

# Atlanta Geological Society Newsletter

Next meeting of the Atlanta Geological Society is  
June 29, 2010

Fernbank Museum of Natural History (Clifton Road)  
Social begins at 6:30 pm – Meeting begins at 7:00 pm

June 2010

## YOU'RE INVITED AGS JUNE SOCIAL

I'd like to encourage all of my fellow AGS Members and their families to attend our annual social, which is scheduled for 6:30 on Tuesday, June 29th at Fernbank. We've planned a wonderful BBQ dinner and the IMAX movie "Bugs: A Rainforest Adventure." Please make an effort to stop by, enjoy some camaraderie with your fellow geologists, perhaps win a door prize, and enjoy the movie.

We could use some assistance. First of all, be sure to pay your Membership dues (\$25 for a Professional Membership and \$10 for a Student Membership) so that you may attend the June Social.

Second, contact Tom Watson of the Hospitality Committee (678/358-6943 or [twatson@mindspring.com](mailto:twatson@mindspring.com)) to pledge whatever interesting door prizes you can scrounge from your employers, local department store, or perhaps from your own stock of geological goodies. The AGS will give the donors abundant credit. Last year we gave away many wonderful prizes and specimens. Just bring in whatever you have and we'll be sure to call out your name and/or company name when the recipient claims his/her door prize.

We'll see you on June 29<sup>th</sup>.  
Nils Thompson  
AGS President

## The June Meeting

Our annual June Social would not be possible without the generous help of our sponsors. This year they are

**ASI -Analytical Services, Inc.**

**Eagle Instruments**

**ECOVAC Services**

**EMServices**

**Field Environmental Instruments, Inc**

**Piedmont Environmental Drilling**

**Triad Environmental Solutions**

**United Consulting**

Please look further into the newsletter for additional information about our sponsors and the services they provide to the geologic community here in Atlanta. We appreciate their support of the Atlanta Geological Society.

Please note that there is a PG study class this Saturday and the next AGS meeting will be August 31, 2010. The Society and the newsletter editor will take a brief break.

See you next Tuesday.

Ben Bentkowski

Newsletter Editor

## AGS PG Workshop

### Professional Geologist Career Development

The next Atlanta Geological Society Professional Geologist Candidate Workshop will be held Saturday, June 26, 2010 from **10:00 am to 12:00 pm** (back to the normal time slot) at the Fernbank Science Center. The class will be at the Fernbank Science Center, located at 156 Heaton Park Drive, N.E. Atlanta, GA 30307, phone: 678-874-7102. The Science Center is about a mile north of the Fernbank Science Museum off Ponce DeLeon. For more information about the Science Center, go to <http://fsc.fernbank.edu/>.

Subject: Structural Geology Lecturer: Dr. Tim Chowns, Ph.D.

We will review the basic kinds of faults and folds with their definitions and terminology. In particular the way in which these structures influence the outcrop patterns on geologic maps. The interpretation of structure from geologic maps is an important skill often included on basic geology tests.

Tim is a professor of Geology at the University of West Georgia. He was educated in England (BSc University of Leicester, PhD University of Newcastle upon Tyne) and immigrated in 1968. After teaching at the University of Georgia for a few years he moved to West Georgia in 1973. His main interests are in Sedimentation and Stratigraphy and especially the Geology of Georgia, but he also teaches courses in Physical and Historical Geology, Oceanography and Optical Mineralogy. Some areas of research include the origin of geodes, Pre-Cretaceous rocks below the Georgia Coastal Plain, stratigraphy and depositional environment of the Birmingham iron ores, and most recently changes in the location of inlets on the Georgia coast related to Holocene transgression.

Two hours of professional development hours are available to attendees. The classes are open to all, membership in the AGS is not required. If you are not a member, please consider joining. The AGS is the most active geologic organization in the Southeast. Please forward this invitation to anyone interested in becoming a professional geologist or whom you think might be interested in the subject.

Thanks,

Ken Simonton, P.G.

[kws876@yahoo.com](mailto:kws876@yahoo.com)

Atlanta Geological Society

AGS Continuing Education Committee

Coordinated by: Ken Simonton 10:00 pm - 12:00 noon

Held in the Classroom Annex of the

[Fernbank Science Center](#)

156 Heaton Park Dr. NE

Atlanta, GA 30307 678-874-7102

The logo for Analytical Services, Inc. (ASI) consists of the letters "ASI" in a bold, black, sans-serif font, enclosed within a thin black rectangular border.

ANALYTICAL SERVICES, INC. <http://asi-lab.com/>

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**Greenville, SC 29607**  
**(864) 297-0606**



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**MAIL:** 4355 International Boulevard  
Suite 100  
Norcross, Georgia

**EMAIL** [info@eagleinstruments.com](mailto:info@eagleinstruments.com)  
<http://www.eagleinstruments.com/>

### 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)



### INNOVATIVE REMEDIAL SOLUTIONS

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Phone: (770) 592-1001

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Mailing Address: 105 Weatherstone Drive, Suite 610 - Woodstock, Georgia 30188

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Phone at: (770) 823-7174

E-mail at: [inquiry@emservicesonline.com](mailto:inquiry@emservicesonline.com) <http://www.emservicesonline.com/>



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When you rely on Field Environmental Instruments for your project needs, you get more than equipment. You get our *commitment* to quality equipment and supplies, *dedication* to customer service, and our *drive* to be the best in the business. It is for these reasons FEI continues to set standards in the environmental equipment rental and supply industry. From the initial phone call through the arrival of the invoice, our philosophy is to work with you by providing the highest level of customer service. Our goal is to ensure your projects are completed without interruption.

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**Ray Oates, P.G. Branch Manager**  
**Field Environmental Instruments, Inc.**  
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**Toll-free: 866-620-6762**  
**Local: 678-290-9731**  
**Cell: 770-780-6870**  
**Fax: 678-290-9733**

**Fernbank Museum of Natural History**  
**Upcoming Public Programs and Events**  
 (All programs require reservations, including free programs)

**Fernbank  
 Museum of Natural History**

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 Lophorhynchon dinosaurs*

**Now Showing in IMAX Friday Evenings:  
 (Check our website for special screenings)**

- *Martinis and IMAX:* Friday evenings, 5:30 p.m. – 10 p.m.
- **Pulse: A STOMP Odyssey and Cirque du Soleil Journey of Man**

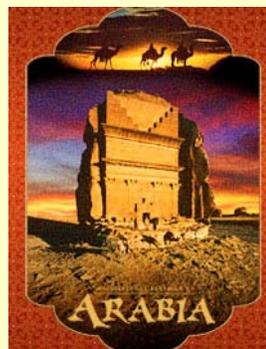
**Now Showing in the Fernbank  
 IMAX movie theater:**

(Check our website for special screenings)

• **Daytime Schedule:**



Bugs: A  
 Rainforest  
 Adventure



Arabia  
 through  
 July 29

- **Opening July 30: Lions of the Kalahari**

**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:

- **Winged Beauty: Butterflies and Other Insects:** Award winning nature and wildlife photographer Bill Harbin decorates the entry level walls here at Fernbank with 33 astounding photos of bright flowers and fluttering insects. This returning exhibition, *Winged Beauty: Butterflies and Other Insects*, is an astounding collection of images.
- **Geckos: From Tails to Toepads** Explore the amazing world of geckos in this collection of more than 15 live gecko species and accompanying interactives and media presentations.
- **Opening on May 22 in the Curators' Corner: *DeSoto's Footsteps***

### Upcoming Public Programs:

June 26 & 27, July 10 & 11: Show and Tail Weekend: Geckos

July 3 & July 18: Bug Out Festival

July 24 & 25: Show & Tail Weekend Oceans and Reptiles

Please check the website for details and updates as may be necessary

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Please see Todd Roach, President of Piedmont Environmental Drilling for all your drilling needs.

### **Piedmont Environmental Drilling, Inc.**

Todd Roach

2722 Simpson Circle

Norcross, GA 30071

**Telephone:** 800-466-9960 770-242-9040

**Fax:** 770-242-8388

**E-mail:** [peddrilling@att.net](mailto:peddrilling@att.net)



Triad Environmental Solutions, Inc. (TES) provides Turnkey Triad Site Characterization services that manage uncertainty in contaminated property site remediation.

Uncertainty management in environmental decisions is the basis of the US EPA Triad Approach. This is accomplished by systematic planning, real-time, high density data and on-site decision making. The approach addresses the **largest uncertainty in environmental investigations: subsurface heterogeneity.**

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With our experience and strategic partners, TES provides our clients with the most cost effective solutions. Our clients realize **significant time and cost savings due to the increased success of remediation** based on our site characterizations and final characterization conceptual site models. Dr. William M. Davis, the founder and president of TES, is an **original participant in the development of the US DOE Expedited Site Characterization program and the US EPA Triad Approach.**

Triad Environmental Solutions, Inc. | 220 Kathryn Ave., Decatur, GA 30030  
Office 404.378.3326 | Mobile 703.201. 6064 | Fax 404.377.6835 | Email [wmdavis@triad-env.com](mailto:wmdavis@triad-env.com)  
<http://www.triad-env.com>

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A Couple of interesting Blogs for your consideration:

<http://aguanomics.com/>

The Economics of Water (and other stuff)

Dave Zetland, PhD, economist and Damian Bickett, PhD candidate, both at UC Berkley

<http://grundwasser.blogspot.com/>

Random Groundwater Notes

A blog where the authors are associated with the UC Davis Groundwater Cooperative Extension Service

## AGS Officers

**President:** Nils Thompson  
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**Treasurer:** Stacey Durden  
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[stacy.durden@gmail.com](mailto:stacy.durden@gmail.com)

## AGS 2010 Meeting Dates

Listed below are the planned meeting dates for 2010. Please mark your calendar and make plans to attend.

June 29 – Annual Social – BBQ and IMAX

July – No meeting

August 31 TBA

## AGS Committees

**AGS Publications:** Allison Keefer  
 Phone (404) 657-8642  
[allison\\_keefer@dnr.state.ga.us](mailto:allison_keefer@dnr.state.ga.us)

**Career Networking/Advertising:** Todd Roach  
 Phone (770) 242-9040, Fax (770) 242-8388  
[tdr@piedmontdrilling.com](mailto:tdr@piedmontdrilling.com)

**Continuing Education:** Currently Open

**Fernbank Liaison:** Chris Bean  
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[www.atlantageologicalsociety.org](http://www.atlantageologicalsociety.org)



### United Consulting Headquarters

625 Holcomb Bridge Road  
Norcross, Georgia 30071

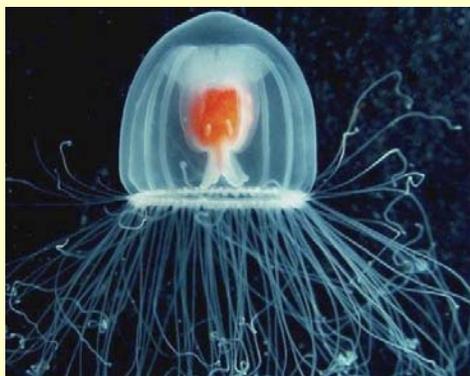
**Client Service:** 1.800.266.0990

**Email:** [information@unitedconsulting.com](mailto:information@unitedconsulting.com)

<http://www.unitedconsulting.com/>

United Consulting is a multi-disciplined engineering consulting firm based in Norcross, Georgia, specializing in geotechnical engineering, environmental services, geophysical services, construction materials testing, and inspections. Over the past 20 years, United Consulting has grown to 85 employees, including more than 15 professionally registered geotechnical and structural engineers, geologists and surveyors. United Consulting's commitment to client satisfaction is evidenced by our ISO:9001-2008 Certification and instrumental in the firm successfully executing some of the biggest and most complex projects in the Southeast. United Consulting's top management has been together for more than 25 years, with our Senior Management and Team Leaders averaging over 15 years each with our firm. Because of these dedicated individuals, we enjoy an excellent reputation throughout the metropolitan Atlanta area and Georgia as a technical leader with a customer service oriented attitude and able to provide expert engineering, environmental services, and value engineering.

### I know, its not geology, but...



(Photo: [Peter Schuchert](#))

Bryan Nelson is a regular contributor  
to [Mother Nature Networ](#)

The *Turritopsis nutricula* is known as the "immortal jellyfish" because even once sexually mature, it can revert back to its polypoid stage, its first life stage. And then rinse and repeat. Again and again. Since it is capable of cycling from a mature adult stage to an immature polyp stage and back again, there may be no natural limit to its life span. Scientists say the [hydrozoan](#) jellyfish is the only known animal that can repeatedly turn back the hands of time and revert to its polyp state (its first stage of life).

The key lies in a process called transdifferentiation, where one type of cell is transformed into another type of cell. Some animals can undergo [limited transdifferentiation and regenerate organs, such as salamanders](#), which can regrow limbs. *Turritopsi nutricula*, on the other hand, can regenerate its entire body over and over again. Researchers are studying the jellyfish to discover how it is able to reverse its aging process.

## 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  
 Phone: 770-617-1146  
 Email: Stacy.Durden@gmail.com

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

**Atlanta Geological Society**  
 Stacy Durden, Treasurer  
 2534 Centennial Commons View  
 Acworth, GA 30102

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.