



The Geologic History and Stratigraphic Record at Clark Reservation

By Dr. Bryce Hand, Syracuse University

To take advantage of what hopefully will be glorious autumn weather, our September meeting will consist of a walk through Clark Reservation with Dr. Bryce Hand. Dr. Hand will discuss the geologic history of this area with an emphasis on following the sequence of Devonian rocks preserved at the park. The horseshoe-shaped cliffs above the basin at Clark Reservation were created about 10,000 years ago, when the mile-thick glacier that stretched from Pennsylvania to Canada started its retreat. As it receded, meltwater carved out Clark Reservation, most notably the glacial plunge pool basin that contains the lake. Geologists believe the waterfall lasted for 2,000 years and was greater in volume than the American falls at Niagara.

Following our walk through the park, we will retreat to the smaller pavilion at the park where we will enjoy dinner catered by Brooklyn Pickle. The cost for dinner is \$10 for CNYAPG members and \$12 for non-members. Please RSVP by Friday, September 7 to Bonnie at Parratt-Wolff via e-mail at bolney@pwinc.com or 437-1429. Pray for good weather, and we look forward to seeing you all there!

Wednesday, September 12th

Walking tour begins at 5:30 p.m.
Dinner at 6:30 p.m.

Cost is \$10 for members, \$12 for non-members

Location: Clark Reservation

Directions to Clark Reservation: Take Route 481 south to the Jamesville exit. Turn left on Jamesville Road and follow to Route 173. Turn right on Route 173 and go approximately 1.2 miles to the park entrance (on your right).

Our October meeting will take place on Thursday, October 11, 2001 at the Genesee Inn. Dr. Bruce Selleck of Colgate University will discuss modeling of the Tully Valley groundwater system using MODFLOW. More details about this presentation will be provided in next month's newsletter.

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CNYAPG CONTRIBUTORS

BILL MORROW
CHRIS GACHOWSKI
SARAH MCCULLOCH
LYNETTE MOKRY
David Lay

COMING UP FOR OCTOBER

OUR PRESIDENT'S VOICE

By
Bill Morrow

2001 – 2002 PROGRAMING GOALS

By
Bill Morrow and
Chris Gachowski

Dear Members,

CNYAPG is about to start its eighth year of service. During this time, the organization has sought to strengthen the local geologic community in many ways. CNYAPG has:

- Informed the local geologic community with timely programs of local interest. It was not too long ago that over 100 professionals and students gathered to learn about the cause and affect of the Tully Landslide. We once again filled the house as the collapse of the Retsof Salt Mine was detailed.
- Provided a forum for local professionals. On a monthly basis we have had round table discussions about the nature of our business – the joys and frustrations of trying to communicate the complexities of the earth's processes and still bring a project in on budget!
- Developed and maintained support and interest in a licensing bill, giving geologists equal footing with other professions in our state.
- Provided a networking opportunity for those looking to hire and those looking to obtain a new or different job in the geosciences.

One only has to review our Web Site and past newsletters to see how far this organization has come in a very short period of time.

This year we hope to build on our past by offering the following:

- Continued improvement to our website,
- Varying the type and cost of monthly programming,
- Using the "Technologist" as a joint mailer to provide timely information to our members (see the Secretary's report for more information), and
- Improving the quality and content of our own Newsletter, while switching to a tri-annual mailing schedule.

This year's Board of Directors hopes you will enthusiastically support our efforts to maintain CNYAPG as one of the premier local geoscience organizations! I look forward to greeting each of you personally at September's meeting!

Bill Morrow, CNYAPG President

Over the past several months, the Board of Directors has been actively soliciting comments from our members about the type of programming that our membership is seeking. We also sought feedback on the locations of our meetings and the cost of the associated dinners. The basic message we got is that the meetings are too expensive for many members to attend on a regular basis. As a Board we have addressed your concerns in the following ways.

- We have arranged for meetings to be held at venues where an outside caterer could provide a great meal to go with our program, but at a lower cost. A good example of this effort is September's meeting at Clark Reservation. We are offering both an excellent program and a low-cost, high quality meal.
- Our banquet style meals will be moved to the Genesee Inn, located at the bottom of the Syracuse University Hill area. The Inn will provide us with a great venue, with lower cost per meal. These savings will be passed on directly to our members.
- We plan on holding a vendor-sponsored short course prior to some monthly meetings. By offering this free short course, we hope that employers will be more likely to pick up the tab for attending the associated dinner meeting. These short courses will typically run from 5:00 to 6:00 p.m. and focus on specific technical skills that we can use on a daily basis.

By varying our meeting topics, the cost and locations, the Board hopes to attract the most number of attendees as possible. Feedback on our programming is always appreciated. Please contact Chris Gachowski (Vice President) at 853-3827 with your comments.

SECRETARY'S REPORT

By
Lynette Mokry

Directory Update

New York State Council of Professional Geologists (NYSCPG) Update

By
Sarah McCulloch

A Trip to Montezuma By David Lay

As Bill mentioned in his President's column, this year the Board decided to try something different for the newsletter. The main reason is to make it easier to get out a monthly newsletter, leaving us presumably more time to focus on the content of our tri-annual newsletters. From September to June, you will receive the Technologist Newsletter early in the month. The Technologist provides information for several Syracuse area technical organizations (including IEEE, NSPE, and ASCE) that are all members of the Tech Club (see the Tech Club web site www.syrtechclub.org/). Our participation in this joint mailer will allow us to see what other organizations are doing that might be relevant and vice versa. What better way to foster our relationship with other organizations? In addition, CNYAPG will publish our own newsletter in September, December, and April. We are *always* looking for member contributions for future newsletters. If you have a favorite spot with geologic interest, why not take a half an hour or so and write something up? See something cool this summer? This is *your* newsletter. Deadline for inclusion in the Technologist Newsletter is the 10th of the preceding month. You have until December 1 to get into our CNYAPG December newsletter! Please e-mail your contributions to me at LM@BBL-INC.COM

The CNYAPG directory is almost ready for production and we plan to distribute it at the September and October meetings. Many thanks to Steve Rossello for his work on this.

The NYSCPG's efforts to obtain licensure to practice Geology met with partial success on June 21, 2001 when the Senate passed the Bill No. S02383C with a positive vote by 55 Senators (all in attendance).

On June 27, 2001 NYSCPG received direct communication from the Assembly Higher Education Committee Chairman Ed Sullivan who acknowledged his support of the Bill. NYSCPG is currently working with Mr. Sullivan's staff in crafting minor changes to the Bill language that will result in a "D" version. We have 14 Assembly Cosponsors including several members of the Higher Education Committee.

When the legislators return for the 2002 session, it is anticipated the Bill will be moved through the Assembly Higher Education Committee and sent to the floor for a vote. The "D" version will need to be submitted to the Senate for a revote and subsequently signed by the Governor.

When you think about the great natural geological wonders of the nation, places like the Rocky Mountains, Yellowstone National Park, the Grand Canyon, etc. come to mind, but what about New York State? Here in Central New York we have some examples of awesome geological landforms. The glacial features evident in and around Central New York including the numerous moraines, the Finger Lakes, and the expansive drumlin field south of Lake Ontario rival the beauty and inspiration of the western geological wonders. On a recent weekend my wife son and I took a hike on the Esker Brook Trail, part of the Montezuma National Wildlife Refuge located in Tyre, New York. It was a beautiful day for a hike, and it was humbling to hike up and over this large drumlin to the wetlands below, and know that a massive sheet of ice created it thousands of years past with no more effort than it takes me to kick a pebble into the spring pool! The famous parks of the west are impressive and awe inspiring, but we should never overlook the glacial wonders in our own back yard.

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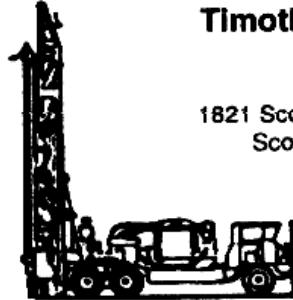
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Calendar

Wednesday, September 12, 2001	<p>CNYAPG Monthly Dinner Meeting Walking tour at Clark Reservation with Dr. Bryce Hand. Executive Board meeting at 4:30 p.m. Walking tour begins at 5:30 p.m., Dinner in park at 6:30 p.m.</p> <p>HMPGA Monthly Dinner Meeting <i>"Sea Level Changes Through Time,"</i> Cranberry Bog Rest., Colonie, NY. Contact Diane Triani at (518)783-1805 or e-mail alphageo@aol.com</p>
September 17, 2001	<p>BAPG Monthly Dinner Meeting <i>"John Hilton: History of Coal Exploration"</i>. Location TBD. Contact Carol Yamarino at (716)684-8060 or e-mail cymarino@ene.com</p>
September 24-26, 2001	<p>Brownfields 2001, McCormick Place Convention Center, Chicago, Il. See http://www.brownfields2001.org/</p>
Wednesday, October 10, 2001	<p>HMPGA Monthly Dinner Meeting <i>"Geologic Explanations for the Great Biblical Myths,"</i> Cranberry Bog Rest., Colonie, NY. Contact Diane Triani at (518)783-1805 or e-mail alphageo@aol.com</p>
Thursday, October 11, 2001	<p>CNYAPG Monthly Dinner Meeting Tully Valley Modeling, by Dr. Bruce Selleck of Colgate University. Dinner and talk at the Genessee Inn, Syracuse. Additional details to follow in the October Technologist Newsletter.</p>
October 12-14, 2001	<p>NYSGA 73rd Annual Meeting, Lamont Doherty Palisades, NY. "The Hudson River: Historical and Environmental Geology". http://www.ldeo.columbia.edu/~polsen/nysga/nysga.ldeo.html Contact Dr. Paul E. Olsen at (845)365-8491 or polsen@ldeo.edu</p>
October 17, 2001	<p>BAPG Monthly Dinner Meeting, TBA. Contact Carol Yamarino at (716)684-8060 or e-mail cymarino@ene.com</p>
November 2001	<p>CNYAPG Monthly Dinner Meeting TBA</p>
December 2001	<p>CNYAPG Monthly Dinner Meeting TBA</p>

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CNYAPG MISSION STATEMENT

The CNYAPG was founded in 1993 to strengthen and advance the geologic sciences as a profession and to provide an open forum for the exchange of ideas; to promote the protection of public welfare through the professional practice of geologic sciences; to inspire and maintain the highest standards of professional conduct, business ethics, and personal honor of the membership; to foster the spirit of scientific research throughout the membership; to publish and otherwise disseminate information related to the geologic sciences and associated technologies; to maintain and encourage intra- and inter-association activities, to enhance the association's programs, and to encourage the affiliation of individual members with other scientific and technical organizations



Visit the CNYAPG Web Site for Updates
<http://www.dreamscape.com/cnyapg>



History of the Salt City

By Dr. Bill Kappel, United States Geological Survey, Ithaca, NY

From the late 1700s through the early 1900s, brine from springs in and around Onondaga Lake, from former brine wells at the lake's edge, and from wells that tapped halite beds near Tully, NY, were used commercially for salt production. The rapid development of this industry in the 18th and 19th centuries led to Syracuse's nickname "The Salt City." The brine originates from halite beds of the Salina Group shales of central New York. The dissolution of halite by groundwater creates brine that moves through an unconfined basal aquifer northward to the springs near Syracuse.

This presentation will discuss the history of salt production in the Syracuse area and will explain the origin of the halite deposits and the groundwater flow paths from the halite beds to Onondaga Lake. It will also discuss the need to understand the hydrogeology of the Onondaga Valley and potential changes in water quality (specifically salt water) in relation to ongoing remediation of Onondaga Lake and its surrounding watershed.

The meeting will take place on **Thursday, October 11 at the Genesee Inn**, 1060 East Genesee Street, Syracuse, NY. From **5 p.m. to 5:30 p.m.** there will be a short course sponsored by Columbia Analytical Services, Inc. The talk will discuss passive diffusion

bag samplers for the collection of groundwater samples for volatile organic analysis. There will be a **cocktail hour from 5:30 p.m. to 6:30 p.m.** **Dinner will be at 6:30 p.m.** and our featured speaker, Dr. Bill Kappel, will begin his **talk at 7:30 p.m.** The cost of dinner is \$17 for members, \$20 for non-members, and \$15 for student members. Please RSVP by Monday, October 8, to Bonnie at Parratt-Wolff via e-mail at bolney@pwinc.com or 437-1429.

Directions to Genesee Inn: To get to the Genesee Inn, take the Teal Avenue exit south from Route 690. Go approximately 1 mile (crossing Erie Boulevard) and turn west onto Genesee Street. The inn is on the south side of the street, between Crouse and University Avenues. The phone number of the Inn is 476-4212.

Our November meeting will take on Thursday, November 8 at the Genesee Inn, and will feature Mr. C.B. Melton, FMC Corporation with a talk entitled "Chemical/Biological Terrorism: Good Science or Science Fiction?" Prior to the dinner meeting, there will also be a short course sponsored by Parratt-Wolff. Further details of the November meeting will be provided in next month's newsletter.

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Thursday, October 11, 2001	CNYAPG Monthly Dinner Meeting, Genesee Inn, Syracuse. Dr. Bill Kappel, USGS, "History of the Salt City." Columbia Analytical Services, Inc. short course on passive diffusion bag samplers from 5 p.m. to 5:30 p.m. Cocktail hour from 5:30 p.m. to 6:30 p.m. Dinner at 6:30 p.m. Talk at 7:30 p.m.
October 12-14, 2001	NYSGA 73rd Annual Meeting , Lamont Doherty, Palisades, NY. "The Hudson River: Historical and Environmental Geology". Http://www.ldeo.columbia.edu/~polsen/nysga/nysga.ldeo.html Contact Dr. Paul E. Olsen at (845)365-8491 or polsen@ldeo.edu
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Thursday, December 13, 2001	CNYAPG dinner and talk at the Genesee Inn, Syracuse. Dr. Bruce Selleck of Colgate University, "Tully Valley Modeling." PLEASE NOTE SCHEDULE CHANGE.



OUR PRESIDENT'S VOICE

By Bill Morrow

I am writing this letter to you one day before our first meeting. As of now, we have 53 folks pre-registered for our visit to Clark Reservation. This is a great turnout for a September meeting! We believe that this number is reflective of the lower cost of the associated dinner, the "general" nature of the topic and the thought of getting outside for a beautiful evening!

Our next meeting should be as equally enjoyable. Bill Kappel is a great speaker with always an entertaining story to tell! For you readers from the other Technology clubs, I hope you will give our monthly meetings a try. The folks that make up CNYAPG are a friendly bunch and would gladly welcome your attendance. We look forward to seeing you soon!

Something to Consider for Field Sampling Programs

By Bill Morrow

I received a contract yesterday that included a detailed work plan. The work plan requires that 3 liters of soil be collected directly above the water table. The contract calls for the driller to collect a soil sample at this location with a Shelby tube or a split spoon sampler. No problem right? Wrong!

to prove this sampler is inappropriate for the conditions, a 3" split spoon will be attempted without success, and a 2" split spoon driven a full 2', yielding not enough soil to meet the project requirements. The net result is lost field time. With a little prior planning, a bowl would already be onsite for compositing the sample and a 4' smear zone sample already approved.

Like many projects, there is a disconnect between the work plan and the reality of the field. A review of the blow counts from previous investigations would clearly indicate that a Shelby tube sampler would be crushed during sample collection. A volume calculation shows that a 2" and 3" diameter split spoon would only collect 0.6 and 2.0 liter sample respectively. The sand is so dense that a 3" diameter split spoon sampler typically has refusal at 12" +/- . If the typical scenario is played out, the driller will crush a Shelby

The next time you plan a field effort, work backwards. What are the volume requirements for the analytical methods and what are my sampler options given the soil conditions? Also, do I need duplicate samples or geotechnical samples? By answering these questions ahead of time, we can minimize field delays and give our cell phones a well-deserved rest!

SOIL SAMPLING GUIDE

Sampling Tool Volumes

Sampling Tool	Inside Diameter		Length		Volume	
	(in.)	(cm.)	(in.)	(cm.)	(cu. in.)	(cu. cm.)
2" OD split-spoon sampler	1.44	3.66	24.0	61.0	39.1	640.5
3" OD split-spoon sampler	2.56	6.50	24.0	61.0	123.5	2024.3
3" by 30" diameter Shelby tube sampler	3.00	7.62	30.0	76.2	212.1	3475.0
Macro Core sampler	1.69	4.29	24.0	61.0	53.8	882.2
Large Bore sampler	1.13	2.87	24.0	61.0	24.1	394.4

A different CNYAPG sponsor's ad will be posted in each issue of the Technologist. In addition to monthly participation in the Technologist, CNYAPG prepares a September, December, and April newsletter for its members. For more information regarding CNYAPG, please contact Bill Morrow, President (315.437.1429, wmorrow@pwinc.com) or Lynette Mokry, Secretary (315.446.9120, LM@BBL-INC.COM).

Volume Requirements

Sample Parameters	Recommended Container ¹		Sample Volume Required	
	Volume (oz.)	Type	(cu. in.)	(cu. cm.)
Volatile organic compounds	4.0	CWM ²	7.2	118.3
Semi-volatile organic compounds	16.0	CWM	28.9	473.2
Metals	8.0	CWM	14.4	236.6
TCLP Extraction	84.5	CWM	152.6	2500.0
PCBs	8.0	CWM	14.4	236.6

Notes:

¹ From Environmental Sampling Guide, Eagle Picher, 1992

² Clear wide mouth

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Chemical/Biological Terrorism: Good Science or Science Fiction?
By Mr. C.B. Melton, FMC Corporation

Believe it or not, an act of terrorism involving chemicals is nothing more than a hazmat incident with a criminal component ... more for law enforcement to do than direct traffic and eat donuts ... and the most dangerous weapons of mass destruction (WMDs) are already in your communities. Are you ready? Do you know what they are and where they are? Explore the scientific and practical response to incidents involving chemical and biological agents from many perspectives: the chemist, the biologist, the manufacturer, and the emergency responder. The strategies for handling these incidents are far less complicated than they have been made out to be. Learn how to protect yourself and your community from both the real WMDs and the *science fiction* that surrounds this topic.

Mr. C. B. "Buzz" Melton is a Senior Environmental Engineer with FMC Corporation's Agricultural Products Group in Baltimore, Maryland. Buzz holds Bachelor of Science and Master of Science degrees in chemistry and environmental science from Johns Hopkins University in Baltimore. Buzz retired from the Baltimore City Fire Department in 1995, following 23 years of service, including 12 years as a Battalion Chief. Buzz is a professional member of the American Society of Safety Engineers, the American Chemical Society, and the National Fire Protection Association. Buzz is a member of the teaching faculties at Johns Hopkins University and University of Maryland School of Pharmacy in Baltimore, where he teaches

undergraduate and graduate courses in environmental science, chemistry, and emergency medicine.

This meeting will be a **joint meeting with the ASCE**, and will take place on **Thursday, November 8** at the Genesee Inn, 1060 East Genesee Street, Syracuse, NY. From 4:30 p.m. to 5:30 p.m. there will be a short course on packer testing sponsored by Parratt-Wolff, Inc. See next page for more details. There will be a cocktail hour from 5:30 p.m. to 6:30 p.m. Dinner will be at 6:30 p.m. and our featured speaker, Mr. Melton, will begin his talk at 7:30 p.m. The cost of dinner is \$17 for members, \$20 for non-members and \$15 for student members. Please RSVP by Monday, November 5 to Bonnie at Parratt-Wolff via e-mail at bolney@pwinc.com or 437-1429.

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Wednesday, November 14, 2001	BAPG Monthly Dinner Meeting, TBA. Little White House Restaurant. Contact Carol Yamarino at (716)684-8060 or e-mail cyamarino@ene.com
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OUR PRESIDENT'S VOICE By Bill Morrow

CNYAPG's fall programming schedule is off to a great start. We had about 50 geologists and friends spend a wonderful September evening at Clark Reservation. Dr. Bryce Hand shared with us a first-hand look at the local stratigraphic section, while illuminating us about the rich depositional history exposed in the Park's bedrock exposures. Our second meeting was a little more formal as it was held at the Genesee Inn. Bill Kappel was his usual animated self and did a great job giving the large audience the history of the Salt City and the entire Tully Valley. A masterful storyteller, Bill did a great job weaving the development of the salt industry with the Tully Valley's hydrogeology.

CNYAPG would also like to thank Columbia Analytical for their informative short-course on passive diffusion bag samplers. About 20 folks attended this program. Parratt-Wolff will be giving a similar type of presentation next month. Please contact Chris Gachowski if you have any ideas for future short-course programs.

I look forward seeing each of you at our November meeting. Given the events of September 11th, the topic is very fitting to all scientists and engineers working in America. As a scientist, I'm sure you often have friends and family turn to your opinions regarding hazardous materials. Here is a chance to stay informed. I look forward to seeing you soon!

Congratulations to Ernie Muller!

At our September meeting, Dr. Ernest Muller was awarded by the Board of Directors "Honorary Life Membership" to CNYAPG. Prior to presenting the award, Ed Hinchey delivered a great testimonial about Ernie, his family, and his many contributions to the local community. I would strongly to encourage you to read the full testimonial that can be found on our website www.dreamscape.com/cnyapg/. The three-page testimonial is a "must-read" for anyone who has had Dr. Muller as a teacher, worked with him as a fellow researcher, or simply calls him a friend.

A Practical Guide to the Use of Packers (a.k.a. Packer Testing 101)

Presented by Parratt-Wolff, Inc., November 8, 2001 – 4:30 to 5:30 PM, Genesee Inn, Syracuse

Parratt-Wolff will be offering a one-hour short course on the many uses of packers. These tools are useful to both the engineer and geologist to collect various forms of data. They can also be used to guide the injection of fluids into subsurface formations. If you want to learn something new (i.e. put a new "tool" in your toolbox) or want to refresh yourself about the use of packers, please join us for this course. The course will be divided into five sections:

- An introduction to a packer(s) and the associated equipment,
- How to use packers to collect discrete groundwater samples and to minimize purge volumes,

- How to use packers to help determine aquifer hydraulic parameters,
- How to use packers to control the placement of various types of grouts and fluids into a formation,
- Practical suggestions on how to write a RFP for the use of packers, and
- Projects and field approaches Parratt-Wolff would like to forget!

The program is free to those registered for the regular monthly CNYAPG dinner meeting. See previous page for additional details.

A different CNYAPG sponsor's ad will be posted in each issue of the Technologist. In addition to monthly participation in the Technologist, CNYAPG prepares a September, December, and April newsletter for its members. For more information regarding CNYAPG, please contact Bill Morrow, President (315.437.1429, wmorrow@pwinc.com) or Lynette Mokry, Secretary (315.446.9120, LM@BBL-INC.COM).

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CNYAPG CONTRIBUTORS

CHRIS GACHOWSKI
SAMUEL GOWAN
MEG HARRIS
SARAH MCCULLOCH
LYNETTE MOKRY
BILL MORROW
RAY SMITH

Hydrogeological Applications of Stable Isotopes of Water: Examples from Central New York State **By Dr. Bruce Selleck, Colgate University**

The stable isotope composition of meteoric water (δD and $\delta^{18}O$) varies systematically with mean annual temperature, but spatial variations related to regional-scale geography and climate are significant. For example, in central New York State the Great Lakes provide a source of isotopically light water that enters surface and groundwater systems via 'lake effect' precipitation. Locally, evaporation from lakes, streams and soil waters may result in somewhat heavier isotopic signatures. These processes are climate-driven so we anticipate that the isotopic character of local waters will change with global warming, and that ancient meteoric waters differed from those of today.

The range of variation in δD and $\delta^{18}O$ in central New York meteoric waters has been under study by students and faculty at Colgate University. Projects include:

1. Sampling of precipitation through the year to determine the range of variation in stable isotopes as controlled by temperature and storm tracks,
2. Analysis of municipal groundwater supplies throughout central and northern New York to assess the impact of lake effect precipitation on groundwater,
3. Study of local domestic well water in a nitrate 'hot spot' to determine recharge sources, and
4. Assessment of evaporation on the stable isotope system in a local marl lake and relationship of water isotopes to mollusk shell isotopes.

Dr. Bruce Selleck (PhD University of Rochester) is Thomas A. Barlett Professor of Geology at Colgate University. He has served as department chair and Provost of the University. His teaching specialties include sedimentology, stratigraphy, surficial geology and hydrogeology. His present research includes analysis of ancient sedimentary and hydrogeology systems in late Cenozoic basins in Alaska, late-stage hydrothermal processes and ore deposits in the Adirondack Orogen and late Pleistocene-Holocene sedimentary processes and hydrologic systems in central New York State.

The meeting will take place on **Thursday, December 13** at the Genesee Inn, 1060 East Genesee Street, Syracuse, NY. There will be a cocktail hour from 5:30 p.m. to 6:30 p.m. Dinner will be at 6:30 p.m. and our featured speaker, Dr. Selleck, will begin his talk at 7:30 p.m. The cost of dinner is \$17 for members, \$20 for non-members and \$15 for student members. Please RSVP by Monday, December 10 to Bonnie at Parratt-Wolff via e-mail at bolney@pwinc.com or 437-1429.

Directions to Genesee Inn: To get to the Genesee Inn, take the Teal Avenue exit south from Route 690. Go approximately 1 mile (crossing Erie Boulevard) and turn west onto Genesee Street. The inn is on the south side of the street, between Crouse and University Avenues. The phone number of the inn is 476-4212.

OUR PRESIDENT'S VOICE

By
Bill Morrow

Dear Members,

When is the last time you got out to a CNYAPG meeting? If your answer is "not recently" then you are really missing out. Last month was the third consecutive meeting where our attendance topped 50! November's program on Chemical and Biological Terrorism was a stretch of our organizations stated purpose. Having said that, I don't think anyone at our November meeting would argue that the program was well worth their time. Mr. Buzz Melton used numerous examples to drive home his point that our Country needs to use rational, scientific-based assessments to determine where our risks are when it comes to chemical and biological terrorism. As an aside, Mr. Melton is currently receiving a speaking fee of several thousand dollars for this program – we paid only his expenses. Here was an opportunity to learn from an expert who has testified on Capital Hill on these issues for the cost of only a dinner.

Although the last three technical programs have been super, to me the most satisfying part of each meeting is providing a networking forum to our members. Its is great to see geologists from various companies, lines of work, students, etc. meeting one another and establishing friends beyond the bounds of the typical work day.

Our December meeting should be another great opportunity to see how a local researcher has applied stable isotopes to central New York surface and groundwater flow systems. How many of you have used isotopes in your site investigations? Isotopes are readily available, relatively inexpensive and maybe a tool you want to put in your toolbox going into the year 2002!

Invitation to Serve

Want to expand your local network? Want to meet some great people? Want to be a giver and not just a taker? Consider serving on the Board of Directors for CNYAPG. Shortly, the CNYAPG nominating committee will be approaching our membership with opportunities to serve during the 2002-2003 programming year. Please give this opportunity careful consideration.

Opportunity for a Free Membership Renewal

Currently, CNYAPG has 120 members. We are pleased with the steady membership growth over the last few years. However, this number only represents a small portion of the practicing geologists in our area. It represents even a much smaller number of geoscience students! As an incentive to expand our membership base, anyone that signs up two new members, will have their membership renewed for an additional year free. With a little effort on our membership, we should be able to top 140 members for the year.

Bill Morrow
CNYAPG President

TREASURER'S REPORT

By Jim Mickam

As of November 30, 2001, our total assets are \$6,543.15. Some financial management issues for consideration in 2002 include:

- Reviewing CNYAPG's liability insurance;
- Funding an undergraduate scholarship; and
- Establishing an independent internet domain.

Geologists' License Update

By Samuel Gowan,
Secretary, NYSCPG

New Environmental Technology Degree Programs at OCC

By Meg Harris

Geologists' Licensure Bill in New York State

The licensing effort for geologists in New York made significant progress in 2001. The New York State Council of Professional Geologists (NYSCPG), with support from the lobbyist (McNamee, Lochner, Titus & Williams, P.C.), obtained memoranda of support from several key organizations. Some of these organizations, such as the New York State Society of Professional Engineers, the New York State Association of Professional Land Surveyors and the New York State Association of Consulting Engineers, took an active interest in the development of the bill. The support from these and several other organizations has been instrumental in moving the bill forward in the legislative process.

The bill (Bill No. S02383) moved quickly through the Senate Committees after sponsorships were gained from nine Senators. A "C" version was passed by the Senate on June 21st. The progress has been much slower in the Assembly where significant gains were made in May when 14 Assemblymen agreed to sponsor/co-sponsor Assembly Bill No. A05262. The bill was subsequently stalled in the Assembly Higher Education Committee, despite the fact that 7 sponsors/co-sponsors are on that committee. NYSCPG is currently negotiating the bill language with Stephanie Sorentino who is on the staff of the Assemblyman Ed Sullivan. Assemblyman Sullivan is the Chairman of the Assembly Higher Education Committee. Chairman Sullivan has indicated that the legislation will get moved through early in the next session.

As always, financial and membership support are essential for the success of the licensing effort. Please check out the NYSCPG web page (www.nyscp.org) for more details about legislative activities and how you can participate.

New Environmental Technology Degree Programs , Onondaga Community College

Four new degree programs are being offered by OCC this year. They include concentrations in Geoscience, Chemistry, Emissions Testing, and Biological Monitoring. The programs are designed to prepare students for entry-level positions as field or laboratory technicians. In addition, on completion of this degree, students will be qualified to transfer to a four-year program in environmental science.

The Geoscience Degree is designed to provide a student with skills in statistics, graphical and mathematical analysis and technical writing necessary for the analysis and preparation of scientific reports. They will be using the latest soil and water testing/monitoring technology to practice proper sampling procedures and documentation methods. They will learn to apply basic computer skills to report writing, to the use of instrumental software, and to mapping and GIS applications. In addition, they will complete the 30-hour OSHA Certification Program and the 10-hour Safety Management Training offered through the National Safety Council.

New courses being offered by the college in support of this degree program this spring semester include a four-credit Hydrology course with lab, an Introduction to Arcview GIS and the OSHA Training course. The classes are open to anyone from the community with an interest in these subjects and the college would like to encourage those interested to enroll. For more information on the degree programs or individual courses being offered, contact Meg Harris at 498-2477 or harrism@sunyocc.edu.

Those involved in the program would like to acknowledge the assistance of many members of the CNYAPG for their input on curriculum development and equipment selection. Members have given their advice, offered internships, and agreed to sit on our Program Advisory Board. In particular, we would like to thank Parratt-Wolff, Inc. They were kind enough to donate their services, installing a monitoring well across the road from campus, on land provided by the Technology Club of Syracuse.

That Old House

By Ray Smith

THAT OLD HOUSE

Everyday as I travel to and from work I pass an interesting old house. It's an old cobblestone house located east of Bridgeport at the intersection of Route 31 and Smith Ridge Road south of Oneida Lake. Thumbing through a coworker's copy of "Roadside Geology of New York" I've discovered a little background into this style of architecture.

As you travel west from Rochester on Ridge Road (Route 104) you encounter many lovely, old cobblestone homes, churches, schoolhouses, and other buildings. While there are a number of patterns nearly all of them have one distinguishing characteristic: the stones are arranged in neat horizontal rows. Practically all of the structures were built in the period from 1825-1860, after completion of the Erie Canal, which lies a few miles to the south. Completion of the canal left many unskilled masons unemployed in this region at about the same time the early settlers were clearing the land. In search of work, the masons offered to build permanent homes for the farmers out of the abundant gravels from the surrounding fields. It became a highly competitive business, with the skills of the many masons pitted against each other. The net result is a variety of patterns and an unusually high level of craftsmanship.

The lake plain along Ridge Road and around Oneida Lake developed during the late stages of Wisconsin glaciation, when glacial Lake Iroquois extended a arm eastward to what is now Oneida Lake. Ridge Road lies atop the beach ridge that delineates the shoreline of former Lake Iroquois. The ridge is made up of sandy, gravelly deposits derived largely from glacial debris reworked by wave action along the Iroquois shore the same way that Lake Ontario waves do today. These deposits provided the masons with their building materials. When the St. Lawrence valley was free of ice, allowing Lake Iroquois to drain through it, the lake shrank rather quickly, leaving the ridge high and dry.

Calendar

November 30 to December 2, 2001	NYSGA 73rd Annual Meeting , Lamont Doherty, Palisades, NY. Contact Dr. Paul E. Olsen at (845)365-8491 or via e-mail at polсен@ldeo.edu?subject=NYSGAMeeting .
Thursday, December 13, 2001	CNYAPG Monthly Dinner Meeting, Genesee Inn, Syracuse. Dr. Bruce Selleck, Colgate University, " <i>Hydrogeological Applications of Stable Isotopes of Water: Examples from Central New York State.</i> " Cocktails at 5:30 p.m. Dinner at 6:30 p.m. Speaker at 7:30 p.m.
Wednesday, January 09, 2002	HMPGA Monthly Dinner Meeting, Holiday Inn Turf, Colonie, NY. " <i>Geophysical Applications to Environmental Problems</i> ", Contact Dianne Trianni (e-mail AlphaGeo@aol.com or call 518-783-1805).
Thursday, January 10, 2002	CNYAPG Monthly Dinner Meeting, Genesee Inn, Syracuse. Dr. David R. Lee, AECL, " <i>Wall-and-Curtain Treatment of Contaminated Groundwater.</i> " Cocktails at 5:30 p.m. Dinner at 6:30 p.m. Speaker at 7:30 p.m.
Tuesday, February 12, 2002 (tentative)	CNYAPG Monthly Dinner Meeting, Genesee Inn, Syracuse. Dr. Amy Leventer, " <i>Adventures in the Antarctic,</i> " additional details TBA.
Saturday, April 6, 2001 SPECIAL EVENT! MARK YOUR CALENDARS!	LACKAWANNA COAL MINE TOUR & ANTHRACITE HERITAGE MUSEUM. CNYAPG will lead a field trip to the Lackawanna Coal Mine. A coach bus will leave Syracuse at 9:00 a.m. and arrive in Scranton in time for a picnic lunch (provided). After lunch we will spend an hour touring the Coal Mine followed by another tour at the adjacent Anthracite Heritage Museum. Children and spouses are welcomed and encouraged to come too!!! It is anticipated that the bus will arrive back in Syracuse around 6:30 p.m. Signup details and trip information will be contained in future newsletters and on our web page. Call Sarah McCulloch at 607-836-4400 or e-mail sarah@geologic.net with any questions.

CNYAPG MEMBERSHIP

In case you were wondering who our CNYAPG members are, here is a list of current members. Check your mailing label to see when your membership expires. Most memberships will be expiring at the end of this year, so please make sure to fill out the enclosed application form and keep your membership current. (Note: for renewals, you do not have to fill out the background information unless there have been changes).

Alfieri, Michael
Ashton, Edward
Atik, P.E., Gaby
Ausburn, Ronald
Bastedo, Jerold
Beinkafner, Katherine
Bernstein, Kevin
Bill, Richard
Bishuk, Jr., Daniel
Blas, Stanley
Boehm, David
Bradford, Nevin
Brickwedde, Richard
Brink, Ron
Bugh, James
Burns, Chris
Byrnes, Tom
Chauvin, Mark
Cirimo, Christopher
Clemence, Samuel
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Craft, Nancy
Creighton, Roger
Darling, Robert
DeMarchi, Vita
DeMatteo, Joe
Drabot, Robert
Fakundiny, Robert
Flick, Greg
Forrester, Lori
Foster, Brayton
Foster, Sue
Fountain, John
Fry, Barry
Gabel, Sharon
Gabriel, William
Gachowski, Christin
Gang III, Robert J.
Gensky, Nancy
Goldenberg, Karen

Goodman, Bill
Gould, Gerald
Gray, John
Guiles, Katharine
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Harrington, Jonathan
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Hinchey, Edward
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Hoskins, Susan
Hudson, Derk
Jaquin, Fred
Johnson, Donald
Johnson, Tim
Johnson, William
Kappel, Bill
Karboski, Frank
Kelley, George
Kiggins, Jeff
Koslosky, Robert
Kueper, Bernard
Lay, David
Leclerc, G. Brent
Lee, George
Lilley, Bill
Loney, Jeffrey
Macrae, Brian H.
McAninich, Brian
McCulloch, Sarah
McCune, Bill
Menzel, Joseph
Mickam, James
Mokry, Lynette
Morrow, Bill
Mowson, Doris
Muller, Ernest
Murray, Katherine
Nelson, Nanette

Nothnagle, Timothy
O'Dell, Chawn
O'Sullivan, Paul
Parratt, Joel
Pepling, Sean
Powers, Susan
Pratt, Nathan
Preyer, Robert
Prucha, John
Randall, John
Rossello, Stephen
Ruppel, David
Samson, Kristin
Sandorf, Jennifer
Siegel, Donald
Smith, Franklin
Smith, Nicholas
Stanfill, Alicia
Stoner, David
Stucker, Steven
Sturick, Christian
Swenson, Guy
Taylor, Carolyn
Thew, Jeff
Thompson, Joel
Van Hoesel, Concordia R.
Vollmer, P.E., Dale R.
Warner, Michael
Weaver, Pam
Weisse, Patricia
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White, Keith
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Wohlabaugh, Norman
Woodrow, Don
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CNYAPG MISSION STATEMENT

The CNYAPG was founded in 1993 to strengthen and advance the geologic sciences as a profession and to provide an open forum for the exchange of ideas; to promote the protection of public welfare through the professional practice of geologic sciences; to inspire and maintain the highest standards of professional conduct, business ethics, and personal honor of the membership; to foster the spirit of scientific research throughout the membership; to publish and otherwise disseminate information related to the geologic sciences and associated technologies; to maintain and encourage intra- and inter-association activities, to enhance the association's programs, and to encourage the affiliation of individual members with other scientific and technical organizations



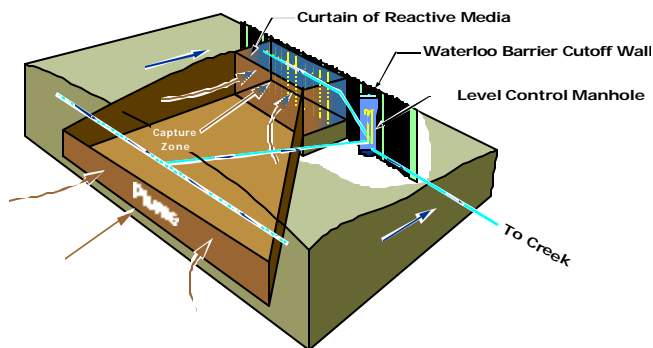
Visit the CNYAPG Web Site for Updates
<http://www.dreamscape.com/cnyapg>

Wall-and-Curtain Treatment of Contaminated Ground Water By Dr. David R. Lee, Atomic Energy of Canada Ltd.

The Wall-and-Curtain treatment of a ground water contaminant plume has been successfully utilized at a former nuclear facility in Canada. Since its installation in December 1998, the Wall and Curtain has been mitigating the discharge of ⁹⁰Sr-contaminated groundwater. Groundwater enters at about 85 Bq/L and exits at < 0.6 Bq/L. The drinking water limit for ⁹⁰Sr is 5 Bq/L.

The groundwater contaminant plume was tracked over a 430-m distance for more than 40 years as it moved from a former nuclear-fuel reprocessing facility toward its predicted point of emergence in Duke Swamp. By 1992, the leading edge of this plume appeared to be located below the margin of the swamp and discharge was imminent. Because it behaves biologically like calcium, ⁹⁰Sr can accumulate in vegetated areas. Therefore it was desirable to place a strontium barrier between the plume and the wetland.

A method was developed that would put a permeable reactive barrier below the surface and have an accessible pipe as its outlet, thus simplifying the problem of performance monitoring. The method was called the Wall and Curtain, and the major components are shown. A steel sheet-pile cut-off wall provides a hydraulic barrier between the groundwater plume and the down-gradient aquifer. Vertical drainage pipes control the flow rate and the cross-sectional area of the groundwater aquifer that is drawn through the curtain. (In this case the curtain is a granular zeolite, clinoptilolite). An upgradient, horizontal drain diverts shallow, uncontaminated groundwater to the creek and reduces the amount of water traversing the reactive curtain.



Wall & Curtain
Plume Mitigation

This permeable reactive barrier is unique. The effluent discharges through a pipe for easy monitoring and the capture zone can be hydraulically adjusted in width and depth. It was the first application of permeable reactive barrier techniques in the nuclear industry.

About the speaker:

David R. Lee did graduate work at the University of North Dakota (methods for measuring groundwater flow to surface waters) and at Virginia Tech. (bioassays for industrial effluents) after serving in Vietnam with a combat engineer battalion. He then worked as a research assistant professor at the University of Waterloo. When he joined AECL in 1979, he continued as an adjunct professor at the university. AECL recognized his inventiveness with two "Discovery Awards," the first for a device that is used to map the beds of surface-waters for groundwater discharge and radioactivity, and the second for a groundwater treatment system that is both passive and hydraulically adjustable.

The meeting will take place on Thursday, January 10 at the Genesee Inn, 1060 East Genesee Street, Syracuse, NY. There will be a cocktail hour from 5:30 p.m. to 6:30 p.m. Dinner will be at 6:30 p.m. and our featured speaker, David Lee, will begin his talk at 7:30 p.m. The cost of dinner is \$17 for members, \$20 for non-members and \$15 for student members. Please RSVP by Monday, January 7 to Bonnie at Parratt-Wolff via e-mail at bolney@pwinc.com or 437-1429.

Directions to Genesee Inn: To get to the Genesee Inn, take the Teal Avenue exit south from Route 690. Go approximately 1 mile (crossing Erie Boulevard) and turn west onto Genesee Street. The inn is on the south side of the street, between Crouse and University Avenues. The phone number of the inn is 476-4212.



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HAPPY HOLIDAYS!

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"QUALITY AND SERVICE THE WAY IT USED TO BE"



A Journey South: Sixty Days in Antarctica
By Dr. Amy Leventer, Colgate University

From January to March 2001, Colgate University geology professors Amy Leventer and Charlie McClennen, Hamilton College geology Professor Eugene Domack, and a team of undergraduates conducted Antarctic research aboard the National Science Foundation research vessel and icebreaker N.B. Palmer. Their mission was to travel to the unexplored reaches of the East Antarctic continental margin, in search of paleoclimate records. Their long-term scientific goal is to understand the magnitude and rate of climate change in Antarctica over the past 10,000 years in order to put modern day warming into a geologic perspective. They returned with 25,000 pounds of mud, in cores that end-to-end stretch a quarter mile. Come hear about their journey: the scientific challenges and accomplishments, the beauty of the southern landscape, and the camaraderie developed on their expedition.

About the speaker:

Amy Leventer is an Assistant Professor of Geology at Colgate University. She received her Ph.D. from Rice University and held a research appointment at the University of Minnesota. Amy is a marine geologist who studies the record of changing climate in Antarctica based on analysis of marine microfossils. She has participated in 14 field seasons in Antarctica, working both on board icebreakers and on the sea ice. The meeting will take place on Tuesday, February 12 at O'Brien & Gere Engineers, 5000 Brittonfield Parkway,

Syracuse, NY. From 4:30 to 5:15 p.m. there will be a short course sponsored by OBG Laboratories, Inc. entitled "Communications with Your Laboratory". The talk will be given by Mr. Tom Alexander and will discuss types of communication to be considered to ensure that your sample results are valid. Issues that will be discussed will include chain of custody, QAPPs, holding times, and problems frequently encountered. There will also be time for any other questions related to lab issues. Following the short course there will be a cocktail hour in the Atrium at O'Brien & Gere from 5:30 p.m. to 6:00 p.m. Dinner will be at 6:00 p.m. and our featured speaker, Dr. Leventer, will begin her talk at 7:00 p.m. The cost of dinner is \$17 for members, \$20 for non-members and \$15 for student members. Please RSVP by Friday, February 8 to Bonnie at Parratt-Wolff via e-mail at bolney@pwinc.com or (315) 437-1429.

Directions:

To get to O'Brien & Gere, take Exit 34A off the Thruway and bear right (481 North). Take the first exit (Rt. 298) and follow the ramp to its end. Turn right on Rt. 298 and the O'Brien & Gere office park will be on your left. Follow the road and O'Brien & Gere Engineers is third and largest building on your left. Please enter at the side door on the south side of the building.

Calendar

Tuesday, February 12, 2002	CNYAPG Monthly Dinner Meeting, O'Brien & Gere, Syracuse, NY. Dr. Amy Leventer, "A Journey South: 60 Days in Antarctica." From 4:30 to 5:15 p.m., short course by Mr. Tom Alexander of OBG Laboratories, Inc. entitled "Communications with Your Laboratory;" from 5:30 p.m. to 6:00 p.m., cocktail hour in the Atrium at O'Brien & Gere; followed by dinner catered by the Dinosaur BBQ at 6 p.m., and Dr. Leventer's talk will begin at 7:00 p.m.
Wednesday, February 12, 2002	HMPGA Monthly Dinner Meeting, Holiday Inn Turf, Colonie, NY. "History of Hudson River Marshlands," Contact Dianne Trianni (e-mail AlphaGeo@aol.com or call 518-783-1805).
Wednesday, February 20, 2002	BAPG Monthly Dinner Meeting, details TBD.
Saturday, April 6, 2001 SPECIAL EVENT! MARK YOUR CALENDARS!	Lackawanna Coal Mine Tour & Anthracite Heritage Museum. CNYAPG will lead a field trip to the Lackawanna Coal Mine. A coach bus will leave Syracuse at 9:00 a.m. and arrive in Scranton in time for a picnic lunch (provided). Children and spouses are welcomed and encouraged to come too! It is anticipated that the bus will arrive back in Syracuse around 6:30 p.m. Signup details and trip information will be contained in future newsletters and on our web page. Call Sarah McCulloch at 607-836-4400 or e-mail sarah@geologic.net with any questions.
Wednesday, April 10, 2002	Geological Society of America's Birdsall-Dreiss lecturer, Dr. Graham Fogg. Details to follow.



OUR PRESIDENT'S VOICE

By Bill Morrow

I trust that this newsletter reaches all of you basking in a wonderful Holiday season. Having an extra couple of days off of work was wonderful. During that time, I had a chance to ponder about what I accomplished and what I hope to do in the year 2002. I also had a chance to catch up on my reading. One article I read compared organizations (i.e. various college football coaching staffs). The article concluded that "Success is not a surprise; it is the product of design orchestrated by competent and detail-oriented men (or women)." This really challenged me to consider my involvement with various groups. To top this off, I recently saw a wonderful documentary movie about a polar expedition to Antarctica led by Ernest Shackleton.

Shackleton and his crew from the Endurance spent the winter of 1914 icebound in their tiny wooden ship. The ice pressure grew so great, it finally collapsed his ship, forcing the crew to live for months on the ice tents. The currents in the Wendell Sea eventually brought their tents to the water's edge. From there the crew sailed to the uninhabited Elephant Island. At that point, about six men made an 800-mile open water trip in a 21' lifeboat to South Georgia Island. Using only six sexton measurements, they were able to hit the 30-mile long island and arrange for a rescue party to pickup their stranded crewmates. All in all, most of the men spent two winters in unheated, indescribable conditions. How many of the men perished? None. Why? Without a doubt providence was with them. But also because they took care of the details each and every day, in everything they did.

In February, we are going to have the opportunity to visit with a Central New York Polar Explorer. Dr. Amy Leventer (Colgate University) has made numerous trips to Antarctica. Even with today's technology, the successes of her research expeditions are in the details! I look forward to seeing all of

you Polar 'wanna-bes' at our next meeting! (P.S. – the Dinosaur BBQ is catering also).

Membership Renewal

Just a reminder, all CNYAPG memberships run from January to December. To confirm your membership status, check your mailing label from the December CNYAPG mailer (not the Technologist newsletter!). Printed on the label is your expiration date. Your continued support of the organization is critical. A membership form can be downloaded off of our website (<http://www.dreamscape.com/cnyapg>).

Elections Are Coming Up!

We are currently pulling a slate of officers and directors together for CNYAPG for our upcoming election. The period of service is June to May each year. Please give careful consideration to serving. It does not take a lot of time, the folks you meet and work with are some of the best, and you have a chance to make a difference for the local geologic community. The most critical position that requires filling is Secretary, although other positions are open as well. We hope to have our nominees pulled together in several weeks.

Future Meeting Dates

If you carefully review the newsletter, you will notice that the location and date of our meetings varies from month to month. There are several reasons for this. The second Thursday of February is Valentine's Day – not a good date to meet for many! In April, we have a chance to have the Geological Society of America's Birdsall-Dreiss lecturer (Dr. Graham Fogg) come and speak – but his available date was the 10th (a Wednesday). The bottom-line, please pay attention the "Calendar" section and/or review our website.

Welcome New Members!

CNYAPG extends a special welcome to our new members: Joseph Button, Larry Day, and Nancy Reese.

A different CNYAPG sponsor's ad will be posted in each issue of the Technologist. In addition to monthly participation in the Technologist, CNYAPG prepares a September, December, and April newsletter for its members. For more information regarding CNYAPG, please contact Bill Morrow, President (315.437.1429, wmorrow@pwinc.com) or Lynette Mokry, Secretary (315.446.9120, LM@BBL-INC.COM).



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A Journey to Everest

By Terry LaFrance, NYS Department of Environmental Conservation

The Story: For 2 ½ months in the spring of 2001, Terry LaFrance climbed with the International Mountain Guides Inc. Mallory and Irvine Research Expedition. The goal of this expedition, which was a continuation of the search that began in 1999, was to locate artifacts of the 1924 British expedition. Throughout this effort, Terry LaFrance's personal goal was to climb high and be at the right place at the right time for a shot at the summit. Success for the Mallory and Irvine Research Expedition would be confirmation of whether the British climbers were successful in reaching the summit almost three decades before the currently accepted first successful summit attempt in 1953. For Terry, success would be to climb as high as possible and get down in one piece. Hear his first hand account of the expedition, intertwined with highlights of the history behind the famous northeast ridge.

The Climbing Route: The north ridge route of Everest is one of three ridges that make up the triangular shape of the mountain. First attempted by the British in the 1920s, the first accepted successful climb of the route was by the Chinese in 1975. Today's expeditions typically set up six camps, with two primary camps used as staging areas, Base Camp at 17,000 ft, and Advance Base Camp at 21,000 ft. The technical climbing commences above 21,000 ft where climbers climb to the North Col at 23,000 ft. The col is a low point between Changste, a mountain to the North of Mt. Everest and the north ridge of Everest. From the north col, climbers push up to 25,500 ft or Camp V, then out onto the north face and ultimately to the high camp at approximately 27,000 ft. The air is obviously very thin at these altitudes and climbers have little time to delay before trying for the summit. The climbers move up through a steep section of approximately 800 ft of rock known as the yellow band and onto the northeast ridge. From here, climbers have about one mile to go to the summit. The hardest climbing however lies between the climbers and the summit. Three rock steps varying from approximately 70 ft to 110 ft in height must be surmounted, along with several exposed rock traverses

that reveal 10,000 ft or so of the north face leading to the Rongbuk glacier below. If the summit is attained, there is of course the decent to contend with...

About The Speaker: Terry is a life long resident of New York State, having grown up in Binghamton and Rochester and attending college at SUNY Buffalo. He currently lives in Albany, New York, where by day, he is a civil engineer at the NYS Department of Environmental Conservation. After work however, he often heads to the High Peaks Region of the Adirondacks. Over the past nine years, he's gained a wealth of experience climbing the renowned rock and waterfall ice routes of the North Country and has enjoyed many of its' scenic high peaks. From New York, Terry has ventured out on mountaineering challenges around the world. His travels have included far off places like Ecuador, Scotland, and the Himalayas. His climbing goals have varied, from climbing the 3000 ft wall of El Capitan in Yosemite National Park, to tackling the Cassin Ridge on the south face of Denali, Alaska. Through his journeys, Terry has gained a wealth of experience and has prevailed over fear and self-doubt.

The meeting will take place on Thursday, March 21 at the Genesee Inn, 1060 East Genesee Street, Syracuse, NY. There will be a cocktail hour from 5:30 p.m. to 6:30 p.m. Dinner will be at 6:30 p.m. and our featured speaker, Terry LaFrance, will begin his talk at 7:30 p.m. The cost of dinner is \$17 for members, \$20 for non-members, and \$15 for student members. Please RSVP by Monday, March 18 to Bonnie at Parratt-Wolff via e-mail at bolney@pwinc.com or 437-1429.

Directions: To get to the Genesee Inn, take the Route 690E exit from Route 81S. Take the first exit off of 690 (Teal Avenue) and turn right at the bottom of the off-ramp. Go approximately 1 mile (crossing Erie Boulevard) and turn west (right) onto Genesee Street. The inn is on the south side of the street, between Crouse and University Avenues.

Calendar

Thursday, March 14, 2002	CNYAPG Monthly Dinner Meeting, Genesee Inn, Syracuse, NY. Terry LaFrance, "A Journey to Everest." From 5:30 p.m. to 6:00 p.m. cocktail hour; followed by dinner at 6:30 p.m., and our speaker's talk will begin at 7:30 p.m.
Wednesday, March 20, 2002	BAPG Monthly Dinner Meeting, BAPG Monthly Dinner Meeting. "Eurypterids from the 'Buffalo Pool'" by Dr. Rick Batt, Department of Earth Sciences and Science Education, Buffalo State College. Contact Lea Cervi (e-mail lcervi@ene.com) or call 716-684-8060).
Saturday, April 6, 2002 SPECIAL EVENT! MARK YOUR CALENDARS!	Lackawanna Coal Mine Tour & Anthracite Heritage Museum. CNYAPG will lead a field trip to the Lackawanna Coal Mine. A coach bus will leave Syracuse at 8:00 a.m., arrive in Scranton in time for a picnic lunch (provided), and will arrive back in Syracuse by 6:00 p.m. Call Sarah McCulloch at 607-836-4400 or e-mail sarah@geologic.net with any questions.
Wednesday, April 10, 2002	Geological Society of America's Birdsall-Dreiss lecturer, Dr. Graham Fogg. Details to follow.

OUR PRESIDENT'S VOICE

By Bill Morrow

From Antarctica to Mount Everest, CNYAPG has got you covered! At our February meeting, Dr. Amy Leventer from Colgate University gave about 40 guests a great presentation on her numerous expeditions to Antarctica. Dr. Leventer presented in detail the logistics involved with a 60 day cruise – from how many supplies needed, to the training of the scientific crew, as well as how to play foosball on a rolling ship! We learned a great deal about how to conduct an expedition – but also learned about data collection as it relates to climatological studies. Dr. Leventer and her crew used various types of sampling tools to collect up to 25 meters of a continuous core at one location. This process was then repeated as they circumnavigated about one-third of the Antarctic coastal margin. A team of scientists will study the geochemistry, sedimentology, and paleontology of these cores.

Next month's program features one of the NYSDEC's finest. Mr. Terry LaFrance will present a program on his successful ascent of Mount Everest. This program will be enjoyable for all ages, as well as spouses. We hope that you will not only attend, but also bring a guest! PLEASE note the date of the event. In effort to give folks a little more lead time from when their "Technologist" arrives to the actual meeting date, we have moved March's meeting back a week to March 21st.

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First Annual Salary Survey: Have you ever wondered about how the salary scale of practicing geologists in the Central NY region compares with other areas? Well here is your chance to find out! Our April newsletter will include a one-page members survey concerning: 1) the type of company they work for, 2) company size, 3) primary duties, 4) current title and years of experience, 5) highest academic record, 6) annual salary, and 7) estimated value of "other" compensation. Your responses will be tabulated and presented back to you in our September newsletter. The success of this survey depends on your participation! Please take a few minutes to pull the survey from your April CNYAPG newsletter, fill out, and return it anonymously to us.

The Groundwater Professionals of North Carolina conducted a similar survey a year ago. The median salary from their responses was \$50,000 to \$60,000, and the average "other" compensation was \$7,000.00. It is interesting to note that the group who described themselves as "owners" had both the highest and lowest pay within the responses. This is something to think about for those who are considering establishing their own business!

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A Geologic Approach to Simulation of Subsurface Hydrology
By Dr. Graham Fogg, University of California at Davis

The unknown heterogeneity of the subsurface remains a major obstacle to reliable simulation of subsurface flow and transport processes. Characterization of spatial patterns in properties with typically sparse data requires knowledge of the geologic processes that created the patterns. A geostatistical approach provides a means for quantitative modeling of three-dimensional hydrostratigraphy through the use of commonly available field data as well as geologic fundamentals and knowledge of the depositional processes.

By modeling inter-facies transition probabilities with Markov chains, an intuitive method for building three-dimensional models from basic geologic principles is developed. This geologic/geostatistical technique, implemented with the software TProGS, uses the hard data together with interpretive input on proportions, average lengths, and juxtapositioning of geologic facies to create multiple realizations of heterogeneity. The resulting characterizations honor fundamental probability laws while preserving observed or inferred facies proportions, continuity, asymmetries (e.g., fining upward sequences), and facies relations (e.g., levee adjacent to channel facies). Lateral facies relations, which are typically undersampled, can be modeled based on the observed vertical patterns in facies through the use of Walther's Law. Furthermore, the approach can incorporate nonstationarities such as spatially varying dip angles, or more severe nonstationarity, such as unconformities and transitions between different depositional environments.

Example applications in alluvial fan and fluvial environments depict the resulting hydrostratigraphic models and demonstrate the significance of highly resolved heterogeneity in the simulation of flow and

transport, while providing a fair degree of field validation with hydraulic and groundwater age-date data.

About The Speaker: Dr. Fogg is the Geological Society of America 2001-2002 Birdsall-Dreiss Distinguished Lecturer. He is a professor of Hydrogeology and Hydrogeologist at the University of California at Davis. Dr. Fogg received his B.S. in Hydrology at the University of New Hampshire and completed his graduate studies at the University of Arizona. He received his Ph.D. in Geology from the University of Texas at Austin. His research interests include ground water contaminant transport, ground water basin characterization and management, and numerical modeling of ground water flow and contaminant transport.

The meeting will take place on Wednesday, April 10 at the Genesee Inn, 1060 East Genesee Street, Syracuse, NY. There will be a cocktail hour from 5:30 p.m. to 6:30 p.m. Dinner will be at 6:30 p.m. and our featured speaker, Dr. Fogg, will begin his talk at 7:30 p.m. The cost of dinner is \$17 for members, \$20 for non-members and \$10 for students. Please RSVP by Friday, April 5 to Bonnie at Parratt-Wolff via e-mail at bolney@pwinc.com or 437-1429.

Directions: To get to the Genesee Inn, take the Route 690E exit from Route 81S. Take the first exit off of 690 (Teal Avenue) and turn right at the bottom of the off-ramp. Go approximately 1 mile (crossing Erie Boulevard) and turn west (right) onto Genesee Street. The inn is on the south side of the street, between Crouse and University Avenues.

Calendar

Wednesday, April 17, 2002	BAPG Monthly Dinner Meeting, BAPG Monthly Dinner Meeting. "Treatment Wetlands for Environmental Remediation" PLUS Short Presentations from the Recipients of the BAPG Student Awards. TBA. Contact Lea Cervi (e-mail lcervi@ene.com) or call 716-684-8060.
Saturday, April 6, 2002	CNYAPG field trip to Lackawanna Coal Mine Tour & Anthracite Heritage Museum. A coach bus will leave Syracuse at 8:00 a.m., arrive in Scranton for a picnic lunch (provided), and arrive back in Syracuse by 6:00 p.m. Call Sarah McCulloch at 607-836-4400 or e-mail sarah@geologic.net with any questions.
Wednesday, April 10, 2002	CNYAPG Monthly Dinner Meeting In Conjunction With Syracuse University Department Of Earth Sciences Lecture Series, Genesee Inn, Syracuse, NY. "A Geologic Approach to Simulation of Subsurface Hydrology", By Dr. Graham Fogg. From 5:30 p.m. to 6:30 p.m. cocktail hour; followed by dinner at 6:30 p.m., and our speaker's talk will begin at 7:30 p.m.

OUR PRESIDENT'S VOICE

By Bill Morrow


The 80-20 rule doesn't just apply to your client list! For most of us in business, 80 percent of our revenues come from 20 percent of our clients. If you are a teacher – I would bet that 80 percent of your headaches come from 20 percent of you students. Volunteer organizations like your church, Little League Board, etc. are no different – the work of a few keep the organization running for many!

This is a critical time for CNYAPG. This year's Board of Directors (BOD) has run a variety of successful programs from using isotopes in groundwater investigations to bioterrorism. Meeting attendance has been up, averaging about 45 for our last 6 meetings. Our field trip to the Lackawanna Coal mine was sold out in three weeks! Thanks to you, the members, this has been a great year for CNYAPG. The problem is your BOD is ready to move on to other endeavors! We need committed folks who will take just one year to serve in a leadership position.

Each month these newsletters get harder to write – and I have only been doing this job for one year. It makes me very thankful for folks like Sarah McCulloch, Vita DeMarchi, Dave Palmerton, Meg Harris, Ed Hinchey, Buck Gabriel and Nancy Gensky who took the time to step up to the plate and take a shot as president of this great organization. Over the last 9 years, 32 different professionals have served on CNYAPG's BOD in one capacity or another. With our membership rolls hovering around 120 for the nine years, a few are doing the work for many. If CNYAPG is going to continue as a strong, viable organization, we need the following:

- A committed and active BOD,
- Members who both regularly attend the meetings and provide feedback to the BOD, and
- Regular membership renewals.

As a benefit of service, you get to work closely with some



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great people, have the satisfaction of running some wonderful programs and shaping the organization to fit some of your personal interests. The time required for each position varies from Secretary (about 5 to 6 hours per month) to President (about 4 hours per month). The time commitment for a directorship is typically less than an hour per month. What about you...? Where do you fit into this organization? Is this your year to take a leadership role?

Why is membership renewal important? As of March, over half of the 130 geologist and associate members in our data base have not renewed their memberships for 2002. Your renewal is critical for several reasons:

- The \$25.00 dues permit the organization to run at a break even point each year. The dues cover the publishing of our internal newsletter 3 times a year, our fees for publishing in the Technologist, fees for maintaining our website, liability insurance and programming fees.
- Your renewal also provides us with a mailing list by which we can communicate with you on a regular basis. Although some have followed our activities on the web, most still rely on newsletters.
- The last reason to renew and perhaps most importantly is to show your continued support of the organization. We realize that \$25.00 is \$25.00, but by writing that check you are more likely to get involved and support CNYAPG in a tangible way if you are also making an investment in the group.

If in doubt as to whether your membership is current, please check the mailing label on your last CNYAPG newsletter or contact Lynette Mokry at lm@bbl-inc.com or (315) 446-9120.

Membership Directories - Using Lynette Mokry's data base, Steve Rosello did a great job pulling together a membership directory this winter. The directories are being distributed at the monthly meetings to all members from the year 2001 and to all new members. Make sure you pick one up at the next meeting.

A different CNYAPG sponsor's ad will be posted in each issue of the Technologist. In addition to monthly participation in the Technologist, CNYAPG prepares a September, December, and April newsletter for its members. For more information regarding CNYAPG, please contact Bill Morrow, President (315.437.1429, wmorrow@pwinc.com) or Lynette Mokry, Secretary (315.446.9120, LM@BBL-INC.COM).



**A Tour of Chittenango Falls State Park
By Ms. Diane Wheelock and Dr. Ernest H. Muller**

To take advantage of what will hopefully be glorious spring weather in central New York, our May meeting will be held outdoors at Chittenango Falls State Park. Rich plant and wildlife communities occupy numerous habitats at Chittenango Falls, a geologist's paradise, which was preserved by the wise stewardship of early Central New Yorkers. The main attraction of the park is a breathtaking 167-foot waterfall, created by glacial sculpting over 40 million year-old bedrock. As Chittenango Creek flows north out of Cazenovia Lake, it spills over tiered ledges above the falls and then cascades to the bottom of the 167-foot gorge.

Our talk will begin with Ms. Diane Wheelock, Environmental Educator for Central Region State Parks, providing us with an overview of the park's cultural and natural history as she leads us to areas where we can observe some of the fauna and hopefully birds in migration (Ms. Wheelock says to bring your binoculars because it's a great time to hopefully see many birds). Diane received her M.S. in Environmental Science from SUNY -College of Environmental Science and Forestry and has worked for State Parks for 15 years. Dr. Ernest Muller will then discuss the geology history of the area, or the

"gift of the ice" as he terms it. Dr. Muller was honored at our September 2001 meeting as a Lifetime Honorary Member of the Central New York Association of Professional Geologists. He began his career working with the USGS in Alaska, followed by teaching at Cornell University from 1954-1959 and then Syracuse University from 1959 until his retirement in 1988. He has been a mentor to many of us studying geology in the Syracuse area.

The meeting will take place rain or shine on **Wednesday, May 15 beginning with the talk at 6:00 p.m.** Following the talk, we will have dinner in the pavilion catered by Brooklyn Pickle. The cost of dinner is \$10 for members and \$12 for non-members. Please RSVP by Friday, May 10 to Bonnie at Parratt-Wolff via e-mail at bolney@pwinc.com or 437-1429.

Directions: The park is on Route 13 between Chittenango and Cazenovia. From Syracuse, take Route 5 through Fayetteville to Chittenango, then south on Route 13; or, take Route 92 to Cazenovia, then Route 20 north to Route 13 north. We will meet at the reserved pavilion in the park and the talk will begin promptly at 6 p.m.

Calendar

Wednesday, May 8, 2002	The Hudson-Mohawk Professional Geologists' Association, day-long workshop on "Practical Site Characterization & Remediation Techniques for DNAPLs and their Associated Dissolved Phase Plumes," Presented By: Dr. John H. Guswa of GeoTrans, Inc. and Dr. Bernard Kueper of Queen's University. 8:00 a.m. - 5:00 p.m., Holiday Inn Turf, 205 Wolf Road, Albany, New York. Registration fee - \$130 for members and \$150 for nonmembers (includes lunch). There will be a \$20 late registration fee for registrations received after April 24th. For more information, contact: Laurie Scheuing at 518-373-1200, lescheuing@aol.com ; Bill Kelly at 518-474-7559, wkelly@mail.nysed.gov ; Mike Palleschi at 518-348-6995, mpalleschi@alphageoscience.com or visit our website at http://members.aol.com/hmpga .
Wednesday, May 15, 2002	CNYAPG Monthly Dinner Meeting "A Tour of Chittenango Falls State Park" By Ms. Diane Wheelock and Dr. Ernest H. Muller". The talk will begin at 6 p.m.; followed by dinner catered by the Brooklyn Pickle. Election Ballots Due - please mail completed ballot to CNYAPG by May 14 th or bring it with you to the May 15th, CNYAPG meeting.
June 18 and 19, and 20 and 21, 2002	The Midwest GeoSciences Group invites you to the University of Massachusetts for two exciting 2-day short courses: <i>Improving Hydrogeologic Analysis Of Fractured Bedrock Systems</i> , and <i>Advances In Characterizing Ground Water Movement Through Glacial Sequences</i> . For more information see www.midwestgeo.com



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