

The Hydrogeologist

Newsletter of the
GSA Hydrogeology Division

Winter 2014
Issue No. 81



The 2013 GSA Annual meeting held in Denver, Colorado from October 27-30 marked the 125th anniversary of the GSA. The meeting drew a record 8061 number of attendees, 409 from the Hydrogeology Division. The Division also sponsored or co-sponsored over 30 oral and poster sessions, in addition to a variety of other events throughout the meeting.

As usual, the luncheon and awards ceremony was a sold out event, with over 175 tickets sold. Later that day, after the final presentation by the outgoing Birdsall-Dreiss lecturer, the Division hosted the always popular student reception. At the reception dozens of students competed for prizes donated by numerous individuals, corporations and groups (see page 9 for more details).

A special event was held to celebrate the 125th anniversary of GSA. On Saturday October 26th the Division held a Legends Dinner to commemorate, celebrate and remember some of the Legends of Hydrogeology (see page 5 for more details).

The 2013 meeting was a resounding success, surpassing all expectations. While next year's meeting does not bring about a big anniversary, it will also be an exciting event as the meeting goes North of the border for the first time since 1998. The 2014 Annual meeting will be held in Vancouver, BC Canada on October 19-22nd. We hope to see you all there!



Students pick up a thank you note after choosing a prize at the student reception, to send to those who donated it.



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Chair's Corner...



**Alan Fryar, Chair
GSA Hydrogeology
Division**

Greetings from rainy Morocco! That may sound like a contradiction, but winter here is the relatively wet season. I'm spending 4 months as a visiting researcher at the Faculty of Sciences and Technology in Fez. It's an interesting part of the world in which to be studying hydrogeology—more about that in the next issue of the newsletter.

I feel honored to be Chair of the Hydrogeology Division, which has been my professional home for more than 20 years. (The little voice inside my head is saying, "Don't mess it up.") The night before the 2013 Annual Meeting in Denver, around 70 of us celebrated the history of our division, and those members who founded

and have sustained it, at our first Legends Dinner. I'm grateful to Todd Halihan, our Past Chair and the organizer of that event, for all his efforts during the preceding year. Likewise, I need to thank a number of other volunteers for their service:

- the other members of the Management Board: Madeline (Maddy) Schreiber, First Vice-Chair; Alicia Wilson, Second Vice-Chair; and especially Eric Peterson, Secretary-Treasurer;

- Andrea Brookfield, our newsletter editor, and Mike Sukop, our webmaster

- our committee chairs and members; section representatives; liaisons to other societies and groups; and council representatives.

In particular, I appreciate the hard work of our technical program co-chairs for the 2013 Annual Meeting, Bill Sanford and Eliot Atekwana, and our program chair for the 2014 Annual Meeting in Vancouver, Ben Rostron. Chris Gellasch is assisting Ben and will be program chair for the 2015 Annual Meeting in Baltimore. Based on a peek at the topical session proposals we've been asked to sponsor, I'm looking forward to another diverse

and engaging set of sessions. At the risk of over-reaching, I have several goals for this year: (1) Expand the division's international profile. Our Annual Meeting in Vancouver, the first outside the USA since 1998, offers opportunities for engagement with colleagues from many countries, particularly those around the Pacific Rim. I'm delighted that Prosun Bhattacharya of the Royal Institute of Technology (KTH) in Stockholm, Sweden, has agreed to serve as the division's first liaison to the GSA International Section.

(2) Continue Todd's work to make the division's offerings more relevant to hydrogeologists working outside academia and research institutes.

(3) Retain our current members and attract new members, particularly students and young professionals.

(4) Recognize the accomplishments of our colleagues by nominations for division and society awards.

I welcome your help in these efforts or however you feel motivated to contribute. Please e-mail me with your thoughts and suggestions.

Thanks—**Alan**



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 Fall issue is June 15, 2014.**

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Hydrogeology Division Luncheon and Awards Reception



The over 175 attendees of the Hydrogeology Division Luncheon and Awards Reception.

When describing the Hydrogeology Division Luncheon and Awards Reception I seem to always begin with the same statement: sold out event. This year was no exception. Over 175 tickets were sold for the event, and we had a packed house ready to mingle, eat and celebrate the accomplishments of the students and colleagues recognized at this year's reception. This year's event started out a little differently. John Moore donated an original 1932 USGS Division of Water Resources photo compilation that was auctioned off in support of the Division. After some competitive bidding, Ralph Davis of the University of Arkansas became the proud owner of this piece of Hydrogeologic history.



Todd Halihan auctioning off the 1932 USGS Division of Water Resources Photo Compilation donated by John Moore.

The awards ceremony began shortly after the luncheon with a presentation to those hydrogeology students receiving the GSA Outstanding Research Awards. These students

also receive the David M. Diodato Travel Grant from the Hydrogeology Division. This year 4 students received the award:

Scott Jasechko, University of New Mexico
Zachary Munger, Virginia Tech
Kristen Theesfeld, Illinois State University
Brett Woelber, University of Montana



Zachary Munger (top) and Brett Woelber (left) receiving their GSA Outstanding Research Awards

Please see [Luncheon](#) on page 6

Student Reception

As usual, the Hydrogeology Division's Student Reception was a well attended event, by both students and professionals. Free beer was available to the students through the David M. Diodato Beer Fund, and prizes were won by students competing in a trivia contest. These prizes were donated throughout the year by many generous companies, organizations and individuals. This year the students were given Thank You letters to send to donors after receiving a prize. Many filled these out at the reception. A complete list of donors is available on page 9. To make a donation for the 2014 reception please contact Kallina Dunkle (dunklek@apsu.edu).



Students form teams to compete in the trivia contest.



Eric Peterson handing out beer tickets to the students.



Todd Halihan hosts the trivia contest.



Division volunteers at the prize table.



Students write thank you notes to the generous donors of the trivia contest prizes.

70 Attend GSA Hydrogeology Division Legends Dinner

By Todd Halihan; Photos by Ed Harvey

As part of the 125th anniversary of GSA, the Hydrogeology Division hosted a dinner to celebrate the contributions of the members of the division. The dinner was held on Saturday night, Oct 26, 2013 in Denver at The Broker Restaurant.

The dinner celebrated the legends of our field with former division leaders and award winners joining us for food and variable density fluids (with associated contaminants). It was held in the basement of the building so that we were dealing with subsurface fluids.

Seventy division members and guests attended. We heard from division leadership for each decade of the division and were delighted to be joined by Ann Maxey Essex-Bankston, the daughter of founder George Burke Maxey, and James Wood LaMoreaux, the son of founder Phillip LaMoreaux. It was fantastic to hear about the start of the division from the children of those that made it happen. We did attempt to record these proceedings on video.



Ann Maxey Essex-Bankston (left) and Grover Emrich (right), speaking at the Legends Dinner.

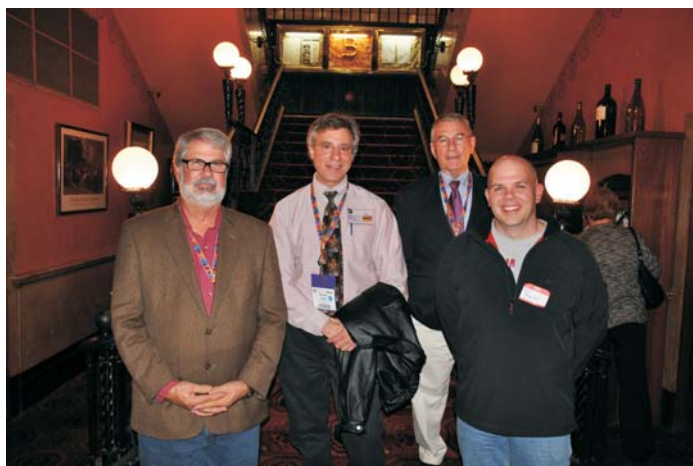
The night ended with photos of the various groups of people that attended including former division chairs, Birdsall-Dreiss lecturers, etc. It was a great night and truly impressive to see the people

who contributed to the division, many of them touched by or descended from Maxey and LaMoreaux.

Our thanks to John Hawley, Martin Mifflin and John Moore for helping with the dinner's theme. Our additional thanks to all the division members who supported the effort in various ways.



Division Chairs: (from front left) Bob Ritzi, Grover Emrich, Lenny Konikow, Jean Bahr, Kip Solomon, Jack Hess, Janet Herman, Bill Simpkins, Darryll Pederson, Carol Wicks, Don Siegel, Steve Ingebritsen, John Sharp, Chris Neuzil, Todd Halihan, Ed Harvey.



Division Secretary/Treasurers: (from left) Ralph Davis, Brian Katz, Darryll Pederson, Eric Peterson

Please see [Legends](#) on Page 7

Luncheon from page 3

The awards continued by recognizing both the outgoing and incoming Birdsall-Dreiss lecturers. Dani Or finished his tour with a lecture at the meeting, and Larry Band began his whirlwind year of travel and lectures.



The incoming Birdsall-Dreiss lecturer, Larry Band (left), accepts his award from Todd Halihan (middle) and the outgoing lecturer Dani Or (right).

The next award presented was the George Burke Maxey Distinguished Service award, presented to Scott Bair with citation by Laura Lautz.



Todd Halihan (left) presents Scott Bair (middle) with the 2013 George Burke Maxey Distinguished Service Award, with citationist Laura Lautz (right).

The next award presented was the second ever Kohout Early Career award. This award recognizes a distinguished early career scientist for outstanding achievement in contributing to the hydrogeologic profession through original research and service. The 2013 Kohout award was presented to Laurel Larsen, with citation by Jud Harvey.



Todd Halihan (right) presents the Kohout award to Laurel Larsen (middle), with citationist Jud Harvey (left).

The final award presented was the O.E. Meinzer award. The 2013 recipient of the award was Chunmiao Zheng, with citation by Mary Anderson.



Todd Halihan (right) presents the O.E.Meinzer award to Chunmiao Zheng (middle), with citationist Mary Anderson (left).



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



Birdsall-Dreiss Lecturers: (from front left) Dick Parizek, Jean Bahr, Chunmiao Zheng, Fred Phillips, Lenny Konikow, Kirk Nordstrom, Barbara Bekins, Steve Ingebritsen, Chris Neuzil, Don Siegel, Warren Wood.



Meinzer Awardees: (from front left) Chunmiao Zheng, John Sharp, Fred Phillips, Lenny Konikow, Steve Ingebritsen, Mary Anderson, Chris Neuzil, Don Siegel.



Maxey Distinguished Service Awardees: (from front left) Dick Parizek, Ralph Davis, Brian Katz, Ed Harvey, Mary Anderson, Janet Herman, Jean Bahr, Darryll Pederson, Don Siegel, Lenny Konikow, John Sharp.

Fashion at the Field Site

You may recall in the last edition of *The Hydrogeologist* that Todd Halihan discussed how to properly dress while doing field work. He discussed how vanity has no place at the field site, and demonstrated it with a photo and encouraged others to send in their field fashion tips and photos. Don Whittemore of the Kansas Geological Survey, sent in the following photo and advice:



“Regarding field wear to keep out the creeping, crawling critters, I purchase a one-piece white painter's suit in the hardware store that I can pull on over my clothes when the bugs are out. Although I don't duct tape it around my feet, I do use a heavy elastic band around my ankle and also spray with repellent to prevent the critters from crawling onto my leg (as well as my wrists, neck, and head). The advantage of the white suit in addition to keeping out the bugs is that the ticks can be easily seen and removed. Also, at the end of the field day, I can remove the painter suit and remove any ticks. This way I don't have to travel back from the field site in clothes to which ticks might be clinging.”

Thanks Don for the tips! If you have any fun field fashion advice, send it to andrea@kgs.ku.edu

Makauwahi Sinkhole, Kauai, HI

By Darryll Pederson

Congratulations to Chuck Blay of TEOK Investigations for correctly identifying the Makauwahi Sinkhole in Kauai, Hawaii as the Where in the World photo from the previous newsletter.

The Makauwahi sinkhole is located on the Mahaulepu Coast of the southeasternmost part of Kauai. The limestone (carbonate eolianite) is composed of dune sand originating from algal and coral reefs. The sinkhole is accessed via a small cave opening in the bank of an adjacent stream. The accumulated sediment in the sinkhole represents the complete paleontological and paleoecological record of human occupation of Kauai. Evidence of human activity can be gained by careful inspection of the photo. The small rock wall by Theresa is composed of volcanic rock carried into the sinkhole by a tsunami.



Makauwahi Sinkhole in Kauai, HI.

Useful at the Field Site: A Fishin' Shirt

By Todd Halihan

Well another field season is upon us, so the equipment recommendation for this issue is a good ol' fishin' shirt. I started down the road of field shirts when George Tsoflias from the University of Kansas told me to wear a long sleeve dress shirt in the field. It provided sun and insect protection and you would look somewhat formal when talking to landowners.

Over the years, I found that long sleeve fishin' shirts work even better, although you may not be as stylish in the field. The shirts made for fishermen are great for hydrogeology. They often have high UV protection built in and so are great for physical sun protection. They are light weight and have aeration in good places to keep you cool. If you end up in a creek, they dry quickly. You can buy them with permethrin built in or treat them to kill insects while you wear them. And finally, they cause you to lose less moisture over the day and thus you will be less likely to dehydrate (although you might start sweating a little earlier). I've had several cases of students drying out like raisins and wearing themselves out in short sleeves when I was still rolling along with long sleeves.



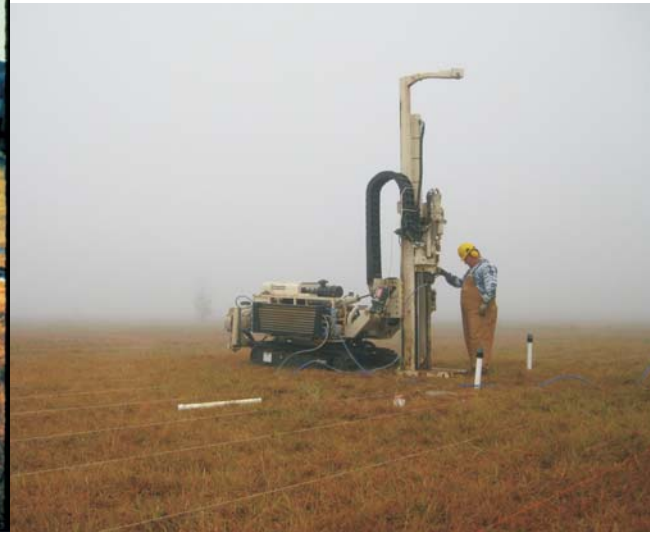
If you troll outdoor gear stores, they often have torn or faded ones that they are selling off. If you get dirty during your normal field work, just pretend you are wearing it for the second time. Or you can buy a nice new one and break it in.

Happy field work,

Todd



Where in the World?




This Edition's Photos:

In this edition we have two photos, a recent shot, and a more dated shot of the same field site.

Hint: Although not as famous as Cape Cod or Borden, this field site was MADE quite popular after being featured in a presentation during a fairly recent Birdsall-Dreiss lecture tour.

Send your guesses to andrea@kgs.ku.edu





Student Reception Donors







Student Reception

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Patricia Bobeck

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2014 GSA Annual Meeting

October 19-22, 2014
Vancouver, BC
Canada

www.geosociety.org/meetings/2014/

2014 Northeastern Section Meeting

March 23-25, 2014
Lancaster,
Pennsylvania

www.geosociety.org/Sections/ne/2014mtg

2014 North-Central Section Meeting

April 24-25, 2014
Lincoln, Nebraska

www.geosociety.org/Sections/nc/2014mtg

2014 South-Central Section Meeting

March 17-18, 2014
Fayetteville, Arkansas

www.geosociety.org/Sections/sc/2014mtg

2014 Southeastern Section Meeting

April 10-11
Blacksburg, Virginia

www.geosociety.org/Sections/se/2014mtg

2014 Rocky Mountain & Cordilleran Sections Meeting

May 19-21, 2014
Bozeman, Montana

www.geosociety.org/Sections/rm/2014mtg

From the Editor....

Welcome to the Winter 2014 edition of The Hydrogeologist! I hope this edition finds you safe and warm somewhere as wintry conditions seem to be plentiful this year.

The 125th Anniversary meeting in Denver was a huge success, not only for GSA but also for our Division. All of the Division events were very well attended, and heartily enjoyed by all. I hope the photos in this edition remind you of the fun you had, and prompt you to make plans to attend the next annual meeting, to be held in Vancouver, BC Canada.

As usual, if you have any comments or article ideas please pass them along to me at andrea@kgs.ku.edu.



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Secretary-Treasurer: Eric Peterson:

ewpeter@ilstu.edu

Past Chair: Todd Halihan:

todd.halihan@okstate.edu

Standing Committees

Technical Program Committee:

Ben Rostron (Chair), Chris Gellasch, Bill Sanford and Eliot Atekwana

Nominating Committee: Ed Harvey (Chair), Steve Ingebritsen, Todd Halihan

Meinzer Award Committee:

Graham Fogg (Chair), Kamini Singha, David Parkhurst, Chunmiao Zheng, Karen Johannesson

Birdsall-Dreiss Lecturer Committee:

Jay Famiglietti (Chair), Dani Or, Larry Band, Lenny Konikow, Kip Solomon

Maxey Distinguished Service Award

Committee: Mary Anderson (Chair), Brian Katz, Scott Bair

Kohout Early Career Award: Steve Van der

Hoven (Chair), Maddie Schreiber, Bayani Cardenas, Laurel Larson, Ward Sanford

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Cordilleran - Beth Weinman

Northeastern - Todd Rayne

North Central - Sue Swanson

South Central - Marcia Schulmeister

Rocky Mountain - Andrew Manning

Southeastern - Joe Donovan

International: Prosun Bhattacharya

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American Geophysical Union - Barbara Bekins

American Geological Institute - Dave Wunsch

National Ground Water Association - Bill Alley

International Assoc. of Hydrogeologists - Jack Sharp

Society for Sedimentary Geology - Gary Weissman

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