



## AIPG GEORGIA SECTION

Ron Wallace, President  
Eric Lowe, Vice President  
Glen Faulkner, Treasurer  
Hanna Hill – West Georgia student chapter  
Rebecca Pickering – Georgia State student chapter  
Don Osborne – Columbus State student chapter  
John Harper and Davison Hogan – University of Georgia student chapter

October 2012

### NEXT MEETING

#### **GSA Annual Meeting and Exposition**

Session 140 “Geology Careers for New Geology Graduates”

**When:** Tuesday, November 6, 2012

**Where:** Charlotte Convention Center: Room 209AB from 8:00 AM – 12:00 PM

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#### **PRESIDENTS MESSAGE**

This news letter is a little later than I would have liked but we had a very successful two day conference at Kennesaw State University in September and I represented our section at AIPG annual conference in Rapid City, SD. Last winter John Stewart (president of the Carolina Section) and I proposed a session to GSA for their national conference in Charlotte, NC. It was accepted and last spring and into the summer we have been working on the GSA talks. We have a total of 16 speakers coming from 14 different states and we could have had more except for the time limit that GSA placed on us. We think we have a good variety of subjects so I hope we get a good turnout of our members. AIPG will have a booth at the conference so please come by, especially if you have not signed up as a student member. Membership is free for students. I plan to be in Charlotte from Sunday to Tuesday so I hope to meet many of you there. It should be a fun time.

Going into the fall semester we have new student officers at all four universities. I have met a few of the new officers and not all are AIPG student members but we will work on that. Later in this news letter I'll mention some of their planned activities this year.

Next year is going to be a very busy time for me with the 50<sup>th</sup> anniversary of AIPG and lots of traveling around the country for meetings and to visit other sections. I still hope to visit our student chapters in the spring and we will be giving six scholarships to our six universities.

#### **AIPG Conference September 12-13:**

This was by far our most successful conference and we hope to continue the high quality of speakers and exhibitors in the future. We had a total of 20 speakers and added a panel discussion on the application of the 2012 US EPA science papers to the vapor intrusion pathway. We had a few last minute additions in our exhibitors but ended with a total of 18. We surpassed our previous high in registered attendance with approximately 140 and a total attendance of 170. We also had 20 Georgia EPD employees attend. As part of registration a memory stick with all the abstracts, presentations, handout, and exhibitor material was give to each registrant. I'd like to thank Eric Lowe, Glen Faulkner and Yo Sumartojo in putting this altogether. You can go to AIPG's home page, where you can go to our Georgia Section web site and all the information from the conference will be posted. Please consider using the services of our exhibitors.



AIPG Conference at Kennesaw State University



Attendees talking in the exhibition hall



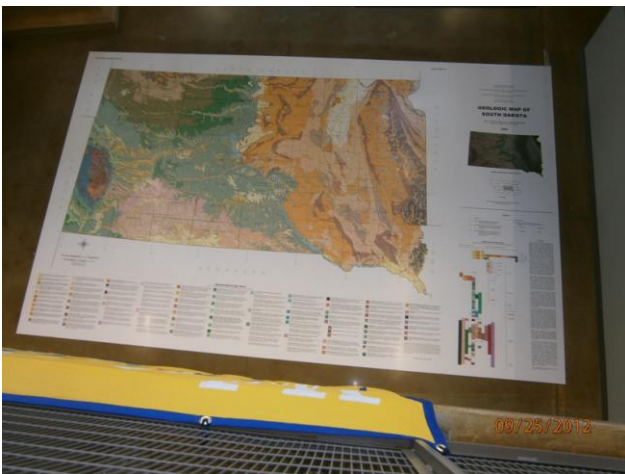
Exhibition hall



The aspens were at full color in South Dakota



Devils Tower doesn't look as tall



Geologic map of South Dakota on floor of the Paleontology Research Laboratory at SD School Of Mines and Technology



Museum on SD School of Mines campus

The trip to Rapid City, South Dakota was very enjoyable and seeing old friends and meeting new friends. The executive meeting was very positive with a number of updated position statements approved. Members of the Executive Committee are doing a very good job in contacting the sections and updating them on activities at the National level and receiving feedback from the sections. The new adviser board members were elected and for next year the four members are: Tom Cavanaugh (CO), Bob Gaddis (OK), Brent Huntsman (OH), and Larry Weber (TN). I went on one field trip on Sunday to the Black Hills where we stopped at Rare Element Resources office to hear a talk on their exploration efforts. In the back of the building was their core barn where we were able to look at hundreds of feet of core. From there we drove a few miles from their prospect mining area to look at the outcrops. After lunch we drove to nearby Devils Tower. Monday was set aside to listen to talks all day. Tuesday I went on a tour of the Paleontology Research Laboratory and museum on the campus of South Dakota School of Mines and Technology. With the research laboratory they have been able to bring all their collections that are not on public display together in one building. They continue to inventory the vast amount of vertebrates, cores, maps, book, and slides. If you are planning on retiring soon and looking for something to do, this would be a great place to volunteer. The museum has a number of great fossils that come from the area and well forth a visit.

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## **Georgia State University**

President: Rebecca Pickering  
Vice President: Lucy Taylor  
Secretary: Carina O'Bara

We have 3 students presenting at GSA in Charlotte. Our big trip planned for this semester (besides GSA) is an overnight adventure to the Mammoth Cave Research Station. One of our professors is leading the trip and a couple researchers are tagging along to give us tours. The dates are October 27-28, 2012. Also as Club president I offered to co-sponsor a talk next March from Ben Santer (contributor to all four assessment reports of the Intergovernmental Panel on Climate Change (IPCC)).

## **Columbus State University**

President: Don Osborne  
Vice President: Bryan Victor  
Treasurer: Danny Redding  
Secretary: Jeannie Patrick

For October: Camping trip to be facilitated by Bryan Victor. A CV clinic to prepare members for applying for upcoming internships and REU deadlines. A rock equipment seminar given by Bryan Victor. For November: Internships and REU application Workshop to be facilitated by Danny Redding.

## **University of West Georgia**

President: Hannah Hill  
Vice-President: Mark Thomas  
Secretary: Jenna Schmidt  
Treasurer: Ryan Griffin

## **University of Georgia**

Co-heads: John Harper and Davison Hogan  
Treasurer: Ethan VanHazebroeck  
Secretary: Rachel Sellers

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8:00 AM-12:00 PM, Charlotte Convention Center: 209AB

## **T62. GEOLOGY CAREERS FOR NEW GEOLOGY GRADUATES (*GSA GEOPHYSICS DIVISION; AMERICAN INSTITUTE OF PROFESSIONAL GEOLOGISTS; NATIONAL ASSOCIATION OF GEOSCIENCE TEACHERS*)**

John M. Stewart and Ronald J. Wallace, Presiding

Paper #	Start Time	
140-1	8:00 AM	<a href="#">THE IMPORTANCE OF BUSINESS SKILLS FOR A GEOLOGIST ENTERING THE PROFESSION AS A CONSULTANT</a> : <b>WEBER, Lawrence C.</b> , TTL, Inc, 5010 Linbar Drive, Suite 153, Nashville, TN 37211, lweber@ttlusa.com
140-2	8:15 AM	<a href="#">ETHICS AND GEOLOGY</a> : <b>FOX, Fred L.</b> , 13028 W Butter Bush Street, Tucson, AZ 85743, fredfox@comcast.net
140-3	8:30 AM	<a href="#">3D DIGITAL BLOCK MODELING AND 4D MINE PLANS</a> : <b>LINDER, Daniel Edward</b> , RJ Lee Group, 350 Hochberg Road, Monroeville, PA 15146, dlinder@rjlg.com
140-4	8:45 AM	<a href="#">GOING FORTH SAFELY INTO THE FIELD OF GEOLOGY</a> : <b>GORDON, Howard J.</b> , HSSE Manager–Commercial Sector, CH2M Hill, Denver, CO 80112, Howard.Gordon@ch2m.com
140-5	9:00 AM	<a href="#">EXPLORING STUDENTS' IMMEDIATE TRAJECTORIES INTO THE GEOSCIENCE WORKFORCE</a> : <b>WILSON, Carolyn</b> , KEANE, Christopher M., and HOULTON, Heather R., American Geosciences Institute, 4220 King Street, Alexandria, VA 22302, cwilson@agiweb.org
140-6	9:15 AM	<a href="#">WEARING MANY HATS IN YOUR CAREER AS A GEOLOGIST</a> : <b>HAYES, Brian L.</b> , World Environmental, LLC, 210 SpringHill Dr, Ste. 155, Spring, TX 77386, bhayes41@nc.rr.com
140-7	9:30 AM	<a href="#">SO YOU WANT TO BE A GEOLOGIST - MILITARY ASPECTS OF THE TERRAIN</a> : <b>JENS, John C.</b> , US Army Corps of Engineers, Army Geospatial Center, 9302 Alexa Ct, Manassas Park, VA 20111, jcjens@earthlink.net
140-8	9:45 AM	<a href="#">JOB OPPORTUNITIES: ALASKA NATIVE CORPORATIONS AND NATIVE AMERICAN INDIAN TRIBES. RESOURCES TO RECLAMATION</a> : <b>BUCKLEY, Steve</b> , WHPacific/NANA Native Corporation, 300 W 31st Ave, Anchorage, AK 99503, steve.watershed@gmail.com
140-9	10:00 AM	<a href="#">CAREER OPPORTUNITIES FOR GEOSCIENTISTS IN THE POLICY ARENA AND RELATED SECTORS</a> : <b>WUNSCH, David Robert</b> , Delaware Geological Survey, University of Delaware, 257 Academy Street, Newark, DE 19716, dwunsch@udel.edu
140-10	10:15 AM	<a href="#">TEACHING AS A CAREER: SECONDARY AND POST-SECONDARY GEOSCIENCE INSTRUCTION</a> : <b>URBAN, Michael J.</b> , Department of Professional Education, Bemidji State University, 1500 Birchmont Dr. NE, Bemidji, MN 56601, murban@bemidjistate.edu
140-11	10:30 AM	<a href="#">GEOSCIENCE CAREERS AND PUBLIC SAFETY: PART OF YOUR COMMUNITY</a> : <b>RUBIN, Jeffrey N.</b> , Tualatin Valley Fire & Rescue, 11945 SW 70th Ave, Tigard, OR 97223, jeff.rubin@tvfr.com
140-12	10:45 AM	<a href="#">SELF EMPLOYMENT AS A GEOLOGIST - FIRST KNOW THYSELF</a> : <b>ICENHOUR, Greg D.</b> , Shield Engineering, Inc, 4301 Taggart Creek Road, Charlotte, NC 28208, gicenhour@shieldengineering.com
140-13	11:00 AM	<a href="#">CAREER CHOICES FOR GEOSCIENCE STUDENTS IN A LARGE CONSULTING COMPANY</a> : <b>STEWART, Robert A.</b> , ARCADIS US, Inc, 160 Chapel Road, Suite 201, Manchester, CT 06042, bob.stewart@arcadis-us.com
140-14	11:15 AM	<a href="#">APPLICATIONS OF GEOLOGICAL/MINERALOGICAL CONCEPTS IN THE PHARMACEUTICAL, CHEMICAL AND MATERIALS INDUSTRIES</a> : <b>SMOLIGA, John A.</b> , Analytical Sciences, Boehringer Ingelheim Pharmaceuticals, Inc, 900 Ridgebury Rd, Ridgefield, CT 06877, john.smoliga@boehringer-ingelheim.com
140-15	11:30 AM	<a href="#">GEOLOGY CAREERS IN THE COAL INDUSTRY</a> : <b>POPP, John T.</b> , Natural Resource Partners L.P, 5260 Irwin Road, Huntington, WV 25705-3247, jpopp@wpplp.com
140-16	11:45 AM	<a href="#">HYDROGEOLOGY: A CAREER</a> : <b>MITCHELL, Mark D.</b> , 4080 Deerwood Pkwy, Smyrna, GA 30082, mmitchell@genproject.com

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## **FEDERAL DOCUMENTS**

### **INTERNATIONAL OCEAN DISCOVERY PROGRAM RELEASES 10-YEAR SCIENCE PLAN**

The upcoming International Ocean Discovery Program (IODP), currently the Integrated Ocean Drilling Program, has released its 2013-2023 science plan titled, "Illuminating Earth's Past, Present and Future." The new IODP will operate from 2013-2023 and explore four scientific themes - Climate and Ocean Change: Reading the Past, Informing the Future; Biosphere Frontiers: Deep Life and Environmental Forcing of Evolution; Earth Connections: Deep Processes and Their Impact on Earth's Surface Environment; and Earth in Motion: Processes and Hazards on Human Time Scales.

The new IODP will provide deep sea sediments which allow scientists to explore climate and ocean change questions regarding how the Earth's climate system responds to elevated levels of atmospheric carbon dioxide, how ice sheets and sea level will respond, what controls regional patterns of precipitation, such as those associated with monsoons or El Niño, and how resilient the ocean is to chemical perturbations.

Data and samples that will be collected throughout this 10-year program are designed to explore biosphere questions pertaining to the origin, composition and global significance of deep seafloor communities, what the limits of life in the seafloor realm are, and how sensitive ecosystems and biodiversity are to environmental change.

For the first time, IODP will "pursue the challenge of penetrating the 5–6 km thick oceanic crust and directly sampling ...the underlying mantle from which all oceanic crust, and much of the continental crust, is derived." This effort is part of the geodynamics theme which is designed to explore what the composition, structure, and dynamics of the upper mantle are; how seafloor spreading and mantle melting are linked to ocean crustal architecture; what the mechanisms, magnitude and history of chemical exchanges between the oceanic crust and seawater are; and how subduction zones initiate, cycle volatiles and generate continental crust.

Under the geohazards theme, IODP ocean drilling experiments will provide tools to discover what mechanisms control the occurrence of destructive earthquakes, landslides and tsunamis; what properties and processes govern the flow and storage of carbon in the seafloor; and how fluids link seafloor tectonic, thermal and biogeochemical processes.

### **U.S., CANADA SIGN GREAT LAKES WATER QUALITY AGREEMENT**

Canada and the U.S. signed an amended version of the Great Lakes Water Quality Agreement on September 7, 2012. The Great Lakes Water Quality Agreement, first signed in 1972 and last amended in 1987, is a commitment by both nations to restore and maintain the Great Lakes which contain 21 percent of the world's fresh surface water.

New requirements address the nearshore environment, threats from invasive species such as the Asian carp, habitat degradation and climate change and the amendments support continued work on existing threats to people's health and the environment such as harmful algae, toxic chemicals, and discharges from vessels.

### **SHELL DELAYS SUMMER DRILLING IN BEAUFORT AND CHUKCHI SEAS**

After initially planning to complete five wells in the summer of 2012, Royal Dutch Shell PLC announced on September 17, it will forgo oil drilling in Alaska's Beaufort and Chukchi Seas for the 2012 season because of damage to key oil spill response equipment.

Shell officials said the company's containment dome was damaged during the final tests aboard the *Arctic Challenger* and will not have enough time to make repairs before the drilling window closes in 2012. However, Shell has been permitted by the Bureau of Safety and Environmental Enforcement (BSEE) to drill top holes, shallow exploratory wells that stop short of oil-bearing rock, through October in the Beaufort Sea. This is expected to help accelerate drilling activities next summer.

This decision marks yet another setback for Shell, which has already spent \$4.5 billion and six legal challenges and delays related to ice and construction problems to drill into these oil rich regions. According to the U.S Geological Survey, the Beaufort and Chukchi Seas could hold as much as 27 billion barrels of oil and 132 trillion cubic feet of natural gas.

## **Government Accountability Office (GAO)**

### **Spent Nuclear Fuel: Accumulating Quantities at Commercial Reactors Present Storage and Other Challenges**

In this report, the Government Accountability Office (GAO) was asked to examine the amount of spent nuclear fuel (SNF) expected to accumulate before it can be moved from commercial nuclear reactor sites, the key risks posed by stored SNF and actions to help mitigate these risks, and key benefits and challenges of moving SNF out of wet storage and ultimately away from commercial nuclear reactors. GAO found that new storage facilities may take 15-40 years before they are ready to accept SNF and several more decades to ship the SNF to the facility. In this time, the amount of SNF stored on-site at commercial nuclear reactors is expected to reach about 140,000 metric tons.