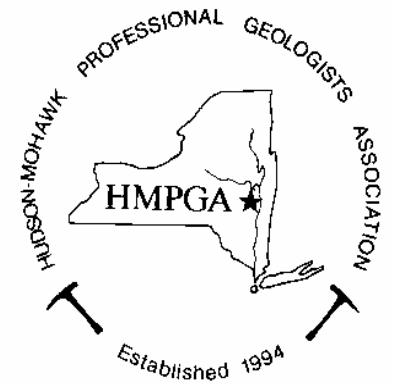


Hudson-Mohawk Professional Geologists' Association

March Newsletter

www.hmpga.org



March 21, 2007

Sodium and Potassium Fluid Infiltration and Iron Mineralization of the Lyon Mountain Gneiss in the Adirondack Mountains

Speaker: Peter M. Valley

Department of Earth Sciences, Memorial University, St John's, NL, A1B 3X5

Abstract: The first documented observation of iron in the Adirondacks was in 1749 by Swedish naturalist Peter Kalm. While visiting Fort St. Fredrick at Crown Point, Kalm described iron sands along the shore of Lake Champlain. The first iron works were built at Skenesborough (now Whitehall) just prior to the American Revolution. Ore was brought down the lake from the Port Henry/Mineville area. Iron mining in the Adirondacks continued for the next 200 years. Notable mines include those at Lyon Mountain, Palmer Hill and Arnold Hill mines at Ausable Forks and the "21 Mine" and Old Bed Ore at Mineville.

The Lyon Mountain Gneiss (LMG) is a 1050 Ma granitic gneiss that crops out extensively in the northeast and east Adirondack Highlands. The LMG is the host to many Kiruna-type, low titanium magnetite deposits and may be one of the best-exposed examples for studying these types of deposits and processes.

Major element chemistry and mineralogy in the LMG is a combination of original igneous composition and secondary fluid alteration. The pervasive alteration is responsible for mobilization and concentration of magnetite ores within the LMG. Iron ore deposits of this type are known to be associated with potassium and sodium metasomatism, high field strength element enrichment (HFSE) and rare earth element (REE) mobilization. Preliminary studies indicate that fluorine may be responsible for iron and trace element transport. Multiple and protracted episodes of fluid alteration are evident from sodium-rich lithologies that crosscut those that are rich in potassium and diachronous U/Pb ages from different ore deposits.

About the Speaker

Peter Valley received his undergraduate degree in geology from Castleton State College in Vermont. He attended the University of Minnesota where he earned a master's degree in metamorphic petrology. His thesis concentrated on pressure-temperature estimates for rocks from the North Cascades in Washington State. Following graduation, Peter worked as a research technician at the University of Wyoming in the radiogenic isotope laboratory. Research was performed on the thermal ionization mass spectrometer and consisted mainly U/Pb geochronology and ground water tracing using strontium isotopes. From Wyoming, Peter worked as the lab manager at the University of North Carolina's isotope lab. Peter is currently working on his PhD at Memorial University of Newfoundland. His thesis focuses on metasomatic alteration, iron mineralization and geochronology of the Lyon Mountain Gneiss in the northeastern Adirondack Mountains.

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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.

March's Meeting and Event Information:

When: March 21, 2007

Schedule:

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

Board Meeting	4:30pm
Social Hour	5:00pm
Dinner	6:00pm
Program (free)	7:00pm

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 Merolla at (518) 348-6995 or dmerolla@alphageoscience.com by noon on March 21, 2007. Please register even if you are only attending the Program.

Thank you in advance!



PRESIDENT'S MESSAGE

As we come to the end of astronomical winter, it's good to know that another season of fieldwork will soon be upon us. Well, maybe not so soon for those in the Erie-Ontario Lowlands and Tug Hill physiographic provinces, but it's coming! Our February dinner meeting was highlighted by our **2nd Annual Cadwell Lecture** featuring **Dr. Andrew Kozlowski**, the New York State Museum's new glacial geologist. Dr. Kozlowski presented some of his very fine work on the glacial and geomorphic evolution of the buried Kalamazoo Valley in southwest Michigan, and described in detail the evidence supporting a catastrophic origin for this valley. We were treated to a wide-ranging discussion of tunnel channels (the apparent source of the flood outburst), erosional residuals, channel morphology, and drainage reversals, to name but a few of the items, located beneath the Saginaw Lobe of the Laurentide Ice Sheet. The Cadwell Lectures are HMPGA's annual tribute to the late **Dr. Donald Cadwell**, a founding member of the association and a friend, mentor, and colleague to those in our membership and beyond.

The **Spring 2007 Field Trip** is scheduled for **Saturday, April 28, 2007** - the trip runs rain or shine! Please see the enclosed registration form and trip waiver - register by April 1, 2007 at the reduced rates of: Student - \$25; Professional - \$40; Professional w/ CEUs - \$50. A \$10 surcharge will be added after March 16th. Our trip leaders of Bob Osborne, Art Palmer, and Paul Rubin will have informative and entertaining discussion topics as we get up-close and personal with some great exposures of the Onondaga and Helderberg carbonates. It's going to be a great mix of geology, history, and economics, and we're very excited to be able to offer such a trip to our membership.

Mark Williams, newly-elected President of NYSCPG and a past-President of HMPGA, provided us with an update on the Licensure front. As most of you are likely already aware, NYSCPG has retained the lobbying services of Whiteman, Osterman and Hanna for the big lobbying push. Mark's discussion highlighted the current political landscape in Albany, specifically that several key pieces of the puzzle have yet to be put in place, and that NYSCPG and its affiliated professional geological organizations will need to stay focused on generating the funds necessary to achieve our common goal. Updates on the Licensure efforts, as well as NYSCPG membership and other information, can be found at www.nyscp.org.

HMPGA will be holding its annual elections for Officers and Board of Directors this spring - if you want to get involved with the running of this great organization, please contact me or any of the current BOD members.

Kudos to **Tom Ebert** and his crew of volunteers for staffing our booth at the James Campbell Gem, Mineral and Fossil Show at the New York State Museum in Albany on February 24th and 25th! Tom has been a tireless supporter of our participation at the annual event, which draws people from all walks and localities, and we're fortunate to have members with such dedication to their profession. Thanks, Tom and crew!

This month's speaker is **Peter Valley**, a doctoral candidate in the Department of Earth Sciences, Memorial University, St. John's, Newfoundland. Pete will be speaking to us about fluid infiltration and alteration of gneissic complexes and their role in the mobilization and concentration of iron-rich deposits and rare-earth elements. The May meeting will feature **Howard Goebel**, a hydrologist with the NYS Canals Corporation, who will be speaking to us about the June 2006 flooding in the Mohawk Valley and its effects on the NYS canal system.

See you on March 21st at the Calaway Grill!

Ted Loukides

Mineral Resources Specialist with the NYSDEC's Division of Mineral Resources in Albany

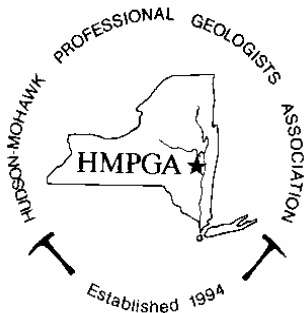


Hudson-Mohawk Professional Geologists' Association Geology Field Trip

Carbonate Geology of the Howes Cave Area Schoharie County, New York

Saturday, April 28, 2007

The 2007 HMPGA spring event is a field trip to the Howes Cave area in Schoharie County, with emphasis on the Onondaga and Helderberg carbonates, and their place in both human and geologic history. This guided tour will include: an opportunity to visit the Schoharie and Cobleskill Quarries to view excellent exposures and geologic features; a look at roadcuts along I-88 where more stratigraphic relationships can be observed; and a visit to the Cave House Museum and Howes Cave Quarry. The Cave House Museum, a restoration of Lester Howe's 1865 gothic-style Cave House hotel, includes the incipient Museum of Mining and Geology. At the Cave House Museum, we will discuss regional cave development; the area mining industry; and the historic period of Howe's Cave and the hotel. Not to mention a look underground via one of the old Howe's Cave entrances. Our field trip will be guided by geologists who will lend their expertise about the area, notably **Bob Osborne** of the Cave House Museum, and **Dr. Art Palmer**, recently retired from SUNY Oneonta's Earth Sciences Department, and a well-known cave expert. Lunch will be provided. Bus transportation will leave Colonie (NYSDOT Parking Lot at 50 Wolf Road) at **8:00 AM** and return around **5:00 PM**.



For further information, contact **Bill Miller** at bmiller@continentalplacer.com or by phone: (518) 458-9203
To participate, mail your registration and waiver forms to:
HMPGA
P.O. Box 5506
Albany, NY 12205-0506

Cost:

\$40 (Professionals) / **\$50** (Professionals with CEUs) / **\$25** (Students)

Space is limited, so early registration is encouraged.

Registration deadline will be **April 1, 2007**.

(Please bring a hard hat.)

Sponsored by:

Hudson-Mohawk Professional Geologists' Association

Cobleskill Stone Products, Inc.

Cave House Museum of Mining and Geology

Hudson-Mohawk Professional Geologists' Association Spring Geology Field Trip
Carbonate Geology of the Howes Cave Area
Schoharie County, New York
Saturday, April 28, 2007

Registration and Release Form

REGISTRATION INFORMATION

Name: _____
Company: _____
Address: _____
Phone: _____

Payment:

_____ **\$40** (Professional)
_____ **\$50** (Professional with CEUs)
_____ **\$25** (Student)

Circle: Check (# _____) Cash

Mail Form to: HMPGA, P.O. Box 5506, Albany NY 12205-5506

For information contact Bill Miller at bmiller@continentalplacer.com or by phone: (518) 458-9203

Please bring a hard hat, if you have one.

RELEASE AND INDEMNITY AGREEMENT

I, _____, hereby state that I wish to participate in the *Carbonate Geology of the Howes Cave Area Field Trip*, sponsored by the Hudson-Mohawk Professional Geologists' Association (HMPGA). I know that HMPGA is not a professional outdoor organization and offers outings cooperatively. The members organizing and leading the field trip are providing this service as unpaid volunteers. I recognize that any outdoor activity may involve certain dangers, including but not limited to the hazards of falling rocks, cold or heat, accidents or illness in remote places, forces of nature, and the actions of participants and other persons.

As a condition of my participation in any part of this field trip, I hereby waive, and release HMPGA and its members and leaders from, any and all liability, claims and causes of action arising out of or in any way connected with my participation in this trip. I personally assume all risks in connection with these activities, and further agree to hold HMPGA and the leaders and sponsors of this activity harmless in the event of any accident, injury, illness, damages or other event that may occur.

The terms of this agreement shall serve as a waiver, release and hold harmless agreement for my heirs, personal representative, and for all members of my family, including any minors accompanying me (parent or legal guardian must sign for all persons under eighteen (18) years of age).

I have fully informed myself of the contents of this waiver, release and hold harmless agreement, by reading before I have signed it.

Signed: _____ Date: _____
Print Name: _____

TIMES UNON ARTICLE STATING "GEOLOGY PROGRAM CONTINUES TO CRUMBLE..."

March 1, 2007

ALBANY -- University at Albany geologists are facing an inconvenient truth: the near-extinction of their program.

UAlbany stopped admitting students to its undergraduate geological sciences major last year. Now, to the irritation of some alumni, the university is moving to close a graduate geology program once ranked among the country's best. Depending on whom you ask, the decision is either a sensible response to budget constraints and shifting student interests or a shortsighted misstep that couldn't come at a worse time.

Events linked to earth and atmospheric sciences are making nonstop news these days, from global climate change to the future of oil resources to Hurricane Katrina and the flooding of New Orleans.

Here in New York, Gov. Eliot Spitzer wants to create a Climate Change Office to lead the state's response to global warming. That's another reason the demise of UAlbany's geology program has rankled alums like Suzanne Baldwin, now a professor of earth sciences at Syracuse University.

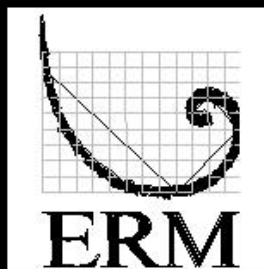
The bachelor of science degree will prepare students for geology jobs in mining, petroleum, government policy and environmental protection, the school said. Others might move on to graduate-level work. Colleges often brag about new majors, but closing old ones can be thorny. Some alumni cut off donations to Union College when it scuttled a civil engineering degree in 2005. Officials at Skidmore College still hear the occasional grumble about a nursing program that folded in 1985.

UAlbany alumni are fighting the geology degree shutdown. The geology program they want to preserve has eroded substantially since its heyday more than two decades ago. What's left occupies a few rooms on the third floor of the Earth Science Building, spaces filled with rolled-up maps and rock-filled metal boxes and mineral samples. Meanwhile, student interest has shifted to other specialties of the department, such as climatology, according to Joan Wick-Pelletier, dean of UAlbany's College of Arts and Sciences.

But a geological sciences professor, William Kidd, described what happened as a "self-fulfilling prophecy." Lack of resources led to a diminished geology department that lacked its former appeal, he said. "It's a sorry tale, that's for sure," Kidd said.

Students can still major in geology at other SUNY campuses like Binghamton and Buffalo, but UAlbany undergraduates are now confined to studying it as a "track" in the environmental sciences B.S. degree.

In late January, faculty of the earth and atmospheric sciences department voted 10-1 to recommend suspending admission to the graduate geology program. Plans call for keeping the subject as a "stream" of the earth and atmospheric sciences Ph.D., and the four professors who teach it will remain with the "reconfigured" department. The eight current students will be able to complete their degrees.



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**HMPGA's Rebuttal to the Times Union Article:
"GEOLOGY PROGRAM CONTINUES TO CRUMBLE..."
~ Ted Loukides, HMPGA President**

This is in response to the Thursday, March 1 article by TU Staff Writer Marc Perry entitled "Geology Program Continues to Crumble." As President of the Hudson-Mohawk Professional Geologists' Association (HMPGA), I am deeply dismayed by the erosion of the geology program at the University at Albany (UA). The geological sciences are a critical, multi-disciplinary field of scientific inquiry, and the notion that a university (or worse - an educational system) would embrace, as prudent business planning, the removal of such lines of inquiry from their offerings is disturbing. Equally disturbing in the article are the comments attributed to Vincent Idone, chair of UA's Department of Earth and Atmospheric Sciences, and Joan Wick-Pelletier, dean of UA's College of Arts and Sciences, which point to tailoring programs to students' "interests." A student should certainly be free to choose a career, but the role of the higher education system is to establish the curricula necessary to prepare students for their chosen career.

A well-educated and properly-trained geologist is one who has studied much more than just 'rocks.' In our academic preparation, we must gain a thorough understanding of the Earth and the processes that have formed it. In our professional lives, we are called upon to synthesize complex data from disparate sources - often accompanied by competing and discordant social, political, and economic overtones - to support sound public policy that affects the lives of citizens everywhere. Our society is fortunate to have geologists who have dedicated themselves to the natural sciences to answer some of the most pressing problems facing society

So what value do geologists provide to society? Geologists find clean drinking water for communities. Geologists evaluate local and regional geologic settings to determine the potentially sustainable use and development of water resources, whether they're deep groundwater or surface water. Geologists are intimately involved in the cleanup of contamination in soils, bedrock, groundwater, and surface water. Geologists locate raw materials used to construct roads, buildings, bridges, dams, and most of the products in your home - and work toward the wise use of these non-renewable natural resources.

Geologists are increasingly being pressed into the search for solutions to environmental issues associated with the end products of fossil-fuel combustion. The rapid disappearance of vast sections of the Antarctic ice sheets provides a stark reminder of the need for well-educated, well-trained geologists in understanding the nature and impacts of human society on our fragile planet.

HMPGA's members include both staff and alumni from UA's geology program that are directly involved local and regional projects that potentially affect the health and safety of the people of New York. The geology program at UA was a tremendous incubator for innovative geologic thought for decades prior to its entering this current period of decline. The College of Saint Rose should be commended for its recent decision to adopt the major of geology in its academic offerings and other academic institutions in this area are similarly commended for their support of the geosciences. We urge the UA's College of Arts and Sciences to reconsider its proposed course of action.

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**BALLOT ELECTIONS and
MEMBERSHIP RENEWALS
ARE COMING UP SOON!**

Next month will be election month for HMPGA. If you would like to nominate a candidate for the 2007-2008 Board, please send your nominee name to Ted Loukides at tnloukid@gw.dec.state.ny.us.

Also, since the end of the HMPGA session is near, it won't be long before your membership is due to be renewed. Get a jump start on your membership or ad placement for 2007-2008. You can download a membership form from the HMPGA website: www.hmpga.org.



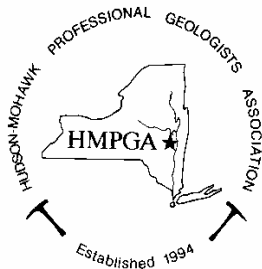
A special thanks goes to Tom Ebert!

Thanks once again for your help in organizing HMPGA's display and staff at the 2007 NYS GEM and Mineral Show. As always, great job!

Don't forget to check the Museum for other interesting events, like thier lunch time talks:

Peak Oil: The End of Life As We Know It?
March 08, 2007 : 12:00 P.M. - 1:00 P.M.
Description: Several recent studies suggest that world oil production will peak in the near future and start to decline, possibly leading to a worldwide economic catastrophe. Museum geologist Dr. Taury Smith will discuss the past, present and future of oil production, the concept of peak oil and the issues surrounding this controversial topic.

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Do you know of a student who is studying Geology or is interested in pursuing science?

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For more details contact Ted Loukides at tnloukid@gw.dec.state.ny.us.

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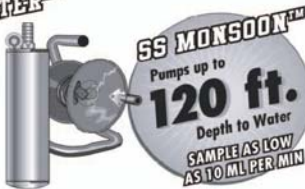
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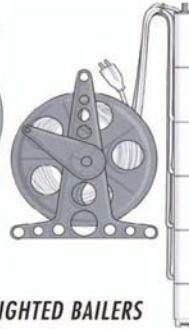
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The Paleontological Research Institution (PRI), parent institution of the Museum of the Earth, celebrates its 75th birthday this year! Founded in 1932 by Cornell geology professor Gilbert Harris, PRI honors its past, while it presses on with its current and future commitment to being a national leader in Earth system change education and paleontological research, the study of the fossil record, and the Earth sciences. These fields provide powerful opportunities to improve public understanding of the natural world and humanity's place in it.

To celebrate, PRI and its Museum of the Earth will be hosting special events, exhibits and programming throughout 2007. We hope you will join us in toasting PRI's diamond anniversary!

Exhibits:

Collection Connections: 75 for the 75th (4/14-10/14). This exhibit will feature 75 fossils from our permanent collections. It will highlight the breadth depth and scholarly importance of the collections at PRI in honor of our 75th anniversary.

Monthly Rotating History Exhibit:

Every Month, beginning in February, we will present a different exhibit highlighting PRI's fascinating journey through time. Be sure to catch these in the lobby of the Museum of the Earth!

For more information on PRI, or the Museum of the Earth, visit:

www.museumoftheearth.org

75th ANNIVERSARY
1932-2007
PRI

For the past twenty years, the Joseph Henry Science Fair has provided a venue for all Albany city students ages 10 – 15, to enter in a science fair competition. Our event is open to students from all schools – public, parochial, and private. Last year we had 110 students, representing 12 schools, and over 50 volunteers from the science and engineering community to judge our student entries. Indirectly, the Joseph Henry Science Fair drives the creation of thousands of science research projects as schools hold local competitions.

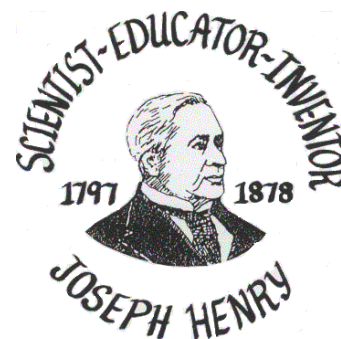
We are a non-profit organization, entirely supported by companies and grants from area organizations that are interested in promoting science education and encouraging young minds to investigate their world. Additionally, we have an endorsement from Congressman McNulty for the promotion of science education.

If you would like to be a judge at this year's science fair, contact Kari Mufad, at (518) 454-5184 or via e-mail: josephhenry@strose.edu

This year's competition is held:
April 20, 2007

Location:
The College of Saint Rose

Information and updates on all events, are available at the Joseph Henry Science Fair website www.strose.edu/Jh



**Call for Papers for the 13th Conference on
“Geology of Long Island and Metropolitan New York”
Saturday, April 14, 2007 at SUNY Stony Brook**

Topics for presentation include general geology, earth science education programs, glacial geology, stratigraphy, sedimentology, coastal geology, applied geology, environmental geology, engineering geology, hydrology, and bedrock studies emphasizing the geology of Long Island and Metropolitan New York. Major goals are to inform participants of ongoing research, to promote further research and collaboration among researchers, to define important areas where research is needed, and to encourage further research on Long Island and in Metropolitan New York.

Deadline for submission of abstracts is March 15, 2007.

Title submissions can be sent by e-mail to gilbert.hanson@sunysb.edu

Each presentation must have an abstract.

We are accepting extended abstracts of up to ten pages, plus figures and references.

The abstracts will be published only on the web. Visit the Long Island Geologists website for submittal format: www.geo.sunysb.edu/liq/

National Ground Water Awareness Week

March 11-17, 2007

What is ground water?

It's the water that fills cracks, voids, and other openings in soil, sand, and bedrock.

Why is it important?

Most ground water flows directly into streams, rivers, and lakes from beneath. Also, persons with wells use it for drinking water.

How much is there?

About 98 percent of the available fresh water on Earth is ground water.



Protect this precious resource!

1 Don't dispose of hazardous substances by dumping them in or on the ground. Contact local waste authorities about proper disposal.

- Pesticides/herbicides
- Antifreeze
- Fertilizer
- Paint/paint thinner
- Oil
- Chemicals

2 Don't pour hazardous substances into drains or sewers.

3 Don't overapply pesticides, herbicides, and fertilizers. Use them in the recommended amounts.

4 When you're handling hazardous substances, do so over cement to avoid ground water infiltration or runoff into surface water from accidental spills.

5 If you own a water well, have your water tested yearly. Also test if there is a change in the odor, taste, or smell.

6 If you own a septic tank, have it cleaned and serviced every two years.

Sponsored by the National Ground Water Association



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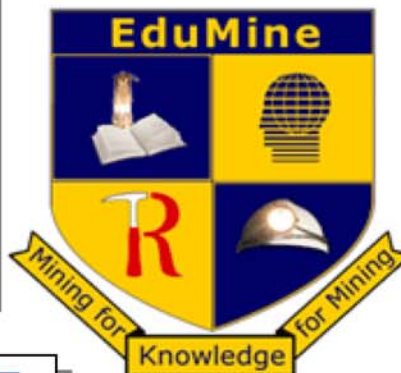
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EduMine collaborates with the Learning Strategies Group of SFU to develop online courses for business applications in mining as components of an SFU Certificate of Business Administration

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Sterling Environmental Engineering, P.C., an environmental and engineering consulting firm specializing in environmental assessments, seeks an individual with a Bachelor or Master degree in geology, earth science or environmental science to join our expanding company.

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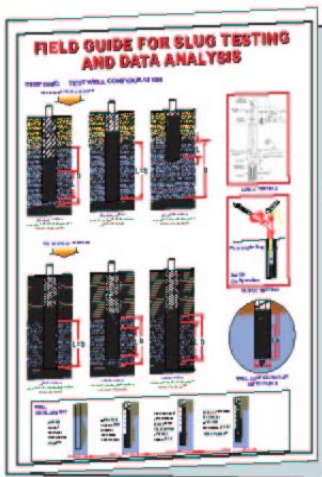
Please submit your resume to Beverly@sterlingenvironmental.com. Resumes may also be submitted by facsimile to (518) 456-3532, or by mail to:

Sterling Environmental Engineering, PC
24 Wade Road, Latham, NY 12110
Attn: Beverly Commerford

Please include relevant project experience, professional references and salary requirements.

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CAPITAL DISTRICT BREAKFAST CLUB PRESENTATIONS:

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.

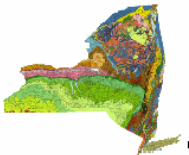
You can find out more details about the Capital District Environmental Breakfast Club at their website:
www.youngsommer.com/CM/Custom/TOCEnvironmentalBreakfastClub.asp



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. Meetings feature distinguished speakers and interesting topics. 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:
www.lipg.org



AIR AND WASTE MANAGEMENT ASSOCIATION (AWMA) NORTHEAST SECTION:

The Mid-Atlantic States Section of the Air and Waste Management Association (MASS-A&WMA) is a professional non-profit association of engineers and scientists working in the environmental field, with a particular focus on issues related to air and waste. The Association strives to provide an opportunity to enhance the profession by providing opportunities for its members to network with other professionals.

Visit the AWMA website for information on professional activities and updated news!
www.mass-awma.net



THE GEOLOGICAL SOCIETY OF AMERICA (GSA)

The GSA strives to be a leader in advancing the geosciences, while enhancing the professional growth of its members, and promoting the geosciences in the service of humankind.

Discover events and information on their website: www.geosociety.org



New York State Museum

The **New York State Museum** is a major research and educational institution. It is dedicated to promoting inquiry and advancing knowledge in the fields of geology, biology, anthropology, and history, through the investigation of material evidence germane to New York State's past, present and future.

For information on upcoming exhibits visit: www.nysm.nysed.gov.



New York State Council of Professional Geologists

*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.nyscp.org



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