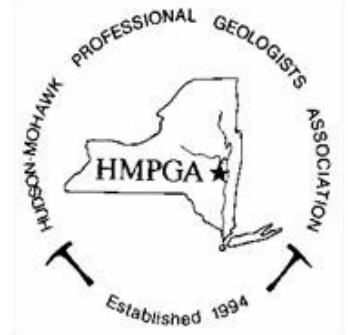


Hudson-Mohawk Professional Geologists' Association

www.hmpga.org



January 19, 2005

The Origin of the Saratoga Springs: Health, History and Maybe Some Horses

Speaker: *Don Siegel, Ph.D.*

Abstract

For over 100 years, scientists have wondered about the geochemical origin of the unusual cold, saline, and highly carbonated Saratoga Springs. The springs were discovered by Native Americans, which have since launched a Baden-Baden spa culture centered on health cures. By the turn of the 19th Century, Saratoga Springs was one of the most famous vacation spots in America. Along with alleged "health cures" from the water, came horse racing, organized crime, and most recently, performing arts and gentrification. In this talk, I will present the results of a new suite of isotopic analyses of spring water, gases, and solutes which show that the exsolving carbon dioxide is clearly mantle in origin, and that the salinity is related to brines typically found in crystalline rocks of the Canadian Shield.

About the Speaker

Don Siegel received his Ph.D. in hydrogeology from the University of Minnesota. In addition to being a professor at Syracuse University since 1982, he is also an Adjunct Professor of SUNY's Departments of Civil and Environmental Engineering and Forest Engineering. Before his academic positions, he worked as a hydrologist/geochemist for the U.S. Geological Survey. His professional interests and work focus include peat land hydrogeology and geochemistry, and contaminant transport in groundwater systems. One of Don's hobbies includes playing competitive chess.

PRESIDENT'S MESSAGE

Inside the January 2005 Newsletter...

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Fellow HMPGAvites:

Happy New Year! I hope the recent month gave you some time to relax. I know that I have enjoyed too much food and drink. How about you? Our January Newsletter provides a nice overview of the New York State Geological Survey, a HMPGA crossword puzzle, important announcements, and a summary of upcoming events for the months of January and February.

As we tend to do this time of year, it is time to reflect on the year gone past and chart resolutions for 2005. HMPGA has made several internal improvements to provide better service to HMPGA members. We have improved our bookkeeping procedures and policies, enhanced the format and timeliness of our Newsletter, increased attendance to our monthly talks and visits to our web site, maintained our existing Corporate Sponsors and Advertisers, added four Corporate Sponsors and Advertisers, maintained a diverse program with high quality speakers, and served as an active voice for issues affecting the professional geologist. In 2005 we will continue to make improvements and inform our members of newsworthy issues and/or events. One primary goal will be to provide assistance in getting the Geologists Licensing Bill through the state legislature.

I encourage you to be active in HMPGA activities, attend various professional meetings, volunteer your time, energy, and experiences and represent your profession.

“Action may not bring happiness but there is no happiness without action.” William James

We will kick-off 2005 with the following presentation by Dr. Don Siegel (Syracuse University):

“The Origin of the Saratoga Springs: Health, History and Maybe Some Horses”

This should be an exciting and well attended discussion. Due to the large number of expected attendees, we are asking you to call early for advance reservations.

A special note of thanks to Ms. Julie Rosenberger, Owner of Groundwater Essentials, Inc., for providing the gift certificates at our Holiday Gathering!



Finest Regards,

A handwritten signature in black ink that reads "Mark A. Williams".

(Mr. Williams is the Manager of Environmental Services for Lansing Engineering, PC)

About Our Meetings:

When: January 19, 2005

Schedule:

Holiday Inn Turf
205 Wolf Road, Colonie

Board Meeting	4pm
Social Hour at <i>"205 at the Turf"</i>	5pm
Dinner	6pm
Program (free)	7pm

Dinner: \$10.00/person for student members
\$20.00/person for members
\$22.00/person for non-members

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

Reservations: Reservations are required for dinner attendance. Call or e-mail Diane Welch at (518) 348-6995 or dwelch@alphageoscience.com by January 12, 2005. Please register even if you are only attending the Program.

Thank you in advance!

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Next Newsletter Deadline:
February 2, 2005

Send MS Word documents via e-mail to mary_millus@urscorp.com

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

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Contact Mark Williams for details at
(518) 899-5243 or via e-mail
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Rates (per issue)

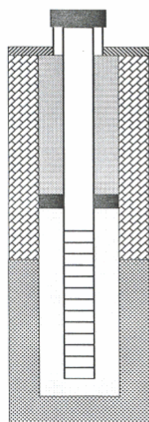
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The Student Fund

Attending the HMPGA Program is a beneficial way for students to learn further about applied geological theories or to hear other interesting topics of research.

Please help student attendance by donating to the Student Fund. HMPGA would like to remind its members to include an extra dinner fee when they register for a HMPGA Program. Monies donated are applied to student fees.

**HELP OUT OUR FUTURE GEOLOGISTS
AND BRING A STUDENT WITH YOU!**



Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7 Capital District Breakfast Club Presentation: “Legislative Topics” Richard Morse, NYS Assembly	8
9	10 Deadline for abstract submission to SMRI for April Conference.	11	12 RSVP to Diane Welch for upcoming HMPGA Meeting!	13	14	15
16	17	18 ESWWDA Annual Meeting The Beeches Inn and Conference Center Rome, NY	19 HMPGA PRESENTATION: “The Origin of the Saratoga Springs: Health, History and Maybe Some Horses” Don Siegel from the Syracuse University at the Holiday Inn Turf, 7pm AWMA NE Section Presents: “Human Health Risk Assessment” Jenifer Heath, Woven Egg Consulting at the Holiday Inn Turf	20	21	22
23 AWWA Symposium January 23-26 Palm Beach Gardens, Florida	24	25	26	27 Dino Film Fest at PRI (Ithaca) 1/27 and 1/29 4pm	28	29
30	31					



Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 Deadline for title submission to LIAPG for April Conference.	2 Deadline for entries submitted to Mary Millus for the February HMPGA Newsletter!	3 NCSE Conference on Forecasting Environmental Changes Washington, DC 2/3-2/4	4 Capital District Breakfast Club Presentation: "Soil Vapor Intrusion" Gary Litwin, NYSDOH	5
6	7 Deadline for registration for the Northeast GSA Annual Meeting in Saratoga Springs	8	9 RSVP to Diane Welch for upcoming HMPGA Meeting!	10	11	12
13	14	15 Deadline for registration to the Midwest GeoSciences Group workshop in Las Vegas, NV	16 HMPGA PRESENTATION: "Effects of Highway Road Salt Application to Bedrock Ground Water Quality" Allan D. Randall (former USGS) at the Holiday Inn Turf , 7pm AWMA NE Section Presents: "Overview of DEC Air Programs" Rob Sliwinski, NYSDEC at the Holiday Inn Turf	17	18	19
20	21	22	23	24	25	26
27	28					

Announcements

- **CAPITAL DISTRICT BREAKFAST CLUB**

Topic: "Legislative Topics"
Speaker: Richard Morse, Executive Director, Legislative Commission on Solid Waste Management, NYS Assembly and Darren Suarez, Program Associate for the Majority NYS Senate
Date and Time: **Friday, January 7, 2005 at 7:30am**
Location: Holiday Inn Turf, 205 Wolf Road, Colonie
Cost: \$12.00, payable at the door. Make checks payable to YOUNG, SOMMER...LLC. To help us plan, please make a reservation. The registration fee will be \$14.00 for walk-ins. The binder update (optional) is \$5.00 per copy.
RSVP: bpopolizio@youngsommer.com by January 3, 2005.

Check out the Capital District Environmental Breakfast Club website:
www.youngsommer.com/CM/Custom/TOCEnvironmentalBreakfastClub.asp

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Announcements Cont...

- **SOLUTION MINING RESEARCH INSTITUTE CALL FOR PAPERS:
Preliminary Conference Announcement**

E-mail title and 200-500 word abstract to Roger Blair (blair@pbworld.com) by **January 10, 2005**.
Check out the SMRI website at: www.solutionmining.org

Topics include:

- Geology and mineralogy
- Geochemistry
- Rock mechanics and subsidence
- Cavern and well design construction and operation
- Surface facility design, construction and operation
- Computer modeling
- Storage of oil, gas, other hydrocarbons, and compressed air
- Final plugging and abandonment
- Salt, potash, soda ash
- Wireline logging and geophysics
- Surface and underground measurements
- New technologies

Conference Date: April 17-20, 2005

Location: Radisson Marx Hotel & Conference Center in Syracuse, New York

- **EMPIRE STATE WATER WELL DRILLER'S ASSOCIATION (ESWWDA)
ANNUAL MEETING WITH TABLETOP DISPLAYS**

Date: **January 18-19, 2005**
Where: The Beeches Inn and Conference Center, Rome, NY
RSVP: Ed or Carol Bates
c/o Lee Bates and Sons Well Drilling
900 North James Street in Rome, NY
Phone: (315) 337-2560 Fax: (315) 336-4075

Check out the ESWWDA Website: www.nywelldriller.org

- **Buffalo Association of Professional Geologists (BAPG) PRESENTS:
"The Schoharie Creek Bridge Collapse"**

Speaker: Richard Bovee, P.E., of Clough, Harbour and Associates

Date: **January 19, 2005**

Where: Sheraton Four Points
2040 Walden Avenue (Thruway Exit 52)
Cheektowaga, NY 14225

Time: 6:00 PM: Social Hour/Cash Bar (in the meeting room)

6:45 PM: Sit-down Dinner with Program to follow

Cost and RSVP: \$20/Members; \$23.00/Non-Members; \$10.00/Students

Contact Jill Howell at 716-655-8842, or jhowell@tvga.com

Announcements Cont...

- **AIR AND WASTE MANAGEMENT ASSOCIATION (AWMA) NORTHEAST SECTION:**

Topic: "Human Health Risk Assessment - A Frame Work and Update"
Speaker: Jenifer Heath of Woven Egg Consulting
Date and Time: **January 19, 2005 at Noon**
Location: The Holiday Inn Turf, Colonie, NY
RSVP: **AWMA by January 7, 2005**
c/o Dan Reilly
C.T. Male Associates, P.C.
P.O. Box 727
Latham, NY 12110
Phone: (518) 786-7625
Cost: \$20.00/AWMA Members; \$30.00/All Others (cost includes a membership)

- **AMERICAN WATER WORKS ASSOCIATION (AWWA)
Source Water Protection Symposium**

Date and Time: **January 23-26, 2005**
Where: Palm Beach Gardens Marriott Hotel, Palm Beach Gardens, Florida
RSVP: Register on-line at www.awwa.org
AWWA's Customer Service Group
6666 West Quincy Avenue
Denver, CO 80235-3098
(303) 347-0804

- **DINOSAUR FILM FEST COLLABORATED EVENT:
Co-Hosted by the Paleontological Research Institute (PRI)**

Date and Time: **January 27, 2005 and January 29, 2005** at 4pm
Host: Museum of the Earth and *Light in Winter*
Phone: Call the Paleontological Research Institute at (607) 273-6623
Check out the Light in Winter website for details: www.lightinwinter.com



**Be sure to try the HMPGA GEO CROSSWORD PUZZLE!
Answers will be posted in February's newsletter!**

Announcements Cont...

- **LONG ISLAND ASSOCIATION OF PROFESSIONAL GEOLOGISTS CALL FOR PAPERS
12th Conference on “Geology of Long Island and Metropolitan New York”**

E-mail title, author, affiliation, address, e-mail and telephone number to Gilbert Hanson (gilbert.hanson@sunysb.edu) by **February 1, 2005**.

Topics include:

- Geology
- Earth Science Education Programs
- Glacial Geology
- Stratigraphy
- Sedimentology
- Coastal Geology
- Applied Geology
- Environmental Geology
- Engineering Geology
- Hydrology
- Bedrock Studies Emphasizing the Geology of Long Island and Metro NY

Major goals are to inform participants of ongoing research, to promote further research and collaboration among researchers, to define important areas where research is needed, and to encourage further research on Long Island and in Metropolitan New York.

Check out the Long Island Geologists website:

<http://pbisotopes.ess.sunysb.edu/lig/Conferences/abstracts05/call-for-papers-05.htm>

Conference Date: April 16, 2005
Location: SUNY Stony Brook

- **5th NATIONAL CONFERENCE ON SCIENCE, POLICY AND ENVIRONMENT: FORCASTING ENVIRONMENTAL CHANGES**

Sponsored by the National Council for Science and the Environment

Date: **February 3-4, 2005**
Location: Ronald Reagan Building and International Trade Center
Washington, DC
RSVP: Mary Shockley
Phone: (202) 530-5810
E-mail: mshockley@NCSEonline.org

General questions can be directed to: conference2005@NCSEonline.org

Check out the website: www.ncseonline.org/NCSEconference/2005conference

Announcements Cont...

- **THE GEOLOGICAL SOCIETY OF AMERICA (GSA) NE SECTIONAL MEETING
40th Annual Meeting** in Saratoga Springs, New York

Registration rates increase after February 7, 2005!

Conference Date:

March 14-16, 2005 • Prime Hotel and Conference Center • Saratoga Springs, New York

Check out details on their website: www.geosociety.org/sectdiv/northe/05nemtg.htm

- **THE MIDWEST GEOSCIENCES GROUP WORKSHOP:
Improving Hydrogeologic Analysis of Fractured Bedrock Systems with a Field Trip inside
YUCCA MOUNTAIN on the Nevada Test Site**

Date: **March 8-10, 2005**

Location: University of Nevada, Las Vegas
U.S. Department of Energy Test Site

Cost: \$1,295 (**before February 15, 2005**)

RSVP: Midwest GeoSciences Group
6771 County Road 8 SW
Waverly, Minnesota 55390
Fax: 763.658.1539
www.midwestgeo.com

Help Wanted at Siena College:

Siena College will have an opening to teach one introductory earth science class for the Spring 2005 semester. The course is designed primarily for students not majoring in the sciences; about 30 students are expected for the class.

Requirements: A Master's degree is required, and we would prefer either additional education or extensive work experience in relevant areas.

Contact: Interested individuals should contact **Dr. James Booker**, Environmental Studies Program Director at (518) 783-2929, or by email at jbooker@siena.edu.

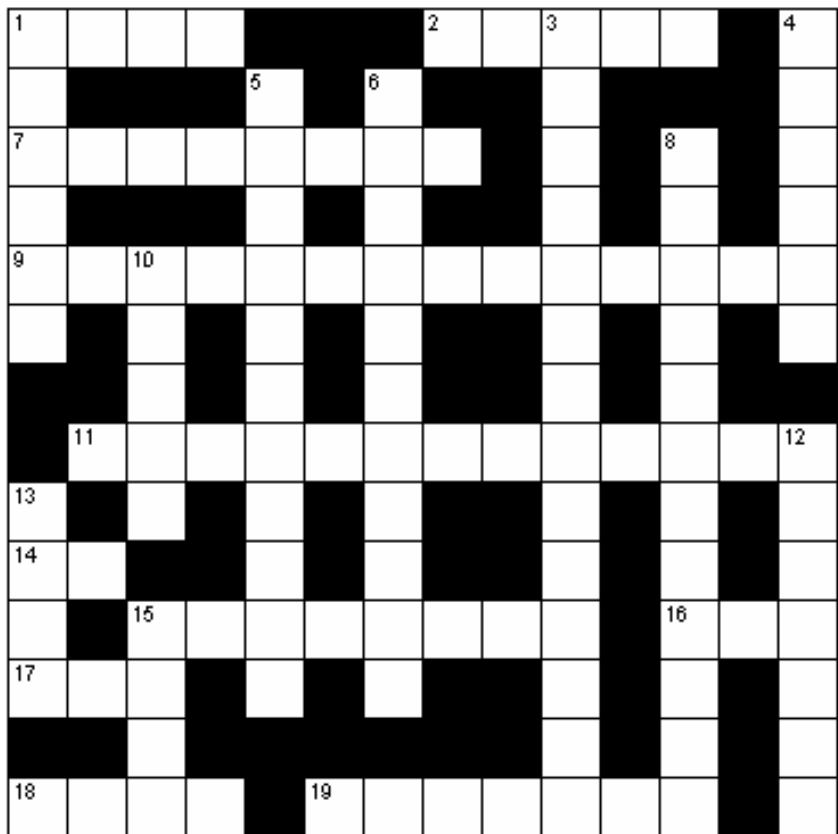
GEO CROSSWORD PUZZLE

ACROSS

1. Boundary betwixt the earth's crust and mantle
2. Gemstone: $Al_2SiO_4(F,OH)_2$
7. A region which is characteristically frost-free
9. An extrusive rock with sodic plagioclase, alkali feldspar and one or more mafic minerals; found along the Colorado River Trough for example
11. Column of gases, ash and rock fragments rising from a crater or other event
14. Lava flows with rough, angular surfaces
15. A great circle on the surface of the earth
16. A precious stone
17. Geologic-time unit
18. A transition form between snow and glacial ice
19. A series of unmanned satellites orbiting above the earth's surface

DOWN

1. To undergo significant and basic alteration
3. The theory that the earth is broken into fragments
4. Low-lying land bound by higher ground
5. The solid portion of the earth
6. The Hawaiian Islands are a classic example
8. Scientist who studies earthquake waves
10. A signal that warns or alerts
12. It is the hardest natural substance known
13. An engagement; an appointment, for example
15. A volcanic crater produced by an explosion, often containing a lake, pond or marsh



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