



The Hydrogeologist

Summer 2024 Issue 111

Newsletter of the GSA Hydrogeology Division

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We hope to see you in Anaheim in September for GSA Connects 2024!



Photo from: <https://community.geosociety.org/gsa2024/travel/explore-anaheim>

GSA Connects 2024 will be in Anaheim, California September 22nd – 25th. As with the 2023 meeting, this year's meeting will be fully in-person. The themes for the 2024 meeting are Water in Our Changing World and Life Along an Active Margin. The detailed meeting schedule is not available yet, but as usual, some of the field trips and short courses will be held pre- and post-meeting. The next edition of The Hydrogeologist will include a detailed summary of the meeting schedule.

Because the meeting is earlier this year than usual (September instead of October), the abstract submission deadline, June 18th, is also earlier than usual. The Hydrogeology Division is sponsoring or co-sponsoring 40 topical sessions at the meeting (see p. 3). We encourage you to help make the sessions a success by submitting an abstract.

[Submit an abstract here](#)

As usual, there will be several Hydrogeology Division events on the Tuesday of the meeting including: the Division Awards Ceremony, the Division Business Meeting, the career networking and mentoring event for students, the Birdsall-Dreiss Distinguished and LaMoreaux International Lecture, and the student reception. Additionally, we are pleased to host the Darcy Lecturer again this year. The Division is also sponsoring two field trips this year: How Geology and Paleontology Helped Build the Magic of the Disneyland Resort, and Tar Pits Road Trip.

Registration for the meeting and the housing reservation system are already open and are available at the following links:

[Register for the meeting here](#)

[Book a hotel for the meeting here](#)

IMPORTANT DEADLINES FOR GSA CONNECTS 2024

- June 18th: Abstract submission deadline
- July 31st:
 - GSA Sections travel grants submission deadline
 - Early registration deadline
- August 28th: Housing reservation deadline
- September 4th: Standard registration deadline

Chair's Corner

Chris Carlson,
Chair,
GSA
Hydrogeology
Division



Dear Hydrogeology Community,

In the Mid-Atlantic, summer seems upon us. I hope you have had a good year to date. Your Division Management Board has been busy helping make sure hydrogeology had a presence at the 2024 Section Meetings, planning for the 2024 GSA Connects (including developing some new merch, which we plan to share in next newsletter), drafting some updates to our bylaws and rules and regulations, and planning our annual Division elections.

With this year's GSA Connects in Anaheim coming in September (22-25), the abstract deadline is June 18, 2024, which is coming up quickly. Our Division Joint Technical Program representatives, Marty Frisbee and Kathy Knierim, have helped line up a great program of over 40 topical sessions related to hydrogeology, including climate, karst, soils, managed and natural recharge, alpine, coastal, geophysics, and more. The Division is also supporting two field trips, two Pardee Keynote sessions, and our traditional discipline sessions. Your participation is integral to the success of these sessions. Please help showcase your work by submitting your abstract by midnight PT June 18!

Students: There are many great opportunities for you at GSA Connects, including mentor programs, career discussions, and student networking activities. Note that on the Tuesday afternoon of Connects (9/24 this year), your Division sponsors a mentoring program and a student reception. Please take advantage of these opportunities designed especially for you!

The annual Division elections are coming up shortly. The Division will have three positions up for election: 2nd Vice Chair, Diversity Equity and Inclusion Officer, and 1st Year Student Representative. In addition, with the 2023 inaugural of the Schwartz Award for Excellence in Mentoring and Education, you will be asked to approve bylaws changes that integrate the award into the Division's responsibilities along with some other minor changes. Please watch your email for your ballot and vote.

I invite the Division membership to join me in thanking the Management Board and our other volunteers for their continuing commitment to the Division and for their assistance with all of our activities. Thanks also to those of you who put together nominations for the Division awards and to those of you on the awards committees who evaluated the nomination packages. These folks have made my job as Chair much easier, and I greatly value and appreciate their efforts.

In closing, I hope you will be able to take some time this summer to relax and refresh. I hope to see you in Anaheim in September.

Chris Carlson

Stay current on developments in the Hydrogeology Division by joining our Facebook group, following us on Instagram, and tweeting us @GSAHydrogeology!

Facebook: <https://www.facebook.com/groups/93897080123/>

Instagram: https://www.instagram.com/gsa_hydrogeology/

Twitter: <https://twitter.com/GSAHydrogeology>

Division Sponsored/Co-Sponsored Topical Sessions at GSA Connects 2024

- T19. Environmental Geochemistry and Health.
- T21. Advances in Environmental Geochemistry: Honoring the Scientific Contributions of Charles N. Alpers.
- T27. Geoarchaeology of Landesque Capital: Current Research on Long-term Water and Soil Management.
- T40. Human Dimensions of Geoheritage.
- T47. Respectful Approaches in Geoscience Contexts for Supporting Indigenous Communities.
- T50. Advances in Arid Lands Geomorphology.
- T54. The Cryosphere & Mountain Hydrology, Past and Present and Future.
- T57. The Use of Geophysics to Explore and Investigate for Mineral, Hydrocarbon, and Water Resources.
- T59. Geophysical Studies in Africa: Tectonics, Geomorphology, and Groundwater and Resource Exploration.
- T60. Near Surface Geophysics to Solve Geological Problems.
- T67. Whither Geoscience?
- T72. Geoscience Outreach Involving Undergraduates and High School Students Continues to Pique Interest and Build Cohort: Revelations from Longitudinal Tracking 2004-2023.
- T78. Geoscience and Hydrology of Your Public Lands: STEM Internships, Research, Science, Mapping, Resource Management, and Education.
- T81. Advances in Groundwater Recharge and Unsaturated-Zone Hydrology: a Reflection on Rick Healy's Legacy.
- T82. A Showcase of Undergraduate Research in Hydrogeology.
- T83. Groundwater Pollution with Arsenic and Other Geogenic Legacy Contaminants, Related Health Risks and Management: Advancing Learning through Geospatial Tools, Machine Learning, Data Science, and Artificial Intelligence.
- T84. Fight or Flight? Mitigation Versus Adaptation in a Hotter, Drier Landscape.
- T85. Status of the Headwaters in our Changing World: Springs and Base Flow.
- T86. Coastal Hydrogeology in an Age of Rising Seas.
- T87. Surface Water-Groundwater Exchange Responses to Climate, Landuse, and Other Changes.
- T88. Use of Oil and Gas Production Wastes Outside the Oil Field: Lab, Field, and Modeling Studies of Potential Impacts.
- T89. Groundwater Recharge Processes in Regional Aquifers - Tracer, Geophysical and Modeling Approaches for Sustainable Groundwater Management.
- T90. Groundwater Monitoring by State Geological Surveys: The Backbone for Monitoring the Nation's Groundwater.
- T91. Groundwater Sustainability in Times of Climate and Human Uncertainties.
- T93. Groundwater - Surface Water Interaction: from Sediment-water Interface to Watersheds.
- T94. The Use of Managed Aquifer Recharge to Enhance Groundwater Supplies.
- T95. Using Geologic Context to Improve Hydrogeologic Characterizations.
- T96. Hydrogeology in Support of Integrated Water Management.
- T97. New Frontiers in Cave and Karst Science.
- T98. Karst Ecosystems and Biogeochemistry.
- T99. Karst Hazards and Monitoring.
- T100. Karst Hydrology and Hydrogeology.
- T101. Karst Sedimentary, Paleoclimate, and Historical Records.
- T103. Lakes of the World Through Time and Space — Archives of Climate,

List of Division-Sponsored/Co-sponsored Topical Sessions, Continued from Page 3.

- T104. Cenozoic Lakes Across Western North America – from the Varved Beds of the Green River Formation to the Ice-Covered Alpine Lakes of the Sierra Nevada.
- T150. Critical Zone Science: Intersection of Processes Linked to Geomorphology, Ecology and Climate.
- T151. Geologic Research in the Cascades: Understanding Glacier Change, Geologic Hazards, and Mountain Hydrology along an Active Margin in a Changing Climate.
- T155. Recent Advances in Soil and Paleosol Science.
- T156. Emerging Voices in Soil and Paleosol Science.
- T158. Using 3-D Geological Models to Explore Geologic Processes, Assess Natural Resources and Hazards, and Meet Societal Needs.

We also hope to see many of you at the following meeting events:

- A talk by Ben Rostron, the Division's 2024 Birdsall-Dreiss Distinguished and LaMoreaux International Lecturer
- A talk by Matt Becker, the National Groundwater Society's Darcy Distinguished Lecturer
- The Hydrogeology Division award ceremony (*no event ticket required; bring your own lunch*)
- The Hydrogeology Division business meeting
- The student mentoring and networking event
- The Hydrogeology Division student reception

We Are Gathering Prizes for the Hydrogeology Division Student Reception at GSA Connects

The Hydrogeology Division is continuing with its long tradition of soliciting donations of books, software, gift certificates, small field gear, etc. to give away as prizes at the student reception at GSA Connects. If you have something to donate or a suggestion for a potential donor that we should reach out to, contact Tara Root at troot1@gmail.com.

Secretary's Corner

By Cara Peterman-Phipps, PhD

A few notes and tidbits from the Secretary.

As our annual conference approaches, now is a good time to send out some information along with a few reminders.

The Division's annual awards ceremony on Tuesday is immediately preceded by a 'Bring Your Own Lunch' event where there is an opportunity for everyone to visit beforehand. GSA has told us that there will be food trucks located outside the venue and any food bought from there will be allowed into the conference center. Additionally, there will be some concessions stands open inside the center. Please make sure to bring your lunch with you to the room. As in years past, the Division will have some beverage and dessert options available. We are prohibited from bringing in food outside of those options.

The Career and Networking Event on Tuesday is looking for mentors with several years' experience in private industry and state and federal government. This event is very popular among students and young professionals as it's a chance to meet and talk with established professionals. If you are interested or know of someone who might be interested in being a mentor, please contact Cara Phipps at cphipps@usgs.gov.

Lastly, while we plan for our upcoming annual conference, it is a good time to start thinking about award nominations for 2026! Without your efforts to develop and submit nominations, the Division will not have awards to present.

I hope this finds you all doing well!

Kind regards, Cara

Section News: Get involved with GSA at your Section Meeting!

By Marcia Schulmeister, GSA Hydrogeology Division Section Representative Coordinator

Got an idea for a hydro-related GSA session? 2025 Sections meetings will take place in Arkansas, Pennsylvania, Utah, California, and Virginia. The call for oral and poster sessions was made on May 21st and will remain open for about 1 month. Your new 2024-2026 Hydrogeology Division Section Representatives are ready to discuss your ideas and to help populate your session. Their contact information is listed below.

Section - Meeting location - Date - Representative

- South-central - Conway, AR - Mar 10-12 - vacant
- North-central - Erie, PA - Mar 28-30 - vacant
- North-east - Erie, PA, Mar 28-30 - Patrick Burkart (patrick.burkhart@sru.edu)
- Rocky Mountain - Provo, UT - Mar 19-20 - Greg Carling (greg.carling@byu.edu)
- Cordilleran - Sacramento, CA – Ap 2-4 - Geoff Cromwell (gcromwell@usgs.gov)
- Southeast – Harrisburg, VA – Mar 20-21 – Steve Baedke (baedkesj@jmu.edu)
- International - Prosun Bhattacharya (prosun@kth.se)

DEI Information and News

By Sue Swanson, GSA Hydrogeology Division DEI Officer

GSA Hydrogeology Division guidelines for giving accessible presentations.

GSA Connects 2024 abstracts are due soon, and we'll all be preparing our presentations for the September meeting before we know it! Last year, the GSA Hydrogeology Division prepared guidelines for giving accessible presentations for use by our Birdsall-Dreiss and LaMoreaux Distinguished Lecturers. Please consider using the guidelines as you prepare your talk or poster for GSA Connects 2024. Their use will help ensure that presentations by Division members are readily accessible and as easy as possible for people with disabilities to read and understand. [You can find the guidelines here](#). Suggestions and improvements are welcome and can be sent to Sue Swanson (Diversity, Equity, and Inclusion (DEI) representative) at Sue.Swanson@wisc.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 hydrogeology community? A photo that you think would be good for our "Where in the World" feature? If so, why not publish it in the hydrogeologist? Send your submission ideas to troot@usgs.gov.

**STUDENTS, WE WANT TO
HEAR FROM YOU TOO!**

**Undergraduate students and recent grads,
we encourage you to present your research at GSA Connects 2024!**

Cash prizes will be awarded to the top three posters in the Hydrogeology Division's Showcase of Undergraduate Research (Session T. 82)

The [abstract submission](#) deadline is June 18th, 2024.

Please consider serving as a mentor at the annual meetings



To sign-up to be a mentor at one of GSA's mentoring events visit this [link](#).

To sign up as a mentor for the Division's Career and Networking Event, contact Cara Phipps at cphipps@usgs.gov.

Of note for Federal employees that have to wait for approval to register for meetings - you can sign up to mentor prior to registering for the conference.

From the Editor

Welcome to the Summer 2024 edition of The Hydrogeologist (no. 111). I hope you are enjoying the summer – it certainly feels like the summer heat has settled into South Florida. I intentionally chose a chilly scene for this edition's Where in the World (photo at right) to counteract the hot weather!

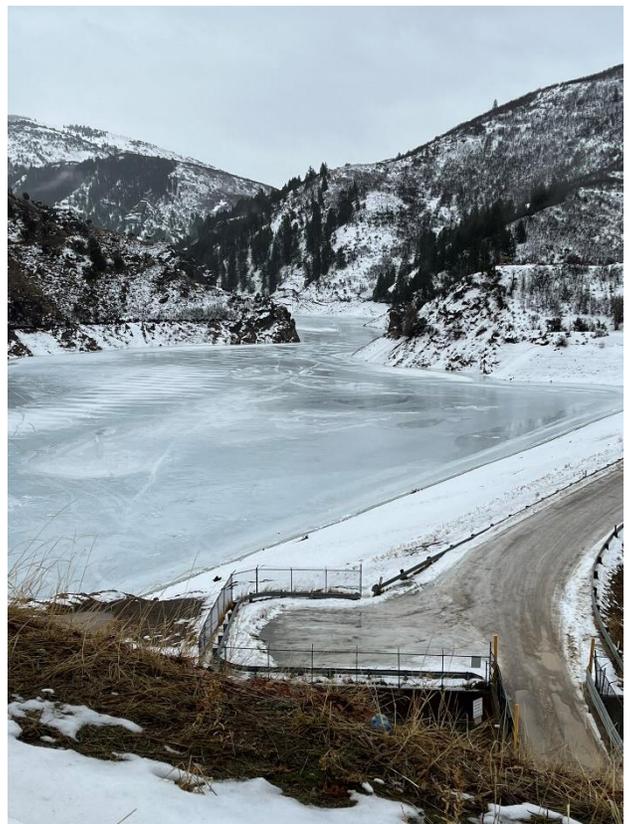
The Division's Management Board is busy planning for GSA Connects 2024. This edition of the newsletter contains important information about the meeting, and the next edition will include even more meeting-related announcements as well as a detailed schedule of Hydrogeology Division events at the meeting.

Over the past year, several of our Board members have initiated including regular features in the newsletter. I am very appreciative of these contributions - they help keep the newsletter relevant and provide an important avenue for the Board to communicate with the Division. This edition of the newsletter includes the first of another recurring piece, Secretary's Corner (p. 4), which communicates important updates from our Division Secretary.

As always, please feel free to send me any articles, photos, or suggestions for the next edition of the Hydrogeologist, which will be published in the fall.

Tara Root (troot@usgs.gov)

Where in the World is This?



Think you know where this is?
Email your guess to troot@usgs.gov.

Division elections are coming soon.

Keep an eye out for the ballot in your email and please vote.

Important Dates

- Deadline for [GSA Committee Nominations](#) **June 15, 2024**
- Deadline for [NPS Scientists in Parks \(SIP\)](#) applications for fall/winter positions **June 16, 2024**
- [GSA Connects 2024 abstract Deadline](#) **June 18, 2024**
- [Juneteenth](#) **June 19, 2024**
- Birthday of [GeoCorps™ America](#) **June 21, 2024**
- [AGeS-TRaCE program](#) opens to applications **Aug. 1, 2024**
- [37th International Geological Congress \(IGC\)](#) **Aug. 25-31, 2024**
- [GSA Connects 2024](#) **Sept. 22-25, 2024**
- [Association of Earth Science Editors \(AESE\)](#) 58th Annual Meeting **Oct. 2-6, 2024**
- Deadline for [AGeS-TRaCE](#) program **Oct. 8, 2024**
- [Earth Science Week](#) **Oct. 13-19, 2024**
- [International EarthCache Day](#) **Oct. 13, 2024**

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Important Announcement!!!
 If you paid for a lifetime membership, you still need to pay division dues to stay active in division spaces.

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 winter issue is August 2nd, 2024.

Tara Root, Editor
 The Hydrogeologist
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 Caribbean-Florida Water Science Center
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 Davie, FL 33314
 phone: 954-401-3921

Please consider donating to the GSA Hydrogeology Division!

Click on the **Donate!** button at the top of the division's [webpage](#).



GSA Hydrogeology Division

Hydrogeology Division Contacts

2023-2024 Management Board

- **Chair:** Chris Carlson (christopher.carlson@usda.gov)
- **First Vice-Chair:** Don Rosenberry (rosenber@usgs.gov)
- **Second Vice-Chair:** Richelle Allen-King (richelle@buffalo.edu)
- **Secretary:** Cara Peterman (Phipps.Cara@gmail.com)
- **Past-Chair:** Chris Gellasch (chris.gellasch@emich.edu)
- **Diversity, Equity, and Inclusion (DEI) Officer:** Sue Swanson (sue.swanson@wisc.edu)
- **Section Representatives Coordinator,** Marcia Schulmeister (mschulme@ku.edu)
- **Senior Student Representative:** Desire Piphus (piphusdm@gmail.com)
- **Junior Student Representative:** Megan Jones (megan_jones2003@yahoo.com)

Standing Committees

- **Technical Program Committee:** Chair-Marty D. Frisbee (mdfrisbee@purdue.edu), Vice Chair-Kathy Knierim (kknierim@usgs.gov), Past Chair – Paul Stackelberg (pestack@usgs.gov)
- **Nominating Committee:** Andrea Brookfield (andrea.brookfield@uwaterloo.ca), Chris Gellasch (chris.gellasch@emich.edu), Yu-Feng Lin (yflin@illinois.edu)
- **Meinzer Award Committee:** Mark Person (mark.peterson@nmt.edu), Holly Michael (hmichael@udel.edu), Beth Parker (bparker@uoguelph.ca), Carl Mendoza (carl.mendoza@ualberta.ca), Jimmy Jiao (jjiao@hku.hk)
- **Kohout Early Career Committee:** Sam Zipper (samzipper@ku.edu), Margaret Zimmer (mzimmer1@ucsc.edu), Chen Zhu (chenzhu@indiana.edu), Christa Kelleher (ckellehe@syr.edu)
- **Maxey Distinguished Service Award Committee:** Prosun Bhattacharya (prosun@kth.se), Eric Peterson (ewpeter@ilstu.edu), Clifford Voss (cvoss@usgs.gov)
- **Birdsall-Dreiss Lecturer Committee:** Ken Belitz (kbelitz@usgs.gov), Randy Stotler (randy.stotler@uwaterloo.edu), Yu-Feng Lin (yflin@illinois.edu), Barbara Bekins (babekins@usgs.gov), Abe Springer (Abe.Springer@nau.edu)
- **Schwartz Award Committee:** Alan Fryar (alan.fryar@uky.edu), Rachel Rotz (rrotz@fgcu.edu), Ken Bradbury (ken.bradbury@wisc.edu)
- **Archives:** Jim Thomas (Jim.Thomas@dri.edu)

GSA Councilor/Division Liaison Representative

Brian Katz (bg_katz@hotmail.com)

Ad Hoc Committees

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 North-central, vacant
 South-central, vacant
 Rocky Mountain, Greg Carling (greg.carling@byu.edu)
 Southeastern, Steve Baedke (baedkesi@jmu.edu)
 International, Prosun Bhattacharya (prosun@kth.se)

Representatives to Other Societies:

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 American Geosciences Institute, David Wunsch (dwunsch@udel.edu)
 CUAHSI, Holly Michael (hmichael@udel.edu)
 National Groundwater Association, Bill Alley (walley@ngwa.org)
 International Association of Hydrogeologists, Jack Sharp (jmsharp@mail.utexas.edu)
 SEPM, Gary Weissman (weissman@unm.edu)
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