



Winter 2019 Issue 96

# The Hydrogeologist

Newsletter of the GSA Hydrogeology Division

## 2018 Annual Meeting Summary

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GSA's 2018 annual meeting was held Nov. 4<sup>th</sup>-7<sup>th</sup> in Indianapolis, Indiana. There were 5,268 attendees at the meeting, 401 of which were members of the Hydrogeology Division. The Division sponsored or co-sponsored 78 technical sessions at the meeting.

The Division's events for students were again very popular. The

undergraduate student poster session included over 20 presenters. More than 100 students enjoyed the student reception. We would like to extend a big thank you to the Diodato Beer Fund and the donors who provided the amazing prizes for the student reception. This generosity helps to make the annual meeting a memorable and meaningful event for the Division's students. A mentoring session for students was held again following the Division luncheon and business meeting. This mentoring session provided an opportunity for students to interact with mentors from academia, government, and industry.

Other Division events at the meeting included the annual luncheon and awards ceremony and the Birdsall-Dreiss lecture. More details about these events can be found on page 4.

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*We hope to see you in  
Phoenix in September  
for the 2019 Annual  
Meeting!*

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Technical Session proposal deadline: 20 February 2019

Short Course proposal deadline: 20 February 2019

Abstract submission deadline: 25 June 2019



Bill Cunningham,  
Chair GSA Hydrogeology Division

*Check out the new  
Division logo below!*



## Chair's Corner

As incoming Chair of the Hydrogeology Division, I'd like to thank our membership for the opportunity to serve this great Division, and thank you for your membership in GSA, and in the Division. I follow in the footsteps of an amazing group of past Division leaders, and I'm humbled by the opportunity. If you are not a Division member, it's easy to add from the GSA [website](https://community.geosociety.org/hydrodivision/home). It's only \$12, and GSA allows 1 free Division membership to students. Join now!

Thanks also to the members of our 2018-19 Division Management Board (MB)—Steve Van der Hoven (Past Chair), Ben Rostron (First Vice-Chair), Andrea Brookfield (Second Vice-Chair), Kallina Dunkle (Secretary-Treasurer), Tyler King and Martina Rogers (Student Representatives). The MB is indebted to Eric Peterson, who steps down from the critical Secretary-Treasurer position after 6 years of dedicated service. Thanks Eric! We'd also like to thank Abe Springer for 4 years on the MB, most recently as past Chair. Abe rides from the MB into the Flagstaff sunset this year.

We are also indebted to several others serving key leadership positions for the Division: Randy Stotler is our Joint Technical Program Chair for September's annual meeting in Phoenix; Mike Sukop continues as the Division webmaster; and Tara Root has graciously agreed to take on the Division newsletter duties this year, transitioning them from Andrea Brookfield who has done a wonderful job on the newsletter for 9 years. Thanks Andrea and Tara!

I'd also like to thank all others who serve as Division representatives, on Division committees, and at the annual meeting as session chairs, as student mentors, and as judges for the student poster session—it's the amazing group of volunteers like you who make this the best Division in GSA. We are always seeking new volunteers—as you can see there are many opportunities. You'll find a warm, welcoming environment with a time commitment of your own choosing, whether you work in academia, private industry, or government. Please reach out to any MB member for more information.

The MB had a flurry of activity at the end of last year, and we plan to continue that momentum. With the help of GSA, a new Division logo has arrived. We're testing new conflict of interest guidance for our awards committees in 2019 as a part of GSA's focus on ethics and integrity in science. Continued page 3.

### THE HYDROGEOLOGIST

The Hydrogeologist is a publication of the Hydrogeology Division of the Geological Society of America. It is published electronically three times a year to communicate news of interest to members of the Hydrogeology Division and can be accessed at: <https://community.geosociety.org/hydrodivision/home>. Members of the Hydrogeology Division who have electronic mail will receive notification of all new issues. Other members will receive paper copies.

Contributions and material are most welcome and should be directed to the Editor. **The deadline for the summer issue is June 1<sup>st</sup>, 2019.**

Tara Root, Editor  
The Hydrogeologist  
Department of Geosciences, Florida Atlantic University  
777 Glades Rd.,  
Boca Raton, FL 33431

Phone: (561)400-7719  
email: [troot@fau.edu](mailto:troot@fau.edu)

## Chair's Corner, continued from page 2

Our Division webpages have begun a bit of a facelift that will continue into 2019. We're discussing ways to improve our social media presence, our communication with students, and the interaction between the Division and GSA sections. If you have other recommendations for things for us to take on, let us know!

Division finances are also a focus this year, and I'd like to challenge our membership to consider donating to the variety of Division funds that support lectures, awards, and students. Click "[Donate](#)" at the top of the GSA web page and select any Division fund among the GSA options: Birdsall, Dreiss, or LaMareaux lectures; Hydro Student Research Grants; Diadato Student Travel and Beer fund; the Kohout award; or the new Tom Winter Grad Student Research award. These funds help enrich our hydro community and we need to support them to the extent we are able.

Lastly, a reminder that the annual [awards](#) deadline is February 1st, and the deadline for Technical Session [proposals](#) has been extended to February 20th. Please coordinate your session proposals with Randy Stotler (rstotler@ku.edu).

Bill

## Dr. Thomas C. Winter Graduate Student Research Award Announced

At the Hydrogeology luncheon at the 2018 Annual Meeting, a new fund was announced: the **Dr. Thomas C. Winter Graduate Student Research Award**. The fund is managed by the GSA Foundation and is named in honor of the late Dr. Thomas Winter. It will support research grants for graduate students working in hydrogeology/hydrology.

Dr. Winter enjoyed working with graduate students and supporting them during their work on his projects. During his own time in undergraduate and graduate school, he supported his family by working full-time with the USGS. He understood the challenges of pursuing college degrees and the financial support that is required. This fund is created in his memory to help graduate students pursue their passion for research and become future scientists. The fund will make it easier for graduate students to focus on their research and achieve their goals sooner by helping to offset some of the expense of college.

The fund needs to be built up before it can begin to support students. Please make your gift to the fund today through the [GSA Foundation](#).

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*To donate to the funds that support Division lectures, awards, and students, click "Donate" on the top of the GSA webpage and select one of the Division funds.*

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*Dr. Thomas C. Winter*





Students receive their awards at the luncheon. From left to right: Mark Higgins, 2018 Division Chair Steve Van der Hoven, Deon Knights, Amelia Nelson, Mary Plauche, and Devin Smith.



David Boutt (left) receives the Birdsall Dreiss award from 2018 Division Chair Steve Van der Hoven (right).



Jack Sharp (center) and Steve Van der Hoven present Todd Hallihan with the George Burke Maxey Distinguished Service Award.



Steve Van der Hoven (right) presents the Kohout Early Career Award to Scott Jasechko.

## 2018 Division Luncheon and Awards Ceremony

More than 120 people attended the Hydrogeology Division luncheon and awards ceremony at the Indianapolis meeting. Congratulations to the students who received GSA Outstanding Research Awards and the David M. Diodato Travel Grant. The 2018 awardees were:

- **Mark Higgins** (University of Connecticut, advisor: Gary Robbins)- Investigating farm related sources of arsenic in Connecticut groundwater utilizing DNA gene sequencing
- **Deon Knights** (The Ohio State University, advisor: Audrey Sawyer)- Quantifying nitrate attenuation in a coastal freshwater wetland.
- **Amelia Nelson** (The Ohio State University, advisor: Audrey Sawyer)- Hydrologic controls on streambed microbiology and geochemistry in an alpine river
- **Mary Plauche** (Kent State University, advisor: Anne Jefferson)- Stream burial and land cover influence on nitrate source and concentration in urban streams in Northeast Ohio
- **Devin Smith** (The Ohio State University, advisor: Anne Carey)- Water cycling on cultivated land: an investigation of the two water worlds hypothesis in central Ohio.

The Birdsall-Dreiss award was presented to the 2018 lecturer, **David Boutt**, and incoming lecturer, **Laura Crossey** was introduced. Information about Dr. Crossey's lecture tour can be found on the [Birdsall-Dreiss webpage](#). **Todd Hallihan** received the George Burke Maxey Distinguished Service Award. Jack Sharp presented the citation for Dr. Hallihan's award. The 2018 Kohout Early Career Award was presented to **Scott Jasechko** by Steve Van der Hoven. **Shemin Ge** was the recipient of the O.E. Meinzer Award. John Godt was the citationist for Dr. Ge's award. The International Association of Hydrogeologists presented its International Service Award to **Wendy Robertson**.

Congratulations to all the 2018 Award Winners!



Jim Lamoreaux, President of the U.S. National Chapter of the IAH presents the IAH's International Service Award to Wendy Robertson.



Shemin Ge receives the O.E. Meinzer Award. Standing with her are her citationist, John Godt, and Steve Van der Hoven, 2018 Division Chair.



Laura Rademacher congratulates Adam Ornelles from University North Carolina – Ashville on his winning poster presentation.



Don Siegel fires-up his team of students before the start of the trivia contest at the Student Reception.



A group of students named themselves Darcy's Demons and teamed up with Mike Sukop to compete in the trivia contest at the Student Reception.

## Division Events for Students at the Annual Meeting

The Division held its second annual Networking and Career Event at GSA's 2018 annual meeting. This event provides students an opportunity to meet and discuss career options with working hydrogeologists from industry, government, and academia. Approximately 75 students interacted with over 30 professionals at this event.

The 2018 Hydrogeology Division Student Reception provided another opportunity for students to interact with professionals, but in a lighthearted setting. The students enjoyed complimentary beer provided by the Diodato Beer fund while they competed in a hydrogeology trivia contest. Every student was a winner and went home with a prize provided by our generous donors. See page 6 for a list of our donors. To make a donation or volunteer to help out with the 2019 Student Reception, please contact Tara Root ([troot@fau.edu](mailto:troot@fau.edu)).

Congratulations to all the students who presented in the Hydrogeology Undergraduate Student Poster Session. It is always exciting to see the great work being done by our Division's up and coming members. The student posters were evaluated by a panel of volunteer judges, and the winners were announced at the Student Reception. The winners were:

- First place: Libby Quinn, Wheaton College – Identifying Factors of Groundwater Consumption Across the High Plains Aquifer
- Second place: Adam Ornelles – University of North Carolina, Ashville – Investigating the Role of Montmorillonite Clay on the Transport of Caffeine, Bisphenol A, Sulfamethoxazole, and Carbamazepine in Groundwater
- Third place: Kira Harris, The Ohio State University – Geomorphic and Sedimentological Controls on Hyporheic Flow in an Alpine River

### Want to know what's going on within the Division?

*To catch up on the latest events or find out how you can become more involved with our activities...*

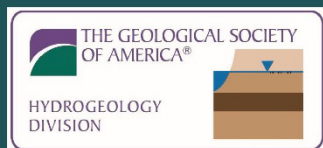
visit our website at:

<https://community.geosociety.org/hydrodivision/home>

or

join the GSA Hydrogeology Division Facebook group

## 2018 Student Reception Donors



The GSA Hydrogeology Division thanks the following donors  
for their generous contributions to the 2018 Student Reception:



Bob Sterret



The International Association  
of Hydrogeologists



University of Kansas W.M. Keck – NSF  
Paleoenvironmental & Environmental Laboratory

Steve Ingebritsen



The Geologic  
Society  
of  
London



## From the Editor

Welcome to the Winter 2019 edition of The Hydrogeologist. In this edition you will find a recap of Division events from the 2018 Annual GSA Meeting and deadlines for the 2019 Meeting. Remember that the 2019 meeting is earlier than usual this year – September 22<sup>nd</sup> – 25<sup>th</sup> in Phoenix, Az.

This is the first issue of the Hydrogeologist for which I am serving as editor. Andrea Brookfield has served for many years in this role and has done a fantastic job of sharing Division news with our members. She is continuing to serve the Division in her new role on the management board. Thank you, Andrea, for all the wonderful newsletters over the years and for helping me transition into this role.

You will notice that this issue of the newsletter has a new look. However, I have tried to keep the content consistent with that of past newsletters. I welcome comments, suggestions, and article submissions.

Tara Root ([troot@fau.edu](mailto:troot@fau.edu))

*To donate to the 2019  
Student Reception,  
contact Tara Root  
([troot@fau.edu](mailto:troot@fau.edu)).*



## Where in the World is This?



*Photo credit: Bill Cunningham*

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*Think you know where  
this is? Let me know by  
submitting your guess  
to: [troot@fau.edu](mailto:troot@fau.edu)*

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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 [troot@fau.edu](mailto:troot@fau.edu).

STUDENTS, WE WANT TO HEAR FROM YOU TOO!

## Where in the World was That?



*Whipping  
Waves  
of  
Lake  
Michigan*

*Photo credit: NPS*

The “Where in the World” in the last issue was a photo of the Lake Michigan shoreline at Central Beach Access Point at Indiana Dunes National Lakeshore. This photo was taken on a wintery December Day. Indiana Dunes National Lakeshore is located at the southern end of Lake Michigan, approximately 150 miles north of Indianapolis and 60 miles southeast of Chicago. Operated by the National Park Service, this National Lakeshore includes 15 miles of shoreline and encompasses 15,000 acres. The park offers visitors a chance to see wetlands, prairies and forests. Check out some of the artwork created by artists participating in the Indiana Dunes National Lakeshore Artist-in-Residence program.



*Artist credit: Upper right – Steven Walker, 2013; Lower left – Victor Pytko, 2010; Lower right – Susan Henshaw, 2011.*



## Important Dates

<b>Annual Meeting Technical Session</b>	20 Feb
<b>Proposal Deadline</b>	
<b>Annual Meeting Short Course</b>	20 Feb
<b>Proposal Deadline</b>	
<b>Northeastern Section Meeting</b>	17-19 March
<b>Joint Section Meeting</b> (South Central, North-Central, and Rocky Mountain)	25-27 March
<b>Southeastern Section Meeting</b>	28-29 March
<b>Cordilleran Section Meeting</b>	15-17 May

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## Hydrogeology Division Contacts

### 2019 Management Board

- **Chair:** William Cunningham, [wcunning@usgs.gov](mailto:wcunning@usgs.gov)
- **First Vice-Chair:** Ben Rostron, [benrostron@ualberta.ca](mailto:benrostron@ualberta.ca)
- **Second Vice-Chair:** Andrea Brookfield, [abrookfield@ku.edu](mailto:abrookfield@ku.edu)
- **Secretary-Treasurer:** Kallina Dunkle, [dunkle@apsu.edu](mailto:dunkle@apsu.edu)
- **Past-Chair:** Stephen Van der Hoven, [sjvanderhover@gmail.com](mailto:sjvanderhover@gmail.com)
- **Student Representatives:** Tyler King and Martina Rogers  
[tylerking@aggiemail.usu.edu](mailto:tylerking@aggiemail.usu.edu); [mroge044@fiu.edu](mailto:mroge044@fiu.edu)

### Standing Committees

- **Technical Program Committee:** Randy Stotler
- **Nominating Committee:** Madeline Schreiber (Chair), Alicia Wilson, Abe Springer
- **Meinzer Award Committee:** Andy Fisher (Chair), Don Rosenberry, Barbara Bekins, McKenna, Shemin Ge
- **Kohout Early Career Committee:** Steve Ingebritsen (Chair), Audrey Sawyer, Martin Briggs, Scott Jaschecko, Alicia Wilson
- **Maxey Distinguished Service Award Committee:** John Hess (Chair), Carol Wicks, Tod Halihan
- **Birdsall-Dreiss Lecturer Committee:** Ed Harvey, Susan Swanson, Holly Michael, Randy Hunt, David Boutt
- **Archives:** Jim Thomas

### Ad Hoc Committees

#### Section Representatives:

Cordilleran, Beth Weinman  
Northeastern, Todd Rayne  
North Central, Sue Swanson  
South Central, Marcia Schulmeister  
Rocky Mountain, Andrew Manning  
Southeastern, Jeffrey Wilcox  
International, Prosun Bhattacharya

#### Representatives to Other Societies:

American Geophysical Union, Barbara Bekins  
American Geosciences Institute, David Wunsch  
CUAHSI, Holly Michael  
National Groundwater Association, Bill Alley  
International Association of Hydrogeologists, Alan Fryar  
SEPM, Gary Weissman  
Soil Science Society of America, Michael Young

#### Communications:

Website Administrator, Mike Sukop  
Newsletter Editor, Tara Root

