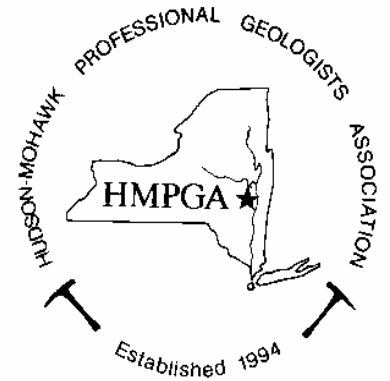


Hudson-Mohawk Professional Geologists' Association

November Newsletter

www.hmpga.org



EVENT DATE: November 16, 2005

Developing the Ordovician Hydrothermal Dolomite Play in New York and Implications for Western Newfoundland

Speaker:

John P. Martin

New York State Energy Research and Development Authority (NYSERDA)

Abstract: Though New York State produced shallow Ordovician Trenton natural gas from the 1870s to the 1930s, the current Trenton/Black River hydrothermal play got its start with the 1982 Auburn Geothermal well in Cayuga County and the 1986 Evangelos well in Steuben County. Significant exploration did not start until the mid-1990s. Since 1994, the natural gas industry has invested more than \$500 million in New York State, primarily to develop the Trenton/Black River reservoirs in and around the Finger Lakes region. As a result, New York's 2004 natural gas production set an all-time record.

The key to developing this play is the understanding the fault geometry and activation history, as well as the fluid migration pattern. Migration of hydrothermal fluids along fractures promotes dissolution, dolomitization and vuggy porosity characteristic of carbonate reservoirs in the Trenton/Black River of central New York State. A number of fluid migration models have been proposed to explain this movement.

Hydrothermal dolomite plays are being pursued in other areas of eastern North America. Though little exploration has occurred in Western Newfoundland, the evidence suggests that there may be a significant Ordovician hydrothermal play in the making. Understanding reservoir development in New York offers insight into the potential of this region's geological legacy.

About the Speaker

John, a HMPGA member, created NYSERDA's Natural Gas Program and has helped develop and fund over 100 projects with total funding of more than \$35 million. In addition to the Natural Gas Program, he has developed and managed wind, solar, geothermal and environmental projects. Prior to his position at NYSERDA, he worked as a researcher and consultant in economic development. John holds a Ph.D. in Urban and Environmental Studies, a M.S. in Economics, and a B.S. in Geology from Rensselaer Polytechnic Institute (Troy, New York). He also holds a M.B.A. from Miami University (Oxford, Ohio).

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HMPGA sponsors, coordinates, and participates in events to help educate the community and its members with respect to geological or geotechnical issues. Events include regular meetings with evening dinners and guest speakers. Other events include workshops, short courses, or field excursions. If you have questions, comments, or suggestions for our organization, please contact a HMPGA Officer or Board Member.

SEPTEMBER'S Meeting and Event Information:

When: November 16, 2005

Schedule:

Calaway Grill
The Saratoga Room
(attached to the Wingate Hotel)
661 Albany Shaker Road, Colonie

Board Meeting	4:30pm
Social Hour	5pm
Dinner	6pm
Program (free)	7pm

Dinner:

\$10.00/person for student members

\$20.00/person for members

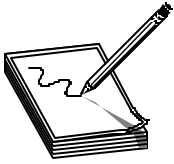
\$22.00/person for non-members

Notes:

Vegetarian or fish meals are available with prior request. Individual will be responsible for the cost of dinner unless a cancellation notice is received 24 hours prior to the meeting. Walk-ins will be charged an additional \$2.00.

Reservations: Reservations are required for dinner attendance. Call or e-mail Diane Welch at (518) 348-6995 or dwelch@alphageoscience.com by noon on **November 16, 2005**. Please register even if you are only attending the Program.

Thank you in advance!



PRESIDENT'S MESSAGE

Greetings fellow HMPGA Members!

Hats off to Mark Williams and the program committee for hitting another home run by inviting Matthew Becker of the University of Buffalo to present a very insightful discussion on characterization of fractured rock hydrogeology. I especially liked Matt's alternative hypothesis for explaining the tailing effect one often sees in tracer studies of fractured rock. His graphic image of ice falls, however, proved all too prescient of near term conditions in the upstate region.

With winter just around the corner, and with the ominous predictions of the future cost of heating our homes, I'm sure almost all of the HMPGA membership will be interested in attending the November 16, 2005 talk by **John P. Martin, Ph.D., Senior Project Manager, Energy Resources R&D, New York State Energy Research and Development Authority (NYSERDA)**. John will be talking about **"Developing the Ordovician Hydrothermal Dolomite Play in New York and Implications for Western Newfoundland"**. With his varied educational background in geology, economics and urban and environmental studies, John will help us see the geologist's silver lining in the dark cloud of skyrocketing natural gas prices (Hint: "New York's 2004 natural gas production set an all-time record.").

We now have a final topic and date for this year's professional workshop. Blayne Hartman, a Clarkson graduate who is one of the pioneers in the field, will be presenting a workshop on **SOIL VAPOR MONITORING, VAPOR INTRUSION, AND INDOOR AIR**. The workshop will be held on Tuesday, April 18, 2006 at the Crossgates Banquet House, Rapp Road & Washington Avenue Extension. Thanks to Mark Williams for all of his efforts in putting the workshop together, and to Steve Le Fevre and his firm Barton & Loguidice, PC for their assistance in applying for CEU's.

We also have a time and place for the annual HMPGA Holiday Party. We will hold the party at the Calaway Grill on Wednesday, December 21. Please come celebrate the holidays and have a drink on us (You'll need it after driving up Wolf Road during the peak shopping frenzy!).

Once again, a reminder that membership renewals are now due. You can download a membership form from the HMPGA website. See you on the 16th of November.

Respectfully, Bill

PS: Kudos to Ted Loukides for his assistance RE: Corporate Sponsorship, and to Bill Miller for his work as the pony express.

(Bill Wertz works for the Department of Environmental Conservation, Division of Environmental Remediation)



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December's Newsletter Deadline:

November 24, 2005

Send MS Word documents via e-mail to mmillus@continentalplacer.com

Any content that appears to express an opinion on behalf of HMPGA will be reviewed by the President prior to publication.

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HELP-WANTED

The Department of Geosciences at Skidmore College is searching for someone to teach a 3 credit hour, combined surface/groundwater hydrology course for the Spring semester. The course is tentatively scheduled for 1 hr and 20 min lectures on Monday and Wednesday evenings. There are no scheduled laboratory sessions.

SCHEDULE: The Spring semester starts on January 23 and ends on May 2, with Final Exams from May 8 to 12. Spring Vacation is from March 11 to 19. This course is usually in high demand and is populated with interested students. We have limited enrollment to a manageable 18 students.

INQUIRIES: Please email a **letter outlining your hydrology and teaching experience and a current CV or resume** to:

Kyle Nichols
knichols@skidmore.edu

We plan on filling this position soon, so please act quickly if you are interested.

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GIS DAY
 NOVEMBER 16, 2005

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Membership Categories

The membership categories of this Association shall be: AIPG Member, Non-AIPG Member, Student Member and Corporate Member. It is up to the discretion of the Board of Directors to approve or deny membership based on qualifications.

1. **AIPG Member** - Any person who is a member of the American Institute of Professional Geologists.
2. **NON-AIPG Member**- Any other person who practices and/or has a degree with a major in the Earth Sciences shall be eligible to be a NON-AIPG Member.
3. **Student Member**- Any full time graduate or under-graduate college student who is studying Earth Sciences shall be eligible to be a Student Member. Upon termination of full-time college work such student membership shall cease, and application for membership as set forth herein may be made.
4. **Corporate Member**- Any corporation or organization whose activities and/or interests concern the science of geology and the advancement of the objectives of the Association. **Corporate Membership** - Admission to and continuation of membership shall be contingent upon: (1) a professional interest in the science of geology and (2) payment of dues.

CONTACT

Mark Williams at (518) 899-3484 (mwilliams@h2hassociates.com) if you would like to join HMPGA!

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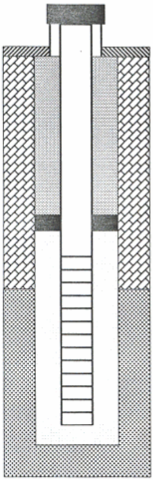


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The Capital District Environmental Breakfast Club is an informal group of environmental professionals that meets monthly to discuss current environmental issues. Each meeting features a speaker on a topic of interest, a regulatory update, and an open forum. Meetings are held on the first Friday of each month except July and August.

The Environmental Breakfast Club meets at the Holiday Inn Turf on Wolf Road in Colonie, New York. Meetings start at 7:30 am. The cost is \$12 per person which includes a full breakfast buffet.

November's Topic of discussion: Department of Environmental Conservation Enforcement

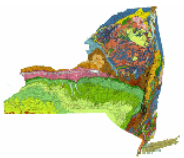
You can find out more details about the Capital District Environmental Breakfast Club at their website:
www.youngsommer.com/CM/Custom/TOCEnvironmentalBreakfastClub.asp



Buffalo Association of Professional Geologists (BAPG)

The BAPG conducts regular membership meetings on the third Wednesday of the month, January through June and September through November, featuring distinguished speakers. Field trips and technical seminars sponsored by the BAPG encourage the exchange of scholarship and expertise.

Visit www.bapg.org for more information!



Central NY Association of Professional Geologists (CNYAPG)

The CNYAPG conducts regular meetings on the second Thursday of each month from September to May. Meetings feature dinner and distinguished speakers whose presentations invite comment and discussion.

Visit www.cnyapg.org for details!



LONG ISLAND ASSOCIATION OF PROFESSIONAL GEOLOGISTS

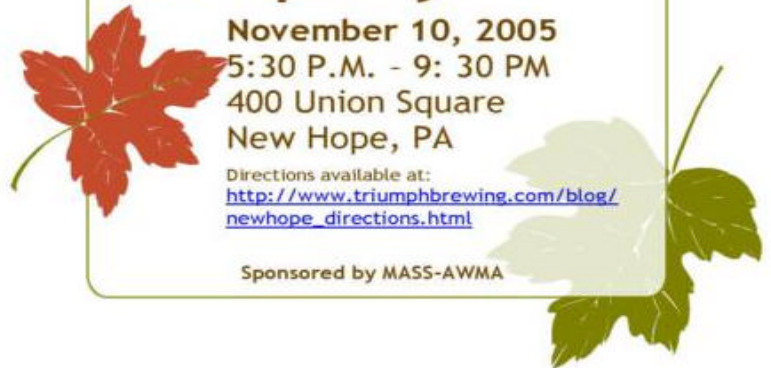
The Long Island Association of Professional Geologists (LIAPG) is a not-for-profit professional organization dedicated to the professional and business needs of geologists located in the Long Island / Metro New York area.

To contact members or view upcoming events sponsored by the LIAPG, go to their website:
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Discover events and information at their website: www.geosociety.org



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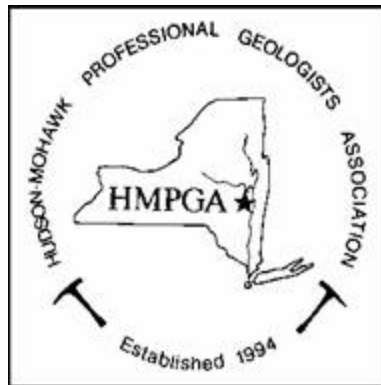
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*The **NYSCPG** strives to strengthen and advance the geologic sciences as a profession, promote the protection of public health and welfare and the environment through the professional practice of geologic sciences, and create high standards of ethical conduct among its members and within the profession of geology, as well as the legal standing of geologists and their ability to practice geology in New York State by promoting the licensing of geologists in New York State through statutory regulation.*

To learn more about supporting the licensure of professional geologists in NYS, visit: www.nyscpge.org

AGENDA

SOIL VAPOR MONITORING, VAPOR INTRUSION, AND INDOOR AIR: A WORKSHOP



APRIL 18, 2006

**~Crossgates Banquet House~
Rapp Road & Washington Avenue Extension
Albany, New York**

<<CEU's PENDING>>

SPONSORING PROGRAM MEMBER: BARTON & LOGUIDICE, P.C.



Attire for the workshop is business casual.

Please put your cell phones and pagers on “silent” or “vibrate” during the course of this Workshop

COURSE OUTLINE

7:30am – 8:30am **TRAINING COURSE REGISTRATION AND COFFEE**

8:30am – 8:45am **WELCOMING REMARKS AND INTRODUCTION**

8:30am – 10:30am **PART 1 – OVERVIEW OF VAPOR INTRUSION**
Blayne Hartman; H&P Mobile Geochemistry

- What is it?
- Why Do You Care About It?
- When Should You Care About It?
- At What Sites/Conditions Need You Care About It?

PART 2 – PRINCIPLES OF VAPOR MOVEMENT
Blayne Hartman; H&P Mobile Geochemistry

- Brief Review of Vapor Movement in the Subsurface
 - ⇒ Fick's Law & Vapor Diffusion
 - ⇒ Rates of Movement
- Henry's Law Constants & How to Use them
- Alpha Factors... What are they? How to use them?

10:30am – 11:00am **BREAK**

11:00am – 12:00pm **PART 3 – REVIEW OF FEDERAL & STATE GUIDANCE**
Blayne Hartman; H&P Mobile Geochemistry

12:00pm – 1:00pm **LUNCH** (provided)

1:00pm – 2:00pm **PART 4 – METHODS TO ASSESS UPWARD VAPOR RISK**
Blayne Hartman; H&P Mobile Geochemistry

- Indoor Air Measurement
- Modeling
- Soil Vapor Surveys

2:00pm – 2:30pm **BREAK**

COURSE OUTLINE (Continued)

2:30pm – 3:45pm **PART 5 – SOIL GAS SAMPLING & ANALYSIS METHODS**
Blayne Hartman; H&P Mobile Geochemistry

- An Overview of Soil Gas Methods
 - ⇒ Passive Soil Gas
 - ⇒ Flux Chambers
 - ⇒ Active Soil Gas
- Details of Active Soil Gas Surveys
 - ⇒ Sampling & Analysis Issues
 - ⇒ Spatial Sampling Strategy
 - ⇒ Vertical Sampling Strategy
 - ⇒ Sub-slab vs. Near-Slab Sampling
- Demonstration of Soil Gas Sample Collection

3:45pm – 4:30pm **PART 6 – MITIGATION METHODS**
Blayne Hartman; H&P Mobile Geochemistry

QUESTIONS & ANSWERS

Dr. Hartman has over 20 years of experience in low-temperature geochemistry, including 7 years as the chief technical person at TEG. **Dr. Hartman's** academic research included a variety of geochemical projects including: petroleum tracing using stable and radiogenic compounds as tracers; gas transfer across air-water interfaces; and gas chromatography of dissolved gases in water and sediments. Prior to founding Transglobal Exploration, **Dr. Hartman** was chief marine geochemist with InterOcean Systems where his responsibilities included direction of marine sediment and bottom-water geochemical exploration programs. As a research geochemist with Unocal Research, **Dr. Hartman** was responsible for development of geochemical prospecting techniques in onshore and offshore applications. These research operations included extensive method development and use of a variety of gas chromatography. Other research included use of stable metal isotopes as correlation parameters for organic materials. As founder and president of Transglobal Exploration & Geoscience in 1988, **Dr. Hartman** has been personally responsible for directing geochemical development, equipment design and maintenance, applications development, and implementation of environmental programs, analyses, and reporting.

SOIL VAPOR MONITORING, VAPOR INTRUSION, AND INDOOR AIR: A WORKSHOP

DATE: **Tuesday, April 18, 2006**
 8:30 AM - 5:00 PM
 Registration: 7:30 - 8:30 AM

COST:

HMPGA Member (before March 1, 2006): \$125
Professional (before March 1, 2006): \$150
Professional (after March 1, 2006): \$200
Student: \$25

<< An additional \$20 fee will be charged if CEU's are requested >>

Please print out the form below when registering for the HMPGA 2006 Short Course. Return completed form with payment to:

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