The 2012 GSA Annual meeting was held in Charlotte, North Carolina from November 4-7. The meeting drew over 5688 attendees, 322 of them were Hydrogeology Division members. The Division sponsored or co-sponsored over 30 oral and poster sessions that were all well attended. As usual, the Hydrogeology Division held many events during the course of the meeting, including the student reception and the luncheon and awards ceremony. This year marked the first time that the Kohout Early Career award was awarded. Articles detailing all of these events are included in this newsletter.

By all accounts, the Charlotte Annual meeting was a successful coming together of a wide variety of researchers and practitioners in the hydrogeological sciences. Next year is the 125th anniversary of the GSA, and the Annual Meeting in Denver promises to be an even larger event. So, mark your calendars for October 27-30 and join us all to celebrate 125 successful years of the organization.

Current Hydrogeology division chair Todd Halihan attempting to get the attention of the students in the free beer line at the Student Reception.
Chair’s Corner...

Todd Halihan, Chair
GSA Hydrogeology Division

As current Chair of the GSA Hydrogeology Division, I’d like to start off by thanking all of you for the opportunity to serve. We don’t get much credit for service opportunities, but they are some of the most rewarding opportunities we have. I have made the Hydrogeology Division my professional home and I am always pleased to see the wide range of people that participate in the division. Every meeting conducted by the society has a whole team of people that make them possible, but the people in this division also make the meetings warm and inviting just by the nature of our membership.

I would like to thank a number of members who contributed to the strength of the Hydrogeology Division in the past year. Steve Ingebritsen for his hard work as Chair; Alicia Wilson for managing our Technical Program contributions in Charlotte; Bill Sanford and Eliot Atekwana for accepting the organizational challenge for the upcoming 125th meeting in Denver. Andrea Brookfield and Mike Sukop for keeping this Newsletter and our website active and functional; they are really great at it! Finally, our thanks to the outgoing Secretary/Treasurer, Brian Katz, who has served as Hydro Division Secretary/Treasurer for a really long time. Brian's institutional memory was invaluable, as the rest of your Management Board rotates on an annual basis. We are fortunate to have Eric Peterson replacing Brian as someone who can continue to steer the financial ship for the division.

This year is special for GSA as it is the 125th anniversary. We are trying to organize some special events for the occasion. We will let you know as they get organized. Our science is interesting as it was very primitive 125 years ago and a huge amount has changed.

I encourage you to attend not only the national meeting in Denver, but take a look at a sectional meeting for training (or hiring) students and meeting with colleagues. If you have questions throughout the year, just let us know. It is your division and we would like it to be professionally fulfilling and fun.

Warm Regards,

Todd

The Hydrogeologist

The Hydrogeologist is a publication of the Hydrogeology Division of the Geological Society of America. It is issued twice a year, to communicate news of interest to members of the Hydrogeology Division. During 1998, the publication moved from paper-based to electronic media. The electronic version may be accessed at: <http://gsahydro.fiu.edu>. Members of the Hydrogeology Division who have electronic mail will receive notification of all new issues. Other members will continue to receive paper copies.

Contributions and material are most welcome, and should be directed to the Editor. Submission as a Word or WordPerfect document is most expedient. The deadline for the Summer issue is May 15, 2012.

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As is becoming the norm for the event, the Hydrogeology Division Luncheon and Awards Reception was yet again a sold out event. Throughout the luncheon awards were handed out, including the Outstanding Student Research Awards, the Meinzer Award, the Distinguished Service Award, and for the first time ever, the Kohout Early Career Award.

For the second year, hydrogeology students who receive the GSA’s Outstanding Research Awards also receive the David M. Diodato Travel Grant from the Hydrogeology Division. This year 4 Hydrogeology students received the award:

- Amy Brown, University of Florida, “The influence of metal oxide precipitates on trace metal cycling in karst aquifers subject to periodic river water intrusion.” Advisor: Jonathan Martin
- Ryan Gordon, Syracuse University, “Groundwater-surface water interactions in proglacial alpine meadows and their influence on downstream water resources in the semi-arid tropical Andes.” Advisor: Laura Lautz
- Mitra Khadka, University of Florida, “Radon (Rn-222) and Thoron (Rn-220) as hydrological tracers for quantifying river water and groundwater exchange in a karst system.” Advisor: Jonathan Martin
- Stephen Sellwod, University of Wisconsin-Madison, “Use of distributed temperature sensing to determine the influence of fracture flow in siliciclastic bedrock aquifers.” Advisor: Jean Bahr

The 2012 Birdsall-Dreiss lecturer, Jay Famiglietti was in attendance to discuss his year on the lecture tour. The 2013 Birdsall-Dreiss lecturer, Dani Or, was also introduced although he was unable to attend the meeting. Details regarding Dani’s upcoming lecture tour were given in the Fall 2012 newsletter.
The Hydrogeology Division’s Student Reception is always a fun and well-attended event, and this year was no exception. Over 120 students attended based on the number of complimentary beer tickets from the David M. Diodato Beer Fund. The purpose of the Reception is to provide students the opportunity to mingle with faculty members and professionals.

Throughout the year, many companies, organizations and individual donated items for the student reception to be used as prizes for the trivia contest. As in previous years, Todd Halihan (who is now the Hydrogeology Division chair) served as the MC. This year, Bette Siegel served as the official contest judge, with unquestioned authority on which contestant buzzed in first. The students self organized based on one’s interests into teams that were led by a faculty member or professional with similar interests. This year, Todd required that the remainder of the faculty members and professionals to join the teams as well to help the students out, and to encourage more mingling. The student reception is always a success due in part to the work of several volunteers and the prize donors. To make a donation for the 2013 event please contact Kallina Dunkle (dunklek@apsu.edu).

Thanks Again to our Donors:

**Software:**
- Golden Software
- RockWare
- Schlumberger
- AquaVEO
- Haitjema Software

**Organizations:**
- American Geosciences Inst.
- GSA Foundation
- GSA Hydrogeology Division
- NGWA
- CUASHI

**Publishers:**
- National Academic Press
- McGraw Hill
- Pearson
- W.H. Freeman
- Wiley

**Individuals:**
- Patricia Bobeck
- Ira Sasowsky
- Steve Ingebritsen

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Student Reception

By Stephen Van der Hoven and Andrea Brookfield

Handing out free beer tickets to students, compliments of the David M. Diodato Beer Fund.

A combination of faculty/professionals and students competing in the trivia competition.

Students selecting items from the prize table after winning the trivia game.
This Edition’s Photo:
This photo is brought to us by the new GSA Hydro Division chair, Todd Halihan. While at first glance it does not appear to have much to do with Hydro, upon closer inspection, it actually does. This photo was taken at a place near and dear to our new chair, where the town’s water is supplied by the largest spring in the state. In addition, it features a researcher who became famous both on and off the silver screen over the past year. Obscure references? Yes, but it makes for a great story in the next edition.

Two questions for this month: Where in the world is this? Who in the world is this?
Send your guesses to andrea@kgs.ku.edu.

Do you have an interesting idea for a short scientific article? Perhaps an opinion on a new policy or technique? Any exciting news in your professional life? Upcoming conference? An announcement of interest to the hydrological community? If so, why not publish it in The Hydrogeologist? Send your submission ideas to andrea@kgs.ku.edu

STUDENTS, WE WANT TO HEAR FROM YOU TOO!
Pamlico Sound, North Carolina

Congratulations to Darryll Pederson of the University of Nebraska-Lincoln for being the first to correctly identify Pamlico Sound, North Carolina as the Where in the World photo from the previous newsletter. Congratulations as well to Judson Harvey, Christopher Carlson, N. LaJan Barnes, Jay Neuhaus, LaVerne Miller and Nathan Rossman for also correctly identifying this location.

Pamlico Sound is the largest lagoon along the U.S. East Coast at 80 miles long and 15 to 30 miles wide. This sound separates the Atlantic Ocean from the Outer Banks by a row of low, sandy barrier islands. This sound is part of a large, interconnected network of lagoon estuaries and is the second largest estuary in the United States; second to Chesapeake Bay.

This area is very environmentally sensitive due to its relatively long average freshwater residence time (1 year). This long residence time has been shown to promote the effective use and cycling of nutrients, allowing it to support high rates of primary and secondary production. This area serves as an important fisheries nursery. Also due to the long residence time, this area is very sensitive to nutrient over-enrichment and eutrophication from processes such as nutrient loading from hog waste runoff from agriculture in eastern North Carolina, running off into Neuse River and subsequently Pamlico Sound.

Information for this article from Wikipedia, pamlico.com and “Assessing the Response of the Pamlico Sound, North Carolina, USA to Human and Climatic Disturbances” by Paerl et al. 2010, in Coastal Lagoons (ISBN: 978-1-4200-8831-1)
The Division also recognized the 2012 recipients of the 2012 Meinzer and Distinguished Service awards, in addition to the first Kohout Early Career recipient. Brian G. Katz was recognized for the Distinguished Service Award, and was introduced by his citationist, Ed Harvey. The 2012 Meinzer award recipient is David Leland Parkhurst, and he was introduced by his citationist Pierre Glynn. The inaugural Kohout Early Career award recipient was Bayani Cardenas. He was introduced by his citationist Vitaly Zlotnik.

The 2012 Hydrogeology Division Luncheon and Awards Reception was a resounding success, and it is anticipated that this success will only continue in 2013 at the GSA Annual Meeting celebrating the 125th Anniversary of GSA in Denver, CO.

Want to know what’s going on within the GSA Hydrogeology Division?

Then visit our website at <http://gsahydro.fiu.edu>
OR
Join the GSA Hydrogeology Division facebook group to catch up on the latest events or find out how you can become more involved with our activities.
As a field hydrogeologist, I find that everybody has a particular piece of equipment that they find handy in the field. I thought the newsletter would be a good place to put some of that accumulated knowledge from our ranks. If you have a particular piece of equipment that you wouldn't leave home without, write us and let us know what it is, we can put it in here for all to benefit.

My piece of equipment for this issue comes from a visit to Cabela's original hometown of Kearney, Nebraska. While doing fieldwork, I stopped in to look at new boots. The salesperson asked me if I wanted a work boot or a hiking boot. I said yes. Without batting an eye, she said there was only one choice. She suggested that the pair wasn't pretty, but very functional. It turns out she was right. I didn't know it, but elk hunting and hydrogeology have much in common. Wet conditions and a lot of mileage occur for both endeavors. Elk hunting boots are lightweight and waterproof and what someone would design for hydrogeologists if we had sufficient cache to have someone design boots for us. I have purchased a couple of different brands now, but they are similar in their qualities. They run about $100 and last for a few seasons. They generally have a lovely camo color, but work well in the field. If you duct tape them to your pants, they also can be used for a quick dash through a stream or to avoid chiggers and ticks. They are also available in an insulated variety, but as a hydrogeologist who doesn't work in the middle of snow season much, I haven't tried those out. Perhaps if we buy enough of a particular brand, they will start putting on the GSA logo for us, or at least provide some different colors.

Happy Field Work!

Todd

Coming Soon:
GSA’s Connected Community

GSA is launching a new online networking and collaboration site for members featuring communities and directories for networking; discussion groups for asking questions and sharing knowledge; personal profiles you can update with your photo, bio, interests, and more; and resource libraries with fully searchable documents, videos, and images.

A big Thank-You to attendees at the 2012 GSA Annual Meeting in Charlotte who helped to beta test the community. As we address the issues discovered there, the GSA leadership will transition to this new way of communicating in the coming months and we plan to roll it out to the general membership mid-year.

**This article is taken from the GSA website: http://www.geosociety.org/w2/index.htm**
### From the Editor....

Welcome to the Winter 2013 edition of The Hydrogeologist. For those of you who attended the Annual meeting in Charlotte, this edition will remind you of all the good times we had there. For those of you who missed the meeting, this edition will serve as a reminder to join in the festivities at the next meeting, the 125th Anniversary meeting, in Denver, CO from October 27-30, 2013.

As usual, forward and comments or article ideas to andrea@kgs.ku.edu.

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**2013 GSA Annual Meeting**

Celebrate the 125th Anniversary of the GSA

October 27-30, 2013
Denver, CO

[www.geosociety.org/meetings/2013/](http://www.geosociety.org/meetings/2013/)

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**North Central Section Meeting**

May 2-3, 2013
Kalamazoo, MI

[www.geosociety.org/Sections/nc/2013mtg/](http://www.geosociety.org/Sections/nc/2013mtg/)

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**Rocky Mountain Section Meeting**

May 15-17, 2013
Gunnison, CO

[www.geosociety.org/Sections/rm/2013mtg/](http://www.geosociety.org/Sections/rm/2013mtg/)

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**Northeastern Section Meeting**

March 18-20, 2013
Bretton Woods, NH

[www.geosociety.org/Sections/ne/2013mtg/](http://www.geosociety.org/Sections/ne/2013mtg/)

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**Southeastern Section Meeting**

March 20-21, 2013
San Juan, Puerto Rico

[www.geosociety.org/Sections/se/2013mtg/](http://www.geosociety.org/Sections/se/2013mtg/)

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**South Central Section Meeting**

April 4-5, 2013
Austin, TX

[www.geosociety.org/Sections/sc/2013mtg/](http://www.geosociety.org/Sections/sc/2013mtg/)

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**Cordilleran Section Meeting**

May 20-22, 2013
Fresno, CA

[www.geosociety.org/Sections/cord/2013mtg/](http://www.geosociety.org/Sections/cord/2013mtg/)

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**IAH 2014 - Groundwater: Challenges and Strategies**

September 15-19, 2014
Marrakech, Morocco

[www.iah2014.org](http://www.iah2014.org)
Hydrogeology Division Contacts

2013 Management Board
Chair: Todd Halihan: todd.halihan@okstate.edu
First Vice-Chair: Alan Fryar: alan.fryar@uky.edu
Second Vice-Chair: Maddie Schreiber: mschreib@vt.edu
Secretary-Treasurer: Eric Peterson: ewpeter@ilstu.edu
Past Chair: Steve Ingebritsen: ingebritr@sbcglobal.net

Standing Committees

Technical Program Committee:
Bill Sanford and Eliot Atekwana (2013 - Denver)

Nominating Committee: Scott Bair (Chair), Ed Harvey, Steve Ingebritsen

Meinzer Award Committee:
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Birdsall-Dreiss Lecturer Commitee:
Jeffrey McDonnell (Chair), Jay Famiglietti, Dani Or

Distinguished Service Award Commitee:
Laura Lautz (Chair), Mary Anderson, Brian Katz

Kohout Early Career Award: Steve Van der Hoven (Chair), Scott Tyler, Shaul Hurwitz, Maddie Schreiber, Bayani Cardenas

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Historical Committee:
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Section Representatives:
Cordilleran - Beth Weinman
Northeastern - Todd Rayne
North Central - Sue Swanson
South Central - Marcia Schulmeister
Rocky Mountain - Andrew Manning
Southeastern - Joe Donovan

Representatives to other Societies:
American Geophysical Union - TBD
American Geological Institute - Dave Stephenson
National Ground Water Association - Bill Alley
International Assoc. of Hydrogeologists - Jack Sharp & Vicky Kretsinger
Society for Sedimentary Geology - Gary Weissman

Newsletter Editor: Andrea Brookfield: andrea@kgs.ku.edu

Web Administrator: Mike Sukop

GSA Hydro. Division Liaison: Janet Herman

Hydrogeology Division Website: <http://gsahydro.fiu.edu>