

CNYAPG

TSUMANIS IN SYRACUSE?

Presented by

BRYCE HAND, PH.D.
PROFESSOR, SYRACUSE UNIVERSITY
(RETIRED)

“From the time I first met it, in 1969, the most problematic stratigraphic unit in our area has been the Clark Reservation Limestone. This member of the (Lower Devonian) Manlius Formation is commonly described as an oolite (which it is not!). But even when properly characterized as an intraclastic, fossil-fragment-rich grainstone, its position in the section is incomprehensible by normal application of Walther’s ‘Law.’ I will defend the outrageous hypothesis that the Clark Reservation may be the product of tsunamis generated by the impact of a 1-km meteorite at Panther Mountain in the Catskills.” % Dr. Hand

We will convene on Thursday, October 14th, 1999, at the Glen Loch Restaurant in Jamesville, NY. Come start the CNYAPG season and share your summer field work tales!

AGENDA

- 5:30 – 6:00 P.M.:
Directors’ Meeting
- 6:00 – 6:30 P.M.:
Members’ Reception
- 6:30 – 7:30 P.M.:
Dinner
- 7:30 – 8:30 P.M.:
Presentation by Bryce Hand, Ph.D.

Welcome to the 1999-2000 season of CNYAPG. It has been difficult to relinquish such a beautiful summer to the demands of the autumn (much less the shorter, cooler days), thus the delay in getting things rolling with our organization as well. But now we have an intriguing topic for our first meeting. I know my curiosity is certainly piqued by Dr. Bryce Hand’s abstract! We may never walk the trails of Clark Reservation with the same outlook after next Thursday.

So to the membership, we will be together for dinner and discussion on October 14th and I look forward to a most interesting series of speakers and the joining of all of our experience and shared knowledge. Please feel free to give me input on topics, suggestions for speakers, and any other ways that we may be able to make CNYAPG more valuable for the professional geologists in our community.

Buck Gabriel
President “ CNYAPG

OCTOBER 1999

**CENTRAL
NEW YORK
ASSOCIATION OF
PROFESSIONAL
GEOLOGISTS**

CNYAPG

INSIDE:

President's Page	2
Geologic News	2-3
CNYAPG Supporters	
CNYAPG Calendar	4

The November CNYAPG Meeting will be Thursday, November 18, 1999, at the Glen Loch Restaurant, 4626 North Street, Jamesville, NY, 315.469.6969, at 5 PM. Cost: \$15, \$10 with Student I.D. See Calendar for full details. We look forward to seeing all of you.

WHERE IS THE CNYAPG SLIDE PROJECTOR?

If anyone knows the whereabouts of the projector, please contact Vita DeMarchi or Buck Gabriel at 315.475.9204. It disappeared after the April 1999 meeting. Help us locate our equipment.

NASA's Concept Mission for the Human Exploration of Mars: Why, How, and When

Presented by

FRED JAQUIN, PH.D.

**ASSISTANT PROFESSOR, ASTRONOMY AND METEOROLOGY
ONONDAGA COMMUNITY COLLEGE, SYRACUSE, NY**

Previously: a member of the Education staff at the Museum of Science and Technology, a high school physics and earth science teacher at Manlius Pebble Hill School, and Marine Corps Vietnam era veteran, Dr. Fred received his doctorate in 1989 from Cornell University. His thesis carried the lofty title of *The Meteorology and Dynamics of the Martian Middle Atmosphere*.

Come hear Dr. Fred as he explores these considerations:

Philosophical and scientific imperatives for the exploration of Mars, based on the cultural heritage of western society and the physical environment of Mars.

Data from the Viking Missions, Pathfinder Mission, and Mars Global Surveyor to illustrate the unique and enigmatic features of the Martian meteorology, geology, and climatic history. NASA's Mars Reference Mission will be examined with the view of illustrating the complexity and risk of such a mission.

The Moral of the Mars Saga:

The first human to walk on Mars is: (1) a U.S. citizen; (2) alive today; and (3) probably in middle school.

He or she is destined for Mars and has no clue.

Come determine if you are ready for the future! Or is one of your kids destined for Mars?

CNYAPG - NOVEMBER 1999

PRESIDENT'S PAGE

Greetings to the members and happy fall. This is the time when we look back over the year and take stock, as well as look forward to new opportunities. As far as our organization, we have much to anticipate in the upcoming months. There has been tremendous response regarding the speakers for future meetings and I can guarantee you that this will be the best season of presentations yet. Thanks for the input.

Please note that there will be some flexibility in the schedule from the standard second Thursday meeting to accommodate our speakers' agendas and commitments. We will announce the dates well in advance and remember that you can always check the Web site out for announcements and the calendar, as well as a copy of the monthly newsletter in case you misplace yours.

Thanks again to Dr. Bryce Hand for his engaging talk last month and for giving us his fascinating theory of the origin of the Clark Reservation formation to ponder. Dr. Hand's premise is both unique and intriguing. It is a great inspiration to look to those in our field who live by the notion of retiring TO something rather than FROM something.

We will meet for a Holiday Happy Hour in December to share some cheer. We are still looking for a downtown location to schedule that gathering so look for your December newsletter to give you the time and location.

Until then, see you on November 18th at the Glen Loch for Dr. Fred Jaquin and his vision of Mars. And have a happy Thanksgiving!

Buck Gabriel
CNYAPG President

INSTANT REPLAY:

WHERE IS THE CNYAPG SLIDE PROJECTOR?

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Opportunities in Space Abound!

Window on the Universe – Challenger Center for Space Science Education:

How would you like to take your entire community on a journey from spaceship Earth to places unknown? Imagine parents and their children exploring the great frontiers as families. Picture teachers from across your region learning how to bring the universe and human exploration alive in the classroom. Visualize scientists and engineers, gifted at

communicating their passion to kids and adults alike, sharing stories of their own explorations during a unique after school field trip designed for families. Blast off to www.challenger.org/wotf. Or e-mail the Challenger Center at wotu@challenger.org. Last but not the very least, you can call the Center at 816.471.7770, ext. 2211

Liftoff 2000! Return to Mars Workshop: This innovative educational program for educators, sponsored by the Texas Space Grant Consortium and held at the Lunar and Planetary Institute, features presentations by Mars scientists and engineers, tours of NASA and Space Center Houston, hands-on inquiry based classroom activities, free curricula and space science materials, and Internet and e-mail access.

For additional information:
<http://www.tsgu.utexas.edu/>

2000 NASA MEANS BUSINESS Student Competition:

NASA is soliciting proposals from teams of and university students to compete for an opportunity to work with the NASA Exploration Office to draft the first *Mars Exploration Customer Engagement Plan*. The opportunity will include academic scholarship, hands-on experience with NASA scientists and engineers, and education/public outreach activities.

CNYAPG - NOVEMBER 1999

Selected teams will also receive cash rewards of \$1,000, travel grants to Johnson Space Center to present their work, and international recognition for their contributions to NASA's Mars exploration planning effort. An overall Competition Winner will be selected from among the finalist teams.

The 2000 NASA MEANS BUSINESS Student Competition will provide access to up to six student teams to the Mars mission planning activities of the NASA Exploration Office.

Deadlines:

Letters of Intent: 12/3/99
Proposals: 1/14/2000

For details, browse the Web site:
<http://www.tsgc.utexas.edu/nmb> or call Burke Fort, Program Director, 800.248.8742 or 512.471.7225 (in Austin, TX) or Dr. Humboldt C. Mandell, Jr. at 281.483.3977.

LOOKING FOR A CHANGE OF PACE?

Cornell College - Geology/ Environmental Science: Cornell college, a private undergraduate liberal arts college, invites applications for a tenure track appointment in its Department of Geology. Responsibilities include teaching physical geology, geomorphology, environmental geology, hydrogeology, and an upper level specialty course (e.g., geochemistry) The successful candidate will also be expected to develop and teach introductory courses for non-majors, teach structural geology, participate in the College's program in Environmental Studies, and

develop a research program that incorporates undergraduate students. Ability to teach an extended field course desirable.

Appointment at the assistant professor level to begin in the fall of 2000; shared appointment will be considered. Ph.D. required; post-doctoral or college teaching experience preferred.

Cornell College has attracted national attention for its distinctive academic calendar under which faculty teach and students take one course at a time in month-long terms. The College is committed to excellence in teaching and research.

Interdisciplinary interests among the faculty is encouraged. Send a letter of application, curriculum vitae, and three letters of recommendation to: Ms. Ann Opatz, Office of Academic Affairs, Cornell College, 600 First Street West, Mount Vernon, Iowa 52314-1098. Formal consideration of applications begins 12/9/99. Cornell College is an EOA/AA employer and encourages women and minorities to apply.

Is the Desert More to Your Liking?

New Mexico Highlands University is looking for an Assistant Professor of Geology. This tenure track position has a preferred start date of 1/10/2000. Look at the NMHU Web Site: www.nmhu.edu for a view of the school. To apply, submit a letter of application, CV, three recommendations, and a synopsis of: research interests/needs, teaching philosophy, and ideas regarding program building, science education, and thoughts on the meaning of "Environmental Geology." Include copies of transcripts. Send to: Chair, Geology Search Committee, New Mexico Highlands University, P.O. Box 9000, Las Vegas, NM 87701. Screening began on October 1st.

Keep the newsletter input flowing. Send ideas, articles of interest, requests, announcements, and questions for the newsletter to Vita DeMarchi at vdemarchi@secor.com.



A Snippet About the Red Planet

High-resolution images of Mars show that there is no evidence of shorelines that would have surrounded ancient oceans on the red planet, according to research published in the Oct. 1 issue of Geophysical Research Letters.

Images of Mars taken by the Viking missions in the 1970s suggested that giant oceans once covered much of the planet's Northern Hemisphere. The images showed terrain features suggestive of shorelines.

The new images of the same areas, taken by the Mars Global Surveyor in 1998, are five to 10 times sharper than the Viking images and show that none of the areas appear to have been formed by the action of water in a coastal environment. [Copyright 1999, Environmental News Network, All Rights Reserved]

DID YOU NOTICE? WE CAN'T FIND THE CNYAPG SLIDE PROJECTOR?

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Calendar

Wednesday, November 17th

Thursday, November 18th

Thursday, December 16th

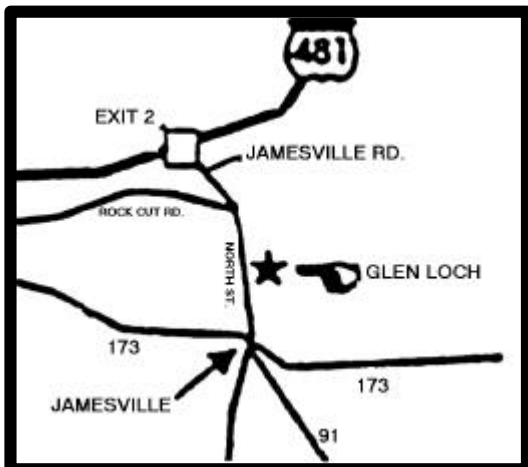
January 2000

February 2000

March 2000

April 2000

May 2000



Hudson Mohawk Professional Geologists Association presents "A Probable Buried Impact Crater Beneath Panther Mountain, Catskill Mountains, NY, and Its Hydrocarbon Potential," by Yngvar W. Isachsen of NYS Geological Survey. For more information, contact Dianne Trianni at 518.783.1805.

CNYAPG meeting at Glen Loch Restaurant, 4626 North Street, Jamesville, NY (315-469-6969). Agenda: 5 – 6:30 Social Hour (cash bar); 6:30 – 7:30 Dinner; 7:30 Dr. Fred speaks on the wonders of Mars! \$16.00, Students with I.D.s \$10.00. Join your colleagues and friends for good conversation, laughter, and further knowledge.

Have a rockin' holiday get-together with your CNYAPG friends for a Happy Hour gathering at a downtown Syracuse location to be determined.

CNYAPG Meeting...Speaker to Be Announced. Watch for your December newsletter

CNYAPG Meeting with Dr. Daniel Nelson, an S.U. professor, will share his cutting-edge research on the Earth's mantle beneath Tibet.

CNYAPG Meeting: Dr. Donald Siegel, S.U. professor, returns to discuss scientific phenomena of Biblical proportion.

CNYAPG Meeting with a presentation to be determined. Watch for announcements on the Web site www.dreamscape.com/cnyapg and in future newsletters.

CNYAPG Meeting hosts a presentation by Dr. David Fastovsky, professor from the University of Rhode Island. We'll convene at the M.O.S.T. for a big talk on the big beasts – dinosaurs.

Kudos to the Contributors!

Buck Gabriel Vita DeMarchi

Nancy Gensky Lynette Mokry

Georgia Popoff

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CNYAGP

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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

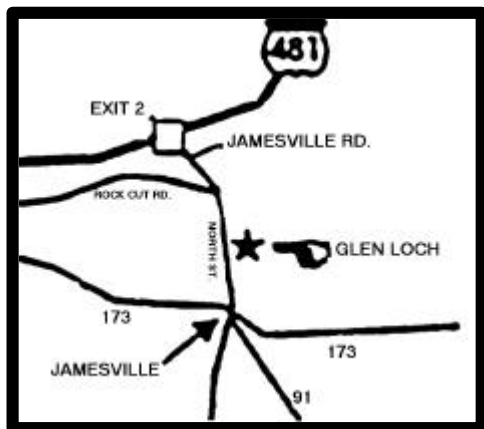
<http://www.dreamscape.com/cnyapg>

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NOTICE:

The April CNYAPG Meeting will be **WEDNESDAY, APRIL 12TH**, at the **Glen Loch Restaurant, 4626 North Street, Jamesville, NY.**

Cost: \$18.00 for members, \$20.00 for non-members, and \$12.00 for students with ID. Join us early for social hour. Dinner starts at 6:30 p.m.



CNYAPG CONTRIBUTORS

BUCK GABRIEL
VITA DEMARCHI
NANCY GENSKY
LYNETTE MOKRY
SARAH MCCULLOGH

CNYAPG

Wetland Geochemistry and Hydrologic Connectivity from an Adirondack Perspective

Dr. Christopher Cirmo
Assistant Professor of Geology
SUNY Cortland

It has been known for some time that wetlands function as sources, sinks, or transformers of chemical constituents. In particular, certain nutrient chemicals, such as nitrogen and sulfur, have cycles that are directly affected by fluctuating redox environments found in saturated zones near streams and within peatlands. Although these effects have been documented for isolated wetlands, the role of individual wetlands on stream water quality, within the context of the watershed, is relatively unstudied. The "hydrologic connectivity" of these wetlands to surface and groundwaters may be switched on and off by alternating layers of materials of varying hydraulic conductivity, to this hydrologic connectivity. These ideas are being explored in a set of experiments and a real-time monitoring program within wetlands and saturated zones of Adirondack Valley bottoms within the Upper Hudson-Mohawk drainage basin.

Dr. Cirmo has extensive experience in the areas of biochemistry and hillslope and wetland hydrology, focusing on the Adirondack Region. He obtained his BS from Utica College, MS from Indiana University, and Ph.D. from Syracuse University. He has been a research assistant at Oak Ridge National Laboratories, an environmental scientist with British Petroleum, and taught community college for 5 years before completing his doctorate. Dr. Cirmo did post-doctoral work at SUNY ESF in watershed hydrology with Jeff McDonnell, and was assistant professor of geology and environmental science at Susquehanna University before taking his current position at SUNY Cortland. Recent work has centered upon the role of near-stream riparian and hyporheic zones on the processing and hydrologic transport of nitrogen and in the use of novel stable isotope ratios to determine hydrologic flowpath and sources and sinks of nitrogen.

OUR PRESIDENT'S SOAP BOX

By
William J. Gabriel



For additional interesting and
informative websites, check out:

<http://www.nyscp.org>
[http://www.dreamscape.com/
cnyapg](http://www.dreamscape.com/cnyapg)

Greetings,

Hard to believe that this month will wrap up our regular monthly meetings at the Glen Loch. Dr. Chris Cirno will provide some insights into the geochemistry of wetlands and hydrologic connections to surface and groundwater. I'm sure the "Consultants" will find this particularly pertaining and informative.

I trust everyone received the flyer describing the DNAPL Seminar scheduled for May 3, 2000. We are quite excited about this event and the registration forms are coming in. I would encourage everyone to attend, however, be aware that we are somewhat limited (by space) to the number of attendees that can be accepted. It's first come first serve, so get your registration forms in as soon as possible. And, by all means, if you haven't received your copy of the flyer, please contact us! We wouldn't want you to miss this opportunity.

Some good news and bad news, first the bad. Unfortunately, due to scheduling problems we are canceling the dinosaur talk at the MOST. The good news is, a private tour of the Paleontological Institute in Ithaca has been arranged for May 13th. This tour will be open to all CNYAPG members and their families, FOR FREE, and will offer an overview of the Institutes "Dinosaur Science Program" followed by a private viewing of their collections. This is truly a unique opportunity! "Hats Off" to Sara McCulloch for making this happen! Sara gets my vote for CNYAPG member of the month, not only for arranging this tour but also for spearheading the DNAPL conference! Good form!

In addition, this month we will appoint several new directors to the board and nominating next year's president. This is a time to consider making a commitment to the ongoing growth and education we all receive from our organization and lending your efforts to the continued "business at hand" for the group. If you can give of your time and energy to benefit CNYAPG by serving as a director, please let me know.

As I look over the past few months, I see how we have had informative and entertaining presenters and the attendance at our monthly meetings has been strong, a trend that has been shown over the past couple of years. It is a good time to meet with colleagues, learn, share conversation, trade tales of woe in the field, and generally spend time with other professionals in our field without the pressure of a deliverable deadline, at least for 3 hours. I am sure that the next season will offer the same stimulating and enriching opportunities for us all.

I look forward to seeing you on April 12th (remember, it is Wednesday this month due to a conflict at the Glen Loch) for Dr. Cirno's talk.

Buck Gabriel
CNYAPG President

CNYAPG - APRIL 2000

Geology News

Jobaria Discovery

Bones of several *Jobaria tiguidensis*, plant-eating dinosaurs, were discovered by the western world in West Africa. The discovery by Dr. Paul Sereno, a University of Chicago paleontologist, included nearly complete skeletons of with *Jobaria* dinosaurs. Although the discover was new to most, local tribesmen knew of the location of the bones for centuries. The tribesmen say the protruding bones and made up stories of a mythical monster, "Jobar," hence the name *Jobaria*. A Tuareg chieftain led Sereno to the Jobar bone yard.

Jobaria belongs to the sauropod dinosaur group distinguished by big chests, long necks and tails, and small heads. Fifteen feet tall, 70 feet long, and weighing 40,000 pounds, *Jobaria* were imposing dinosaurs that could rear up on their hind legs to reach a height of more than 30 feet. The *Jobaria* dinosaurs roamed West Africa approximately 135 million years ago for approximately 30 million years. Their longevity surpasses other known sauropods such as the *Brontosaurus* (now known as *Apatosaurus*) and the *Brachiosaurus*. Reasons for their longevity may include more favorable climate and plant foods in West Africa or fewer predators.

Working since 1990, Sereno has mounted two expeditions in 1995 and 1997 to Niger. Since 1997, Sereno and his team have been cleaning and studying the *Jobaria* skeletons, which will be returned to Niger. The study of African dinosaurs is significant, given that more than 90 percent of what is known about dinosaurs comes from North America and the Gobi Desert in the Northern Hemisphere.

In addition to the *Jobaria* skeletons, Sereno also discovered the remains of *Afrovenator*, a 27-foot long meat-eater; *Suchomimus*, a rare fish-eating dinosaur; and *Nigersaurus*, a sauropod with a duck-shaped bill for a mouth, in Niger. Other Sereno discoveries include 12-foot *Herrerasaurus* and the 25-pound *Eoraptor*, which lived approximately 230 million years ago in Argentina; and the 30-foot *Deltadromeus* and the first skull of the *Carcharadontosaurus* in Morocco. (*Chicago Tribune*, *Chicago Sun Times*, 11/99).

High Prices at the Pump Lead to Senate Hearing

With oil prices at record lows last year, Congress focuses attention on legislation to provide tax incentives for the domestic petroleum industry. Now, with oil prices hovering around \$30 a barrel and price spikes for diesel fuel and home heating oil, congressional focus has shifted to tax relief for consumers and calls for increased domestic production in order to decrease reliance on foreign oil. At a February 24th hearing of the Senate Energy and Natural Resources Committee, the main witnesses, including former Energy Secretary James Schlesinger, argued that US dependence on foreign petroleum puts the country in a predicament when it comes to economic and national security concerns.

Although the witnesses mainly discussed the commodities market, they also noted that the fluctuation in the cost of oil could be dampened by the production of more domestic petroleum. In heated opening statements critical of the Clinton Administration's attitude towards petroleum development, many senators called for new federal policy regarding the production of domestic petroleum. Committee Chairman Frank Murkowski (R-AK) was especially vocal, blaming overly strict environmental policy that has closed many areas of the country to exploration and development as one of the causes of the decrease in national oil productivity. More info can be found at: http://www.agiweb.org/gap/legis106/oil_price_hearing.html

Graduate Assistantships in Areas of National Need (G.A.A.N.N.) Fellowships for Computational Earth Sciences Available for Fall 2000:

The Department of Geological Sciences at Binghamton University is pleased to announce immediate availability of 5 graduate student fellowships funded by the U.S. Department of Education. These multiyear fellowships (approximately \$15K per year) are intended for U.S. citizens pursuing a Ph.D. in any area of computational Earth Sciences. Women and under-represented minorities are particularly encouraged to apply. For the fellowships recipients, the field of concentration could include: hydrogeologic modeling, contaminant transport modeling, tectonic modeling, sedimentary basin modeling, seismology, application of "intelligent" computing techniques, to geoscience modeling, and applied geophysics for field geologic problems. In addition, general tools of research, such as GIS, Matlab, etc., are to be incorporated as a part of their training. Interested students should visit <http://www.geolo.binghamton.edu> Or contact Dr. Francis Wu: wu@sunquakes.geol.binghamton.edu.

More Drought Looming If Rains Do Not Return, USGS Warns

Last summer's drought may move westward this summer as streamflows in many parts of the United States continue below normal. At a press conference, USGS Director Charles G. Groat warned that continued below-normal streamflow and low groundwater levels might signal a return of last summer's drought.

Based on data from the USGS network of more than 7,000 streamgages nationwide, there are some areas of the country, particularly east of the Mississippi River, where streamflows are at record-low flows for this time of year.

"This is the time of year where streamflow conditions should be about normal, but in the eastern half of the country, we're anywhere but that," Groat said. "We should be seeing groundwater recharge taking place now and we're not seeing that either."

There is a slightly different phenomenon occurring from last year's drought. Now, the drought is moving west, clearly into the Appalachians and the southeast, he said. These are the areas that did not receive recharge from last year's busy hurricane season like the eastern seaboard did. USGS scientists are also seeing near record-low streamflows in the Ohio Valley, the center of the Midwest, the Lower Mississippi River Basin, and into the southeast.

Real-time streamflow data is available from the USGS at <http://water.usgs.gov>.



SUPPORT YOUR COUNCIL OF PROFESSIONAL GEOLOGISTS WILLIAM KELLY, PRESIDENT, NYSAPG

Now is the *time* to show your support for the licensure of geologists in New York and the *place* to do it is where the hammer meets the outcrop. The outcrop, in this case, is the legislature and the figurative hammer is your membership in and financial contributions to NYSAPG. Enclosed in this newsletter is your membership form for the Council of Professional Geologists. I urge you to use it. One of the strongest arguments we can make to the legislature is that a large number of geologists support the bill. We prove this with a robust individual membership list. A factor that carries at least equal, if not greater, weight is the number of corporations that show their support by becoming corporate members. If your company has geologists on staff, or uses the services of geologists in your business, consider the corporate membership. Associated with the membership lists, of course, is the money we accrue from recruiting activities. In the legislative arena, lobbyists and lawyers are our advocates and defenders. They do demand to be fed, however. Your financial support is the lifeblood of the licensure movement.

Now, while you have the membership application in your hand, notice the section about "additional donations." Why not add an extra \$5 or \$10 to aid the cause? By the time you read this, the NYSCPG and the NYSSPE will have reached formal agreement on the language of the licensure bill. With this formidable hurdle surmounted, the NYSCPG will be moving rapidly forward towards passage of the bill. We need your support now. If you believe that professional licensure is in the best interest of geologists in New York, please demonstrate that with your membership and financial support.

Calendar

April 5, 2000 - Wednesday

The NFS AWMA Annual Spring Seminar, "Environmental Compliance Strategies for 2000 and Beyond," will once again be held at the Grand Island Holiday Inn, 100 Whitehaven Road, Grand Island, NY. For more information, contact Patrick Martin at Benchmark Environmental Engineering and Science, LLC, at 716.856.0599.

April 12, 2000 - Wednesday

CNYAPG Meeting with Dr. Christopher P. Cirimo, Asst. Professor of Geology, SUNY Cortland, speaking about Wetland Geochemistry and Hydrologic Connectivity from an Adirondack Perspective.

April 19, 2000 - Wednesday

BAPG Monthly meeting, Little White House Restaurant, 5877 Main Street, Williamsville, NY. Mr. Brad Gill (a petroleum geological consultant) will speak on "New York State in Cross Section" or "A look at the Oil and Gas Activity and Multiple Drilling Targets across the State from East to West, Top to Bottom, and Past to Present."

April 19, 2000 - Wednesday

HMPGA Technical Symposium 2000 at 1:00 p.m. in the Earth Tech parking lot, 12 Metro Park Road. Contact Mike Palleschi at 518.783.1805 for information.

April 27, 2000 - Thursday

The Business Council of New York State, Inc. (and local Chamber of Commerce) presents "Environmental Management Systems: A Practical Guide to Getting It Done.: This one-day program is designed to walk you through the basic concepts of an EMS, as well as the basic steps of developing and implementing an EMS for your business. This seminar will also briefly discuss the international standard for EMS, the ISO 14000 standard, as well as the potential benefits and costs of registering your EMS to ISO 14001. Holiday Inn Syracuse/Liverpool, 441 Electronics Parkway, 315.457.1122

May 3, 2000 - Wednesday

CNYAPG and NYSCPG present one-day workshop on "Practical Site Characterization & Remediation Techniques for DNAPLs and Their Associated Dissolved Phase Plumes" by Dr. Jack Guswa, HSI GeoTrans, Harvard, MA, and Dr. Bernie Kueper, Queen's University, Kingston, Canada; with a special presentation on "Enhanced TCE Bioremediation Using Injectible HRC" by Paul Tornatore, Haley & Aldrich of New York, Rochester, New York. Sheraton University Inn, Syracuse, NY. Workshop participants can expect to gain knowledge on the state-of-the-art techniques for investigating and remediating DNAPL sites. Attention will be given to a variety of DNAPL types, and a variety of geological settings, including both unconsolidated deposits such as sands and gravels, clay, and fractured rock. For more information, contact Sarah E. McCulloch at 607.836.4400 (sarah@geologic.net) or Vita DeMarchi at 315.475.9204 (vdemarchi@secor.com) or visit our web site: www.dreamscape.com/cnyapg.

May 3, 2000 - Wednesday

BAPG Seminar, "Enhanced Biodegradation of Organic and Inorganic Contaminants in Groundwater," presented by Don Ochs and colleagues from Regenesys at the Four Seasons Hotel on Walden Avenue, Buffalo. For registration forms, see the BAPG website or contact Carol Yamarino at Ecology and Environment: 716.684.8060.

May 13, 2000 - Saturday

CNYAPG Season Finale for the family at the Paleontological Research Institution, 1259 Trumansburg Road, Ithaca, NY, 607.273.6623. Bring the family for the Dinosaur Science Program, 10:00 - 11:00 a.m., followed by a CNYAPG-only private tour of their collections.

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CNYAPG MISSION STATEMENT

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