

# Atlanta Geological Society Newsletter

Next meeting of the Atlanta Geological Society is  
February 22, 2011  
Fernbank Museum of Natural History (Clifton Road)  
Social begins at 6:30 pm – Meeting begins at 7:00 pm

February 2011

## ODDS AND ENDS

Ben Bentkowski, Newsletter Editor

I would like to thank Chris Bean for introducing me to an acronym unfamiliar to me; STEM. It stands for science, technology, engineering and mathematics. But I think it really stands for the larger issue of personal and national success by learning and then working in science, technology engineering and mathematics.

A STEM summit for girls will be held on May 21, on the campus of Georgia Tech, and is being organized by US Dept of Labor, Girl Scouts, KoolGirls, Girls, Inc. and the YWCA. They have a number of workshops planned but are looking for more professional women in STEM fields who can do workshops that connect kids to real careers. Why shouldn't geology be represented? Any of our women geoscientists who would like to participate can Ms. Paulette Lewis, Regional Administrator of Women's Bureau, US Dept of Labor, Region IV, lewis.paulette@dol.gov or 404 562 2340. Please see Chris at the meeting for more details.

As for me, I will be having surgery on my accelerator foot and will not be able to get out to things like the AGS meetings for a bit. But, since I don't type with my feet, the newsletters will continue.

## The February Meeting

Join us Tuesday, January, 2011 at the Fernbank Museum of Natural History, 760 Clifton Road NE, Atlanta GA. The pre meeting social starts at 6:30 pm and the meeting will start at 7 p.m. The speakers for the evening will be Mark Patterson & Rob Kelly of EcoVac Services will speak on "Innovative Techniques for the Rapid In-Situ Remediation of Groundwater Impacted with Fuels, Solvents, and other VOCs."



### INNOVATIVE REMEDIAL SOLUTIONS

Our sponsor for the evening will be GEO LAB Probing Services, Inc. Please look for details about this company elsewhere in the newsletter





*An environmental subsurface investigation and remediation company*

## Geo Lab Probing Services, Inc.

“A Woman-Owned Small Business”

Geo Lab is a reputable, customer focused Drilling, Probing, and Remediation Company providing services across the Southeastern United States (AL, FL, GA, MS, NC, SC, TN). We offer our clients a range of services including Environmental and Geotechnical sampling of soil, vapor and groundwater using Direct-Push Technology (DPT) and Hollow-Stem Auger (HSA) systems. Additionally, we provide a range of well installation services using DPT, HSA, DTH Air-Hammer drilling, and Rock Coring technologies for the installation of piezometers, monitoring, remediation system, and injections wells.

### **Direct-Push Technology (DPT)/Geoprobe**

We deploy state of the art equipment to provide a reliable and consistent service to our clientele. All DPT rigs deployed by Geo Lab are manufactured by Geoprobe Systems, the industry leader in DPT equipment. Our versatility allows us to deploy either truck or track-mounted rigs as requested and to convert from DPT to HSA drilling without remobilization using ‘dual-capability’ rigs.

### **Rotary/Auger Rigs & Services**

We also deploy full-sized CME-55 HSA/Air-Hammer rigs that are utilized on both Environmental and Geotechnical projects. The range of successful well installation projects include Type II and Type III Monitoring wells, Piezometers, SVE wells, Sparge wells, Injection wells, and more.

### **Remediation Injection Equipment & Services**

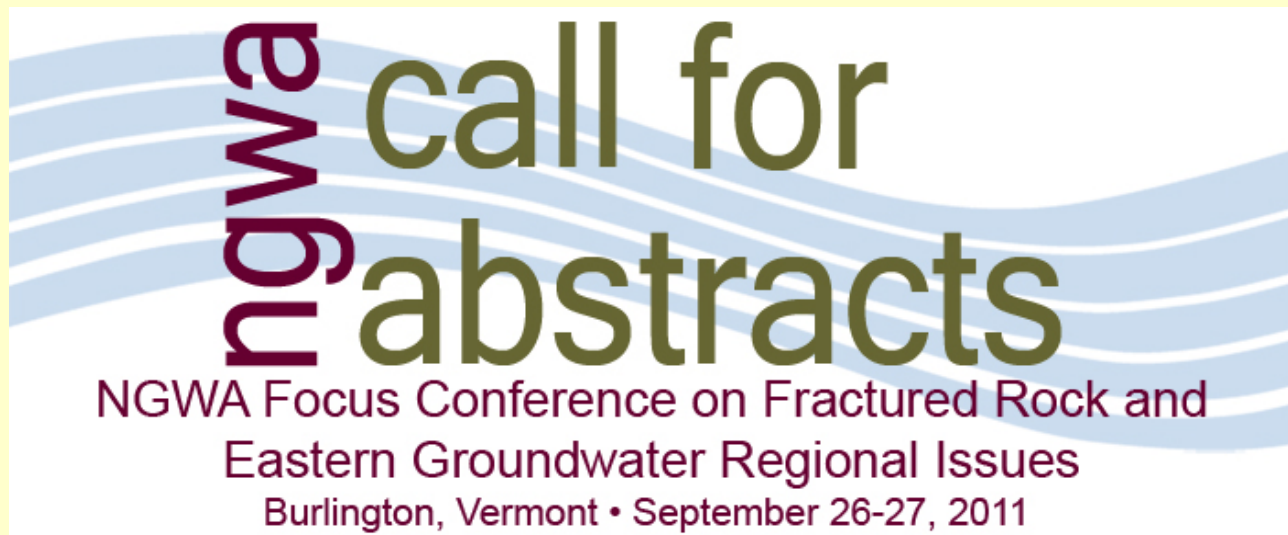
Our extensive experience with In-Situ Remediation Injection involves the subsurface application of numerous chemical and biological products to reduce contaminant levels by means of Chemical Oxidation, Reductive Dechlorination, and/or Bioremediation. We can provide some assistance with a design approach but our specialization is in design implementation.

Geo Lab, Inc.  
PO Box 1169  
Dacula, GA 30019  
Phone: (770) 868-5407  
Fax: (770) 868-5407  
[www.geolab.org](http://www.geolab.org)

For further information, contact Michael Brown, President,  
Joe Grantham, Operations Manager, or Brian Strickland, V.P.

Classification:	Woman-owned Small Business
Licenses/Registrations:	GA, AL, SC, and NC Drilling Licenses
Years of Experience:	Over 30 years of combined experience with on site investigation and analysis.

This conference may be of interest to AGS members. *Ed.*



#### **Conference description**

Fractured rock is one of the most challenging geologic environments to characterize and remediate. Fractured rock aquifers also serve as the primary source of groundwater for many areas of the world. Evolving science and developing technologies provide us with a better understanding of the physical and chemical nature of the systems, as well as the fate and transport of both natural and anthropogenic contaminants. Read more.

#### **Abstracts are being sought on topics such as the following:**

Hydrogeologic impacts of Marcellus Shale development — natural gas deposits in tight rocks  
 Sedimentary rock environments  
 Fate and transport of radionuclides in karst and carbonate rocks  
 Enhanced bioremediation of DNAPL in fractured rock  
 Surface water/groundwater interaction  
 Fate and transport of complex hydrocarbons in groundwater  
 Geophysical measurements in fractured rock settings  
 MTBE and perchlorate remediation  
 Water supply alternatives and policy  
 Advances in groundwater exploration  
 Perceived and real impacts of carbon sequestration  
 Hydrostratigraphy of crystalline rock aquifers.

Those who wish to submit an abstract for the event may do so by checking on-line at the NGWA website; [www.NGWA.org](http://www.NGWA.org) The deadline for abstract submissions is March 11, 2011. Manuscript deadline: July 18, 2011.

### **AGS Members...The Professional Registration Committee Needs YOU...**

If you are an AGS member and would like to contribute to the Professional Registration Committee by leading a lecture on one of the subjects listed below, then please contact me either by e-mail or at the monthly AGS meetings. The lecture should be for one hour followed by a Q&A session. We need different speakers for each workshop. Your volunteering to teach on one of these subjects is essential to the success of the Professional Registration Committee – we need more widespread participation by the AGS membership. Speakers can be compensated for expenses and will receive certificates to acknowledge their participation.

The following content domains are covered in the Georgia Professional Geologist exams:

- |   |   |
|---|---|
| A. General Geology  | B. Mineralogy, Petrology, & Petrography   |
| C. Sedimentology, Stratigraphy, & Paleontology              | D. Economic Geology & Energy Resources    |
| E. Structure, Tectonics, & Seismology                       | F. Hydrology & Environmental Geochemistry |
| G. Engineering Geology                                      |   |
| H. Quaternary Geology, Geomorphology, & Surficial Processes |   |

We do not "teach the test" our aim is to review fundamental concepts of the earth sciences and acquaint candidates with industry specific information not easily obtainable from the literature. Please inform anyone who might be interested in becoming a professional geologist of our workshop. Please consider joining us even if you are not a P.G. candidate. The workshops are interesting and informative.

Ken Simonton, P.G., Chair  
Professional Registration Committee

[www.atlantageologicalsociety.org](http://www.atlantageologicalsociety.org)

The next **Atlanta Geological Society PG Candidate Workshop** will feature a presentation on groundwater hydrology by Jim Kennedy, Ph. D., the State Geologist. Dr. Kennedy holds B.S. and M.S. degrees in physics and geophysical sciences from Georgia Institute of Technology and a Ph.D. in geology from Texas A&M University. Geohydrology is a very important subject and is one of the major domains of the exams. The workshop will be held Saturday, February 26, 2011 from 10:00 am to 12:00 pm at the Fernbank Science Center located at 156 Heaton Park Drive, Decatur, Ga. The class will be held in the Classroom Annex behind the main building near the forest gate

Please forward this announcement to anyone that might be interested. Everyone is invited to attend; membership in the Atlanta Geological Society is not required, though everyone with an interest in geology is invited to join. Two Professional Development Hours will be offered for attendance. If you have questions or need more information, please contact me at [kws876@yahoo.com](mailto:kws876@yahoo.com), or visit our website: <http://www.atlantageologicalsociety.org>. See you there!

Ken Simonton, P.G.  
Career Development/Professional Registration Committee  
Atlanta Geological Society  
[kws876@gmail.com](mailto:kws876@gmail.com)



From <http://www.boingboing.net/2011/01/31/shinmoedake-erupts-1.html>

Lightning dances in Shinmoedake's volcanic plume, the eruption having already led Japanese authorities to call on those living nearby to evacuate. Seen from Kirishima city, the light shows last only for a few moments, but the ash and rocks fall relentlessly between the prefectures of Miyazaki and Kagoshima. One of Kirishima's many calderas, Shinmoedake is 4,662 feet tall. More than 1,000 people living in southern Japan have been urged to evacuate, according to local officials, but no injuries have been reported. Photo: Reuters/Kyodo





# FERNBANK MUSEUM

of NATURAL HISTORY

## Fernbank Museum of Natural History

### Upcoming Public Programs and Events

(All programs require reservations, including free programs)

#### LOCATION:

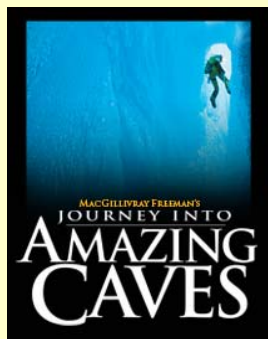
767 Clifton Rd, NE Atlanta, GA

404-929-6400 For tickets and details on exhibits, films, and events, please visit our website at [www.fernbankmuseum.org](http://www.fernbankmuseum.org)

Follow us on Facebook or Twitter for the latest news and updates!

#### On Exhibit:

- *Entrance Plaza, featuring a family of Lophorhothon dinosaurs*
- *Martinis and IMAX: Friday evenings, 5:30 p.m. – 10 p.m. **Amazing Caves and The Greatest Places***

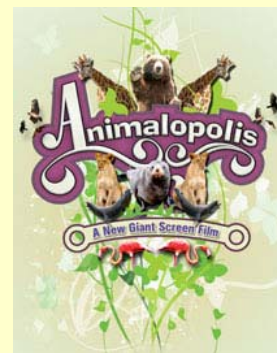
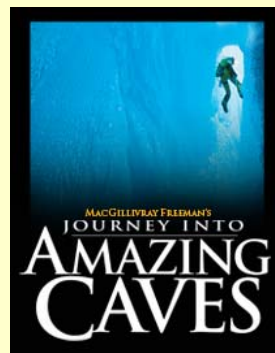


### Now Showing in the Fernbank IMAX movie theater:

(Check our website for special screenings)

#### Current Daytime Schedule:

- **Amazing Caves**
- **Animalopolis**



**Martinis & IMAX®** is presented at the Fernbank Museum of Natural History every Friday evening, January through November; from 5:30 p.m. to 10 p.m. Enjoy no cover charge when you visit us between 5:30 p.m. to 6:30 p.m. This event includes a wine bar, where featured wines can be purchased by the glass and by the bottle. Dinner is also served in the Dining Room, where smaller parties can order chef-prepared dishes-from gourmet pizzas to prime entrées-and dine together in a more intimate and sophisticated setting. Desserts and coffee are available as well.

As always, a full cash bar is offered in the Great Hall where patrons can enjoy a lively atmosphere and musical performances by some of Atlanta's best jazz artists. Bands perform live from 6:30 p.m. to 10 p.m. IMAX® film tickets are \$10. For those who wish to enjoy the atmosphere of Martinis & IMAX® without attending a film presentation, there is a \$5 cover charge after 6:30 p.m. The cover charge is waived for members and patrons who purchase an IMAX® ticket. To purchase tickets in advance, call 404.929.6400.

## Fernbank Museum of Natural History

767 Clifton Rd, NE Atlanta, GA 404-929-6400

### Special Exhibits On View:

- *DeSoto's Footsteps: New Archaeological Evidence in Georgia* (through March 2011)
- [\*Mythic Creatures: Dragons, Unicorns and Mermaids\*](#)  
Opens February 19, 2011
- **Seascapes: Photography of Sandra Gottlieb** (Through August 7, 2011)

### *Storytelling with Rob Cleveland*

Select Saturdays, March 12, April 9 and May 14 at noon. Join us in the Naturalist Center for exciting tales about the natural world with Rob Cleveland, Fernbank's storyteller-in-residence. This program is suitable for children ages 3 and up.

Cost: Included with Museum admission. Free for members.

### ***Fernbank NatureQuest Weekend***

A Grand Opening Celebration

Saturday, March 19 from 10 a.m. to 2 p.m. and Sunday, March 20 from noon to 4 p.m. Let the adventure—and the celebrations—begin! After you tour this totally-new experience, join us for a variety of family-fun activities including games, hands-on activities and more. Cost: Included with Museum admission. Free for members.

### ***Dinosaur Egg Hunt***

Saturday, April 23

Presented in partnership with Radio Disney Fernbank's *Dinosaur Egg Hunt* is returning with expanded egg hunt times, additional giveaways, games, and more. You'll need a bigger basket. Details to be announced soon. Cost: Included with Museum admission. Free for members.

### **Summer Camp 2011**

Give your child a summer of adventure and discovery! Week-long sessions for **rising Kindergarten through 2nd grade students** are available. Educators will guide campers on an exploration of the scientific world during a fun-filled week of activities, crafts, games.

## AGS Officers

**President:** Nils Thompson  
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## AGS 2011 Meeting Dates

Listed below are the planned meeting dates for 2011. Please mark your calendar and make plans to attend.

February 22 Mark Paterson and Rob Kelly of Ecovac Services

March 29 TBD

April 27 TBD

May 31 TBD

June 28 Annual Social and IMAX Movie

August 30 TBD



**CALENDAR OF UPCOMING GEOLOGICAL ORGANIZATIONS' EVENTS****February**

- 22 AGS lecture (6:30-8:30 at the Fernbank Museum). Mark Peterson, Rob Kelly, Ecovac Services  
26 AGS PG workshop (10:00-12:00 at the Fernbank Science Center). Dr. Kennedy, GW hydrology  
28 ASCE Carl E. Kindsvarter Symposium lecture (8:00-5:00 at Georgia Tech GTRI Conference Center). Climate Change: How Science and Policy Affect Engineering Management and Design.

**March**

- 17 SME lecture (6:30-8:30 at GC&SU). Alex Glover, Active Minerals – Atta What! Southwest Georgia & Northwest Florida Attapulgite District Clay: Exploration and Utilization.  
23-25 GSA annual section meeting.  
25 GGWA lecture (12:00-1:00 at the GAWP office). TBA.  
26 AGS PG workshop (10:00-12:00 at the Fernbank Science Center). Ben Black.  
29 AEG/AGS combined meeting (6:30-8:30 at the Fernbank Museum). Jahns Distinguished Lecturer Bill Hanneberg speaking on either of the following– The Landslide That Ate Laprak, Livin' La Vida LiDAR, I Left My Probability Density Function in San Francisco, Making the Most of Airborne LiDAR for Engineering Geologic Applications, or 3-D Rock Slope Modeling and Virtual Discontinuity Mapping Using Digital Photogrammetry.

**April**

- 6 Clemson Hydrogeology Program field trip. Scott Brame, et al. – Chattooga River Geomorphology.  
7 David S. Snipes/Clemson Hydrogeology Symposium (Clemson University Madren Center).  
8 Clemson Hydrogeology Program field trip. Scott Brame, et al. – Chattooga River Geomorphology.  
11-13 Georgia Water Resources Conference (GAWRC) biennial conference (UGA Georgia Center). Sustaining Georgia's Water Resources.  
19-20 AIPG conference (KSU Continuing Education Bldg.). Innovative Environmental Assessment and Remediation Technology.  
26 AGS annual poster session following GSA and GAWRC (6:30-8:30 at the Fernbank Museum).  
30 AGS PG workshop (10:00-12:00 at the Fernbank Science Center). TBA.

**May**

- 6 Clemson Hydrogeology Program field trip. Scott Brame, et al. – Chattooga River Geomorphology. (no, it's not a duplicate) <http://www.clemson.edu/ces/hydro/symposium/fldtrp.html>  
19 SME lecture (6:30-8:30 at GC&SU). Cesar Basilio, Thiele Kaolin – New Developments in the Kaolin Industry.  
21 STEP Summit at Georgia Tech.  
20 GGWA lecture (12:00-1:00 at the GAWP office). TBA.  
28 AGS PG workshop (10:00-12:00 at the Fernbank Science Center). TBA.  
31 AGS lecture (6:30-8:30 at the Fernbank Museum). TBA.

**June**

- 25 AGS PG workshop (10:00-12:00 at the Fernbank Science Center). TBA.  
28 AGS annual social and IMAX movie (6:30-8:30 at the Fernbank Museum).

## CALENDAR OF UPCOMING GEOLOGICAL ORGANIZATIONS' EVENTS

### July

- 22 GGWA lecture (12:00-1:00 at the GAWP office). TBA.  
 30 AGS PG workshop (10:00-12:00 at the Fernbank Science Center). TBA.

### August

- 11 SME lecture (6:30-8:30 at GC&SU). Krumb Distinguished Lecturer David Armstrong, Montana Tech – Different Techniques for Classifying Mineral Resources.  
 24-26 Georgia Environmental Conference (GEC) annual conference (Hyatt Regency, Savannah).  
 27 AGS PG workshop (10:00-12:00 at the Fernbank Science Center). TBA.  
 30 AGS lecture (6:30-8:30 at the Fernbank Museum). TBA.

### September

- 20 AGS lecture (6:30-8:30 at the Fernbank Museum). TBA (could be prep for GGS field trip).  
 23 GGWA lecture (12:00-1:00 at the GAWP office). TBA.

### October

- 7-9 GGS field trip. TBA (could be Fred Rich, Georgia Southern – Coastal Georgia)  
 20 SME lecture/webinar (6:30-8:30 at GC&SU or webinar). John Murphy, 2011 SME President – Seeking Opportunities for Dialogue with SME Sections.  
 25 AGS lecture (6:30-8:30 at the Fernbank Museum). TBA.

### November

- 18 GGWA lecture (12:00-1:00 at the GAWP office). TBA.  
 29 AGS lecture (6:30-8:30 at the Fernbank Museum). TBA.

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## FROM Ken Simonton RE: The P.G. Study Class Dates

The scheduling person at the Science Center, Audrey Poole, has confirmed the following dates and rooms for the PG Classes in 2011:

DATE	VENUE	SPEAKER
Feb 26	Bird Room	Jim Kennedy
Mar 26	Human Development Rm	Ben Black
Apr 30	Bird Room	
May 28	Bird Room	
Jun 25	Bird Room	
Jul 30	Bird Room	
Aug 27	Bird Room	

## Join the Atlanta Geological Society

### Membership Application/Information Update Form

Annual membership dues for the Atlanta Geological Society are \$25 for professional membership, \$10 for students, and \$100 for corporate sponsorship (which includes up to 4 professional memberships). For further details, contact the AGS Treasurer:

Stacy Durden-Phillips  
 Phone: 678-594-9893. ext 205  
 Email: Stacy.Durden@lbgatlanta.com

**Make checks payable to the "Atlanta Geological Society" and remit with the completed form to:**

**Atlanta Geological Society**  
 Stacy Durden-Phillips, Treasurer  
 1925 Vaughn Road NW, Suite 100  
 Kennesaw, GA 30144-4560

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Phone: (Work) \_\_\_\_\_ (Home) \_\_\_\_\_ (Cell) \_\_\_\_\_

Fax: \_\_\_\_\_

Email 1: \_\_\_\_\_

Email 2: \_\_\_\_\_

Ready to Serve the Society?

Remember that although we have officers and various standing committees, it is ultimately the membership that keeps the Atlanta Geological Society active and growing. We have a world of experience within our membership. Please consider volunteering. Your Atlanta Geological Society needs you.