Al Blaske, and Kevin Lund.

The exhibit contract has been accepted by ArtCraft Display, and an executed copy received. Ed talked with his local source regarding event cancellation insurance. We should have a quote shortly based on \$100,000.

Kevin Lund provided a summary of the current projected costs and income. The bottom line is that with the assumptions used (130 attendees, 10 exhibitors, and no sponsors) the meeting would be a break even proposition. If we are able to get 30 exhibitors and the sponsors we are planning on, the meeting should be a significant moneymaker for the Section.

Eric plans to get a proposal off to the first choice for the keynote speaker by the end of this week. He will also begin drafting a call for papers for review. This will be sent out in October, but will be posted on the section website national meeting subpage before that.

We discussed the proposal for the ethics short course Tim received from David Abbott. No final decision was reached, but tentatively, we will probably offer it. We may require a minimum number of attendees (10) to be registered by a certain date; this is still open for discussion

Al Blaske summarized information received for the proposed glacial geology field trip; this is coming together nicely. We currently have four trips in the bag at this stage: Mackinac Island, the Marquette Iron Mines, the Glacial Geology of Northwest Lower Michigan, and a Limestone Quarry/Fossil Collecting trip. The current plan is that the Mackinac Island trip would be held Saturday (pre-meeting), the iron mines trip would be two-day, leaving Thursday, the Glacial trip would be held Wednesday, and the limestone quarry trip would be Tuesday. The times may be subject to change.

Ty sent information indicating that 100 letters to potential exhibitors were sent out April 5, and another 50 letters were sent on April 7. He has already received one response asking for additional information (expressing interest) and two expressing regret. Additional letters will go out as he obtains contact name and information for other potential exhibitors.

Ed said that he has heard from the advertiser that wants the inside front cover; they again expressed their intent to take the spot, but wanted additional

information. Ed plans to send out a follow-up to the original set of letters by June 1.

Gary provided information on the cost for printing of the registration book and tote bag from two sources (post meeting). The prices vary depending on the number of pages and whether we need help with the setup of the book.

Adam presented the information sent by Matt; proposed spouse tours: tentatively we will have one, possibly two winery tour trips, a trip to the Grass River Natural Area, a Traverse Highlights Tour, and a spa package trip. Additional information will be forthcoming.

Joe indicated that the letter to the universities is ready, and will be sent out shortly. Nothing else is currently new.

The group selected six photographs of Michigan features for the "Where in Michigan?" contest. Adam will make arrangements for use of the photographs and get caption information for each of the selected photos. They will be submitted to TPG for inclusion in the six issues beginning with the September/October 2006 issue.

A volunteer was suggested be assigned to identify potential speakers for the oil & gas technical presentations, possibly also someone to lead a short course.

Adam also discussed information received just prior to the meeting for the "evening entertainment" for the night of the awards reception. He will look into this further, and send links to the other committee members for review.

The 16th planning committee meeting will be held on May 15th at the office of Strata Environmental in Mason.

The meeting finished at 7:35 pm.

Adam W. Heft, CPG
2007 General Chairman

Members in the news

April 13, 2006 (Plymouth, MI) – Mark K. Kramer, PE, President of Soil and Materials Engineers, Inc. (SME) honored six team members for their hard work; teamwork; commitment and dedication to our clients, their profession and SME; and their professional development activities. In recognition of efforts, Daniel R. Cassidy, CPG, Project Geologist in SME's Plymouth office, was named an Associate. Dan has ten years of experience, including nine years with SME, and specializes in large urban redevelopment projects and providing solutions to environmental challenges, brownfield funding incentives, and constructability issues. He is a Certified Professional Geologist (CPG) through the

American Institute of Professional Geologists (AIPG) and holds a Bachelor of Science degree in Environmental Geoscience/Geology from Michigan State University. He is an active member of AIPG, MAEP, Woodward Avenue Action Association, and a volunteer with the City of Royal Oak Downtown Development Authority Design Committee.

Operational Memoranda Updates

MDEQ-RRD has released Operational Memorandum No. 1, Attachment 8 – Part 201 Csat Concentrations, Part 213 Tier I Csat Concentrations Technical Support Document and Appendix 1 – Part 201 Generic and Part 213 Tier I Soil Saturation Screening Levels (Csat) and Calculated Risk-based Soil Values Greater than Csat.

The revisions to Attachment 8 include provision for development of facility-specific Csat criteria that must be compared to a risk-based value that is included in Appendix 1 to the attachment. Attachment 8 presents the risk-based values that are greater than the generic soil criteria Csat concentrations as well as the generic Csat concentrations.

Attachments 5, 7, and 10 to Operational Memorandum No. 1 are under development and will be released as they are completed.

An Interim Final version of Attachment 7 – Groundwater Modeling to Operational Memorandum No. 4 - Site Characterization and Remediation Verification was released on May 2, 2006. Interim final versions are being released after the peer review process has been completed. The peer review process allows for review and comments from those outside of the department who have volunteered to participate in the process. The comments are then reviewed and incorporated into the interim final versions. The interim final documents are effective upon release; however, the RRD will continue to accept comments for six months after the release date. After the interim six month timeframe, any comments received will be evaluated and the operational memoranda will be finalized accordingly. As the documents are released, there will be notification on the listserver, and the documents will be posted on the website www.michigan.gov/deqrrd.

Peer review has been completed for the attachments 3-9 to Operational Memorandum No. 4, and interim final documents will be released this summer:

Attachment 3 – Sediments

Attachment 5 – Soil Gas and Indoor Air

Attachment 8 – Monitored Natural Attenuation

Attachment 9 – In-Situ Injection

Additional documents are being prepared for peer review. If you would like to participate in the peer

review process, please contact Ms. Patty Brandt at brandtp@michigan.gov or 517-373-4710.

Updates on the Operational Memoranda are also included in the RRD newsletter titled, "The Remediator," which is also available on the website and is the source of some information provided here.

Sara Pearson

State-wide well identification systems

MDEQ Waste and Hazardous Materials Division is participating in the Environmental Data Standards Council (EDSC) which is a partnership among US EPA, States and Tribal partners to develop and agree upon data standards for environmental information collection and exchange. The Council seeks to promote efficient sharing of environmental information between State, US EPA and Tribal partners through the development of data standards. More information about the EDSC is available on the EDSC website at www.envdatastandards.net. The goal is to provide and receive data in a clearly defined and uniform way. Data from multiple sources can then be aggregated and used without the inherent variations that exist between data sets across agencies. They are working on the Environmental Sampling, Analysis, and Results (ESAR) Data Standards. Each state agency can devise a way to assign unique identifiers to monitoring wells (and other sampling locations) for the purposes of eventually receiving ESAR-compliant data.

The other programs are not interested in changing their well identification system so the WHMD will develop a well identification system that works best for that program. One potential method would be to use the Waste Data System database six digit unique facility identification number followed by the facility well point number that already exists; such as MW-24. This way we know which facility the well is associated with and the well point ID is consistent with what is already in the hydrogeologic and monitoring reports. If anyone has other comments, please forward them to Larry Bean at beanl@michigan.gov.

Coming Events

May 4 & 5, 2006: MAEP's Tenth Annual Spring Training, at St. John's Golf and Conference Center in Plymouth, Michigan. HAZWOPER eight-hour refresher will be offered along with the Asbestos Building Inspector Refresher. Details at www.maep.org.

May 8th, 2006: "LNG – What's Happening – and Why!" by John Morgan, BPX Alaska. Society of Petroleum Engineers at Coyote Creek, 6951 Lansing Road, Dimondale, MI 48821. See www.mbgs.org/meetings.html.

May 8-12, 2006: Institute of Lake Superior Geology meeting and field trips. See info below and at following link. www.lakesuperiorgeology.org/Sault2006/index.html

May 9, 2006: Faith Fitzpatrick, from Middleton, Wisconsin will speak on "From Landslides to Levees?" See article National Research Program Lectures."

May 15, 2006: Next Annual Meeting Planning Committee meeting. To be held at the office of Strata Environmental, in Mason.

May 20, 2006: MBGS field trip to Petrolia, Ontario. Information below, contact Leonard Espinosa at 517-335-3248 or at espinosl@michigan.gov

June 1, 6, & 8, 2006: DEQ is hosting the day long Michigan Environmental Compliance Conference in Gaylord on June 1, in Livonia on June 6, and Grand Rapids on June 8. It is a day long event. Details at www.michigan.gov/degworkshops.

June 7, 2006: Don Campbell, from Lakewood, Colorado, will speak on "Atmospheric Deposition: It's Not Just Acid Rain Anymore." See article National Research Program Lectures."

June 8, 2006: AIPG Chapter meeting: "Miners Castle & the Glacial Sea Stacks of the Eastern UP" by David A. Baxter, Geological Consultant.

Location: Tony M's, 3420 South Creyts Road, Lansing, Michigan (517) 322-2069.

Dinner: Buffet.

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

Cost: Students \$25.00, Members \$35.00, Non-members \$40.00. Dinner is buffet style.

RSVP by June 5: Telephone or e-mail registration with Name, Company, Address, Phone, Fax, and Amount Due to AIPG-Michigan Section, c/o Ms Sara Pearson, at pearsons@michigan.gov or (616) 356-0253.

Reservations not cancelled by June 5 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, lundk@michigan.gov.

August 22, 2006: Second Annual AIPG Michigan Section Golf Fundraiser, see details at www.mi.aipg.org.



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MEETING ANNOUNCEMENT

June 8, 2006

Michigan Chapter American Institute of Professional Geologists

Meeting Topics:

Miners Castle & the Glacial Sea Stacks of the Eastern UP By David A. Baxter

Location: Tony M's Banquet at 3420 South Creyts in Lansing, Michigan
SEATING IS LIMITED TO 80 PLACES

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

Dinner: Buffet – Choice of Prime Rib, Baked Chicken, or Pasta Primavera, garlic roasted red skin potatoes, California blend vegetables, salad, bread, coffee, tea, ice tea, and choice of cheese cake or chocolate cake.

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

Guest Speaker: A native of East Lansing, Mr. Baxter received both Bachelor of Science and Master of Science degrees in geology at Michigan Technological University. In 1985 he was the editor in chief of the MTU Keweenaw yearbook and photo editor for the Winter Carnival Pictorial magazine. Working as a geological consultant and photographer, his company publishes photographic bookmarks and note cards, selling in many gift shops around the state. His photos have also been published in Michigan Forward, The Towne Courier (East Lansing), The Mining Journal (Marquette), Michigan Travel Bureau archives and publications, and various educational textbooks.

Contact: Contact : Sara Pearson, at pearsons@michigan.gov or (616) 356-0253 with reservations no later than June 5, 2006