Program Book

Themes:
Diverse Science for a Sustainable Future
Climate and Energy Transition
Field Excursions to the Appalachian Plateaus and the Valley and Ridge for GSA Connects 2023

Edited by Brett T. McLaurin

This volume offers guides for GSA Connects 2023 in Pittsburgh, Pennsylvania, USA, that cover a diverse range of geologic time and processes from the Paleozoic to Recent. Chapters address Paleozoic and Pleistocene glaciation; the interplay of geology and climate in shaping the landscape; and aspects of cultural geology, including Frank Lloyd Wright’s Fallingwater and the setting of Youngstown, Ohio.

FLD066, 248 p., ISBN 9780813700663
IN PRESS
The city of Pittsburgh is located on the unceded lands of the Shawandasse Tula, the Osage peoples, the Monangahela peoples, and the Seneca peoples, and were later joined by refugees of other tribes who were forced off of their lands and displaced by European colonists. We acknowledge these early stewards of this land, their elders both past and present, as well as future generations.

We encourage all GSA Members and meeting attendees to learn about the past history and the present status of the people whose lands you live and work on.

Welcome from GSA’s President

I’m excited to welcome you to GSA Connects 2023, 15–18 Oct., in Pittsburgh, Pennsylvania. Pittsburgh, at the confluence of three major American rivers, is an historic city with a modern vibe, which makes it an excellent venue for our meeting.

This meeting affords many opportunities for scientific engagement and networking with colleagues. Themes for Connects 2023 center around *Diverse Science for a Sustainable Future* and the *Climate and Energy Transition*, with numerous sessions focused on these important topics. As always, there will be groundbreaking symposia and topical sessions across all the geoscience disciplines. The exhibit hall will be a lively space with our vendors and sponsors. We have a wealth of field trips available, including excursions to see caverns and karst, explore Paleozoic stratigraphy in the Appalachian Basin, and even examine the connections between geology and architecture at Frank Lloyd Wright’s Fallingwater.

Our Pardee Symposia will cover a wide range of issues, from critical minerals to the future of waste management. There’s also as an important session on encouraging positive mental health in the geosciences. This year’s Halbouty Distinguished Lecture will be delivered by Susan Brantley, who will discuss fracking and its impacts on our water. On Sunday morning (15 Oct.), consider joining the “Outdoor Afro & GSA Riverwalk!” for a leisurely riverwalk and casual discussion of the geosciences with Outdoor Afro, a national organization dedicated to reconnecting Black people and Black communities to nature.

At the Awards Ceremony, we’ll celebrate the outstanding achievements of our GSA members and fellows, from early career professionals to senior scientists. My presidential address will focus on “geoscience at the confluence.” The geosciences sit squarely at confluence of time and place, which makes our field rather unique. It’ll be a wide-ranging talk that highlights the joy of scientific discovery. If you can, take time out of your meeting to join the GSA community and attend the Awards Ceremony—it’ll be time well spent.

Enjoy GSA Connects 2023 and the city of Pittsburgh.

Thanks, and see you soon.

Christopher “Chuck” M. Bailey
GSA President
Welcome from GSA’s Executive Director and CEO

Dear Esteemed Members, Guests, and Colleagues,

As the new Executive Director and CEO of The Geological Society of America, it’s a true privilege to welcome you, alongside president Christopher “Chuck” M. Bailey, to GSA Connects 2023. We are here to celebrate the vibrant tapestry of geological sciences, gathered in the spirit of community, learning, and growth. This year’s themes, *Diverse Science for a Sustainable Future* and *Climate and Energy Transition*, speak to the timely and critical issues that unite us all.

This year has been a transformative one for GSA, and those changes are palpably reflected in this meeting, heralding a new era of possibilities, engagement, and excellence.

**Revitalized Membership Experience**

At the heart of our Society are its members—you. To acknowledge this, we have put an added emphasis on membership with exclusive benefits. The newly expanded GSA HQ Pavilion now showcases all 22 of GSA’s scientific divisions, serving as a nexus for diverse scientific dialogues, collaborations, and professional opportunities. As a special feature, new and renewing members will receive an exclusive bag featuring art from renowned geology artist Ray Troll.

**Technology and Branding Upgrades**

We have deployed technology upgrades designed to augment your attendee experience. Our new marketing initiative, “Learning to Legacy,” is conceived to underline the idea that regardless of your career stage in the geosciences—from students to seasoned experts—your community is right here at GSA.

**Mental Wellness: A Core Concern**

This year, we are also leading the charge on an often overlooked yet immensely crucial issue—mental wellness in the scientific community. Advancing science and fostering a sense of inclusive community starts and ends with practitioners at their best, both mentally and emotionally.

**Inclusion and Sustainability**

At the core of this year’s theme is the unity of diverse scientific thought, focused on the ambitious but essential goals of sustainability and energy transition. Our panel discussions, workshops, and presentations are geared toward instigating transformative conversations and inspiring actionable insights.

It is our sincere hope that this meeting serves as your first glimpse into a reinvigorated GSA—a society deeply committed to its members and the broader scientific community. Your presence here is a testament to your role in this incredible journey that we undertake as a collective.

Thank you for being a part of GSA Connects 2023. Let us venture together into a future replete with scientific discovery, personal growth, and meaningful change.

Warm regards,

[Signature]

EXECUTIVE DIRECTOR AND CEO
Thank You Sponsors and Partners!*

Your support of GSA Connects 2023 continues a long-standing tradition of serving science and the profession. The Society appreciates your investment in the growth of current and future leaders in the geoscience community.

*as of 8 September 2023

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* denotes in-kind
Greetings from the General Co-Chairs

We are pleased to welcome you to Pittsburgh for GSA Connects 2023! Pittsburgh is a city built on geology and steeped in history. Located at the point where the Monongahela and Allegheny rivers join to form the Ohio, this confluence forms a part of human history spanning millennia. The nearby massive sandstone overhangings of the Meadowcroft Rockshelter preserve records of Indigenous activity dating back 19,000 years, and ancient Adena burial mounds rise in conical symmetry from local landscapes. In colonial times, the strategically located settlement started its life as a series of five forts: Prince George (British, 1754); Duquesne (French, 1754); Pitt (British, 1758); Mercer, temporary during construction of Fort Pitt; and Lafayette (American, 1792). The city grew on the backs of river commerce, coal, and steel. The rich Pittsburgh Coal seam lies below the city, but the higher parts of the Pennsylvanian-age section are displayed in steep cliffs and hillsides throughout the city. The rugged topography along the three rivers leads to a transportation system that is a web of bridges and tunnels and that can also lead to a high incidence of landslides. Pittsburgh is truly an engineering marvel. A ride on the Incline up Mount Washington or a river cruise on the Gateway Clipper will give you a first-hand feel for the landscape.

The city you are visiting is much different from the last time Pittsburgh hosted the GSA Annual Meeting in 1959. Coal and steel have ceded prominence to natural gas, carbon and energy storage, technology, education, and medicine. The legacy lives on, though, in the many art, cultural, and educational resources associated with industrialists Andrew Carnegie and Henry Clay Frick, banker Andrew Mellon, and food manufacturer H.J. Heinz.

If you want a break from the meeting, you can find many fine museums that fit a variety of interests, including the avant-garde pop art of Pittsburgh native Andy Warhol, whose namesake museum is located within walking distance of the meeting venue. The heritage of European immigrants who came to mine coal and make steel lives on in great ethnic restaurants, especially German, Polish, and Italian. A stroll down Smallman Street in the nearby Strip District not only affords a cacophony of sights, smells, and all the black-and-gold attire you never knew you needed, but also offers a glimpse into the melting pot of cultures that shapes the city’s history. Pittsburgh has a great food scene, from sandwich shops like Primanti Brothers (fries right on the sandwich!) to brats to fine dining, with local breweries and distilleries for something to wash it all down. If you have time to get out of town, Ohiopyle State Park with its Class 3 whitewater, Frank Lloyd Wright’s Fallingwater, and the Drake Well Museum chronicling the birth of the petroleum industry are all an hour or two away, along with any number of other great hikes, parks, and historic sites.

Our meeting venue, the David L. Lawrence Convention Center, sits just 100 yards from the point on the Allegheny River where William Clark launched his newly constructed keelboat and sailed down the Ohio to join Meriwether Lewis and begin their Corps of Discovery Expedition into the wild expanses of the western territories. It is with that spirit of intrepid exploration, inquiry, and discovery that we welcome you to Pittsburgh for GSA Connects 2023.

Yinz have a good time!

Gale Blackmer  
Pennsylvania  
State Geologist  
GSA Connects 2023  
General Co-Chair

Jessica Moore  
West Virginia  
State Geologist  
GSA Connects 2023  
General Co-Chair
Information Pages
(in alphabetical order)

DLCC—David L. Lawrence Convention Center

Accommodation and Services

All-Day Poster Sessions
DLCC, Hall B
Sun.–Wed., 8 a.m.–5:30 p.m.
Posters can be viewed all day, with presenting authors at their posters from either 9–11 a.m. or 3:30–5:30 p.m. Presenters can set up their posters starting at 7:30 a.m. on the day of presentation. Presentation times will be listed in the program.

Business Center
The closest business center is located one block from the DLCC at 960 Penn Avenue. For additional information, please call the local FedEx branch at +1-412-391-2014.

Campus Connection
DLCC, Hall A
Sun., 5–7 p.m.
Mon.–Tues., 10 a.m.–6:30 p.m.
Wed., 10 a.m.–2 p.m.

Coat and Luggage Check
DLCC, Concourse B
Sun.–Wed., 7:30 a.m.–6:30 p.m.

Coffee Breaks
DLCC
Sun., 9:30 a.m. (while supplies last) in Hall B
Mon.–Wed., 9:30 a.m. (while supplies last) in Halls A and B
Coffee will also be available for purchase at concessions.

Continuing Education Units
GSA Connects offers an excellent opportunity to earn CEUs toward your general continuing education requirements for your employer or K–12 school. Please check the meeting website after the meeting to download your CEU certificate. One CEU is a nationally recognized unit of achievement that is based on 10 contact hours of learning.

First Aid and Emergency Services
GSA is committed to providing a safe and secure meeting environment. The following are suggestions for how you can protect yourself in situations that may occur during the meeting. Always remember that if it is a life-threatening emergency, dial 911. If you are within the convention center or hotel, please notify a staff member or building employee to avoid delays with emergency responders. If an emergency or situation occurs at any time during the meeting and you need additional assistance from GSA, please go to the GSA Registration Desk and notify a GSA staff member. Once 911 has been notified, advise your event manager or the Security Control Room by calling +1-412-325-6193. The Security Control Room is staffed 24 hours a day.

Pittsburgh Police Department, 2000 Centre Ave.: +1-412-255-2827
UPMC Mercy Hospital, 1400 Locust St.: +1-412-232-8111

Gender-Neutral Bathrooms
Gender-neutral bathrooms can be found in between every set of Male/Female stalls on every floor in the David L. Lawrence Convention Center.

GSA HQ Pavilion
Resource & Innovation Center, Hall A
Sun., 5–7 p.m.
Mon.–Tues., 10 a.m.–6:30 p.m.
Wed., 10 a.m.–2 p.m.
Purchase GSA books, donate to the GSA Foundation, become a member, and find out more about GSA programs.

GeoCareers Corner
Room 403/404/405
Sun.–Tues., 9 a.m.–5 p.m.
Drop-in mentoring, résumé review, career presentations, games, and coloring to relax.

Icebreaker
DLCC, Ballroom Gallery
Sat., 5–7 p.m.
Join thousands of industry professionals, students, academics, Divisions, and Associated Societies to kick off GSA Connects 2023.

Internet
Wi-Fi is complimentary in the Resource & Innovation Center and lobbies.

Information/Lost & Found Desk
DLCC, Concourse A
Sat., 7 a.m.–7 p.m.
Sun., 6:30 a.m.–6:30 p.m.
Mon.–Wed., 7 a.m.–4:30 p.m.
Each year, many items are left at the convention center after the meeting ends. We encourage you to check at the Information/Lost & Found Desk if you lose something or find something that is not yours. After the Information/Lost & Found Desk closes each day, items are transferred to the Security Office. After the meeting, these things come home to the GSA headquarters in Boulder, Colorado; we would like to return your things to you before then!
Lodging Information Assistance
If you have any issues with your hotel reservation during the meeting, please call +1-800-521-7845 (U.S. toll free) or +1-801-214-7276 (international) during regular hours of operation.
Sat., 2–6 p.m.
Sun., 10 a.m.–6 p.m.
Mon.–Fri., 7 a.m.–6 p.m.
If you have issues outside of these hours, please contact your hotel’s manager on duty.

Mothers’ Room
A mothers’ room is available on the second level of the DLCC. A phone is provided at the room’s entrance to call a security guard to come and unlock the room. To protect the privacy of the individuals using this room, keys will not be provided.

Newsroom
DLCC, Room 409
Sun.–Wed., 7:30 a.m.–6 p.m.
The GSA newsroom will provide a workspace for registered media representatives and public information officers only. Media should register and pick up badges and related information at the main Registration Desk.

Recycling and Sustainability
In furtherance of our mission to promote stewardship of Earth, GSA works continuously to minimize the environmental impacts associated with the planning and execution of all our meetings. To help meeting attendees who are committed to making GSA Connects 2023 a sustainable event, GSA offers the option for attendees to purchase carbon offset credits for their travel to/from Pittsburgh. The purchase of carbon offsets represents a reduction in emissions from a specific energy project to offset those created by air/auto travel. These carbon emission reduction projects would not be possible without the financial resources that your purchases provide. You can purchase credits during your registration process or after, by returning to your registration and adding them on (similar to adding on a field trip or short course), or purchase them onsite at the meeting. For more information, visit community.geosociety.org/gsa2023/registration/carbon.

Registration Desk
DLCC, Concourse A
Sat., 7 a.m.–7 p.m.
Sun., 6:30 a.m.–6:30 p.m.
Mon.–Tues., 7 a.m.–4:30 p.m.
Wed., 7 a.m.–2:30 p.m.
Badges are required for access to all activities beginning on Sat., 14 Oct., and should be visible at all times.

• The guest or companion registration fee per person is available for non-geologist spouses or friends of professional and/or student meeting registrants.
• Check in at the on-site Registration Desk to purchase tickets for ticketed functions. Tickets are subject to availability.
• GSA cannot provide refunds for on-site registration or ticketed/special event sales.
• Attendees who have been notified that they should receive a ribbon for their badge should pick it up at the GSA ribbon board located by the Registration Desk.

Resource & Innovation Center
DLCC, Hall A
Sun., 5–7 p.m. (includes the opening reception)
Mon.–Tues., 10 a.m.–6:30 p.m.
Wed., 10 a.m.–2 p.m.

RISE & Events Code of Conduct Office
DLCC, Room 322
Sun., Tues., and Wed.: 8:30–11 a.m. and 1:30–4 p.m.
Mon.: 8:30–11 a.m. and 4:30–6 p.m.
If the office staff is not available or you want to make a report outside of these hours, please send an email to ethics@geosociety.org.

Self-Care Rooms
DLCC, Room 337 and Room 338
To gain access to the self-care rooms, please stop by the Registration Desk. You will be required to leave your ID and provide your cell phone number; a staff member will accompany you to the room to unlock it.

Speaker Ready Room
DLCC, Room 309
Sat., 8 a.m.–8 p.m.
Sun.–Tues., 6:30 a.m.–6:30 p.m.
Wed., 6:30 a.m.–1:30 p.m.
If your presentation is on
Sat., 15 Oct.
Mon., 16 Oct.
Tues., 17 Oct.
Upload no later than
8 p.m. Sat., 14 Oct.
6:30 p.m. Sun., 15 Oct.
6:30 p.m. Mon., 16 Oct.
6:30 p.m. Tues., 17 Oct.

Student Volunteer Office
DLCC, Room 402
Fri., 7 a.m.–5 p.m.
Sat.–Wed., 7 a.m.–6 p.m.
Special Lectures

President Address
Christopher “Chuck” Bailey,
“Geoscience at the Confluence”
Sun., 15 Oct., noon–1:30 p.m.

The GSA Connects 2023 meeting in Pittsburgh, Pennsylvania, occurs at the confluence of the Allegheny and Monongahela rivers, which come together to become the mighty Ohio River. Using confluence as a metaphor, the Presidential Address will place the geosciences at the confluence of time and place. This wide-ranging talk will highlight the joy of discovery in geoscience research and its relevance for understanding our home planet and the future.

2023 Michel T. Halbouty
Distinguished Lecture

Susan L. Brantley, “How Fracking Affects Our Water”
Tues., 17 Oct. 12:15–1:15 p.m.

“Fracking” of horizontal layers of shale at great depths has ushered in a new era of energy development in the United States. At the same time, shale-gas development has impacted water quality in some locations. In the mid-2000s, public outcry about fracking and water quality reached a fever pitch. Today, the pushback continues but is more muted. In this talk I will look at what has been learned over the last two decades about water impacts related to shale gas development (including fracking), with emphasis on geospatial analysis as well as case studies. Much of this talk will focus on Pennsylvania, a state with the longest history of commercial oil extraction in the world, but some observations will also be made about the national situation. Government, universities, and private industry must work more closely with communities to document impacts and understand case examples of water contamination. Only with such approaches will geologists and hydrogeochemists enable the public to make educated decisions about the “social license” for the industry at the same time that our practitioners learn to understand the public’s viewpoint on this distributed industry.

Noontime Lectures

Mon., 16 Oct., 12:15–1:15 p.m.

The ocean is rising into coastal communities because of human-caused warming. Ice loss from Antarctica and Greenland is contributing, and could accelerate in the future. History and physics show that warming melts ice, and that too much warming can trigger rapid iceberg calving. Modern visitors to Glacier Bay in Alaska can now sail more than 60 miles into a fjord that held ice up to a mile thick when George Vancouver visited in 1794, and many other fjords have similarly “unzipped” into their mountains or ice sheet. If retreat of this type is triggered in any of the major Antarctic basins holding far more ice, more than 10 feet of additional sea-level rise could occur in the following century or less. Despite rapid scientific advances, large uncertainties remain. This presentation will explore the solid and speculative issues on sea-level rise.

Patrick A. Burkhart, “East Palestine, Ohio: Train Derailment and Chemical Incineration”

Events of the early February 2023 train derailment and ensuing circumstances will be presented and discussed by Patrick A. Burkhart, Ph.D., Hydrogeologist, Slippery Rock University of Pennsylvania.
Pardee Keynote Symposia

All Pardee Keynote Symposia, listed here in chronological order, take place in Pittsburgh Ballroom B/C at the David L. Lawrence Convention Center. Each session will be transcribed on-screen in real time.

Mon., 16 Oct., 8 a.m.–noon
Endorsers: History of Earth Sciences Society (HESS); GSA History and Philosophy of Geology Division

P2. Spotlight on Positive and Diverse Female Role Models.
Mon., 16 Oct., 1:30 p.m.–5:30 p.m.
Endorsers: Association for Women Geoscientists; GSA Continental Scientific Drilling Division; GSA Energy Geology Division; GSA Environmental and Engineering Geology Division; GSA Geoarchaeology Division; GSA Geobiology and Geomicrobiology Division; GSA Geochronology Division; GSA Geoinformatics and Data Science Division; GSA Geology and Society Division; GSA Geophysics and Geodynamics Division; GSA Hydrogeology Division; GSA Karst Division; GSA Limnogeology Division; GSA Marine and Coastal Geoscience Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA Planetary Geology Division; GSA Quaternary Geology and Geomorphology Division; GSA Soils and Soil Processes Division

Sponsored by Subaru

Tue., 17 Oct., 8 a.m.–noon
Endorsers: GSA Geology and Society Division; GSA Energy Geology Division; GSA Environmental and Engineering Geology Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA Geology and Public Policy Committee; Securing America’s Future Energy (SAFE) Center for Critical Minerals Strategy; International Association for Promoting Geoethics

P4. Encouraging Positive Mental Health in the Geosciences.
Tue., 17 Oct., 1:30 p.m.–5:30 p.m.
Endorsers: International Association for Geoscience Diversity; U.S. National Committee for Geological Sciences; U.S. National Committee for Psychological Sciences; U.S. National Committee for Soil Sciences; U.S. National Committee for Quaternary Research; U.S. National Committee for Geodesy and Geophysics; GSA Continental Scientific Drilling Division; GSA Environmental and Engineering Geology Division; GSA Geoarchaeology Division; GSA Geochronology Division; GSA Geoinformatics and Data Science Division; GSA Geology and Health Division; GSA Geology and Society Division; GSA Geophysics and Geodynamics Division; GSA Geoscience Education Division; GSA Hydrogeology Division; GSA Limnogeology Division; GSA Marine and Coastal Geoscience Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA Planetary Geology Division; GSA Quaternary Geology and Geomorphology Division

Wed., 18 Oct., 8 a.m.–noon
Endorsers: GSA Environmental and Engineering Geology Division; GSA Energy Geology Division; GSA Geology and Health Division; GSA Geology and Society Division; GSA History and Philosophy of Geology Division; GSA Hydrogeology Division; GSA Soils and Soil Processes Division

Special Session

Are We Alone in the Universe? The Science and Strategies to Search for Evidence of Past Life on Earth, the Solar System, and Beyond
In Memory of Jack Farmer—Father of Exopaleontology, Face of Astrobiology, Teacher to Thousands Around the World

Poster Session: Sun., 15 Oct., 8 a.m.–5:30 p.m., David L. Lawrence Convention Center, Hall B
Presenters available 9–11 a.m.

Oral Session: Sun., 15 Oct., 1:30–5:30 p.m., David L. Lawrence Convention Center, Room 335

Advocates: Maria Farmer, Alice Baldridge, Nicholas Lang, Sherry Cady

Endorsers: GSA Planetary Geology Division; GSA Geobiology Geomicrobiology Division. ExxonMobil, NASA/Jet Propulsion Lab

From microbes to Mars, paleontology to planetary protection, science education to a strategy for solar system exploration. The legacy of one man’s works chipped away at the centuries-old question: Are we alone in the universe? Following Jack’s comprehensive approach to his work that integrated what seemed like disparate fields into a unified interdisciplinary approach that revolutionized the search for life in the universe and influenced the creation of groundbreaking fields in space exploration such as astrobiology and exopaleontology.
Respectful, Inclusive Scientific Events (RISE)

Let’s work together to make this event safe and professional, creating an atmosphere where all participants feel welcome and can count on being treated with dignity and respect. Here are some simple tips we can all follow to make this a Respectful, Inclusive Scientific Event (RISE):

**Show Respect**
- Keep questions concise and on topic.
- Be considerate and listen with an open mind.
- Be constructive—critique ideas, not people.
- Avoid saying or doing anything that is or is likely to be perceived as harassment or bullying.

**Speak Up and Act Responsibly**
- Read and comply with GSA’s Events Code of Conduct.
- Ask questions or report concerns—openly or anonymously—to our third-party hotline provider via:
  - Internet: geosociety.ethicspoint.com
  - Phone: +1-844-237-8688
  - Mobile: geosociety.navexone.com
- Direct any questions or concerns to ethics@geosociety.org or any GSA staff member or RISE Liaison. You also may visit GSA’s RISE & Events Code of Conduct Office during the meeting.

GSA takes all concerns seriously and will respond promptly and fairly to evaluate and address potential issues, as appropriate, to keep this event safe and professional.

**RISE & Events Code of Conduct Office**
DLCC, Room 322
Sun., Tues., and Wed.: 8:30–11 a.m. and 1:30–4 p.m.
Mon.: 8:30–11 a.m. and 4:30–6 p.m.
GeoCareers Corner
15–17 October
9 a.m.–5 p.m., Room 403/404/405

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<th>Career Presentations</th>
<th>Résumé Review Clinic</th>
<th>Drop-In Mentoring</th>
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<td>Early Career</td>
<td>Navigating a Professional Meeting</td>
<td>Women in Geology Program</td>
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<td>Professional Coffee</td>
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<td>Networking Event</td>
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<td>View Job Postings</td>
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GeoCareers Day
15 October
9 a.m.–1 p.m., Ballroom A

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<th>Career Workshop</th>
<th>Mentoring Roundtables</th>
<th>Panel Lunch</th>
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Talk with organizations and company representatives at their booths!

Network with students from other universities by sharing ideas and resources at GSA Connects on Tuesday, 17 Oct. from 9–10 a.m. in Room 403/404/405 (GeoCareers Corner). GSA is creating events specifically for geology clubs, attend for more information!
Joint Technical Program
Committee Representatives

2023 Technical Program Chair: Patrick Albert Burkhart
2023 Technical Program Vice-Chair: Kevin Lee Mickus

Associated Societies
Association of Earth Science Editors: Monica Gaiswinkler
Easton
Council on Undergraduate Research Geosciences Division:
Elizabeth A. Heise, Claire McLeod
Geochemical Society: Frank Ramos
GeoScience Information Society: Robert Tolliver
Mineralogical Society of America: Philip Brown
National Association of Geoscience Teachers: Katherine Ryker
Paleontological Society: John Warren Huntley, Sarah M. Jacquet, James D. Schiffbauer, Rene A. Shroat-Lewis
Society of Economic Geologists: Thomas Monecke
Society for Sedimentary Geology: Howard Harper

GSA Scientific Divisions
Continental Scientific Drilling Division: Michael M. McGlue
Energy Geology Division: Marc L. Buursink, Denise J. Hills
Environmental and Engineering Geology Division: Francis Kevin Rengers, Anne C. Witt, Ann M. Youberg
Geoarchaeology Geology Division: Samantha Marie Krause, Scott H. Pike
Geobiology and Geomicrobiology Division: Brandt M. Gibson, Lydia Schiavo Tackett
Geochronology Division: Brad E. Rosenstein, Eugene Szymanski
Geoinformatics and Data Science Division: Denise J. Hills, Andrew Alexander Zaffos
Geology and Health Division: Reto Giere, Laura Suzanne Ruhl
Geology and Society Division: M. Scott Harris, James A. Heller
Geophysics and Geodynamics Division: Shannon A. Dulin, Anjana K. Shah
Geoscience Education Division: Larry Collins, Elizabeth Gammel-Kenders, Katherine Ryker, Sydney Donohoe Steele
History and Philosophy of Geology Division: Patricia Bobeck, Renee M. Clary

Hydrogeology Division: Paul Stackelberg
Karst Division: Daniel Jones
Limnogeology Division: Kirsten M. Menking, Scott W. Starratt
Marine and Coastal Geoscience Division: Scott W. Starratt, Lauren T. Toth
Mineralogy, Geochemistry, Petrology and Volcanology Division: J. Alex Speer, Alan Whittington, Elisabeth Widom
Planetary Geology Division: Samuel Birch, Debra Buczkowski, Jennifer L. Piatek
Quaternary Geology and Geomorphology Division: Arjun M. Heimsath, Bradley G. Johnson, Mark R. Sweeney
Sedimentary Geology Division: William Thomas Jackson, Jr., Edward Matheson
Soils and Soil Processes Division: Emily Jane Beverly, Lauren A. Michel
Structural Geology and Tectonics Division: Ramon Arrowsmith, Eric Cowgill, John Selwyn Singleton

Representatives at Large
GSA International Member Community: Mary S. Hubbard
Paleoclimatology and Paleoceanography: Miriam E. Katz
Precambrian Geology: Gregory Dumond
Traditional Ecological Knowledge: Kenneth D. Ridgway

Annual Program Committee Representatives
Tiffany Rivera
Matthew Brueseke
Patrick Burkhart
Robinson Cecil
Kristen Cook
Saugata Datta
Miquela Ignalls
Kevin Mickus
Abhijit Mukherjee
Oywande Ojo
William Sager
TRIVIA

Test your geoscience knowledge by finding all the trivia displays posted around GSA Connects 2023!

Want to know the answer?

Visit the GSA Membership Booth in the Resource & Innovation Center and ask our membership team!

SCAVENGER HUNT

Starting in the Resource & Innovation Center, scan the first QR code at the entrance.

Follow the clues to find the remaining QR codes.

Insider Tip: QR codes may not be in plain sight, you may have to ask an exhibitor for help!

PLAY AND WIN
GREAT PRIZES

JOIN OR RENEW YOUR MEMBERSHIP AT THE GSA MEMBERSHIP BOOTH (HALL A/B) & GET A FREE RAY TROLL TOTE BAG!

AT GSA, MEMBERS GET MORE!
Exhibitors

Alphabetical by category

Education and Environment
American Geosciences Institute, Booth 715
American Museum of Natural History, Booth 1234
Association of State Boards of Geology (ASBOG), Booth 1130
Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI), Booth 409
EarthScope Consortium, Booth 612
IUGS Deep-time Digital Earth (DDE), Booth 418
Pennsylvania Council of Professional Geologists, Booth 1215
Scientific Ocean Drilling Lamont-Doherty Earth Observatory, Booth 1231
Western Science Center, Booth 420
Yellowstone Bighorn Research Association (YBRA), Booth 734

Gems/Mineral Dealers/Jewelry
IKON Mining & Exploration, Booth 1011

Government Agencies
NASA / National Aeronautics & Space Administration, Booth 605
National Park Service, Booth 712
National Science Foundation, Booth 1027
U.S. Geological Survey, Booth 713

GSA Associated Societies
AASP - The Palynological Society, Booth 414
American Institute of Professional Geologists (AIPG), Booth 1128
Association for Women Geoscientists, Booth 1221
Association of American State Geologists (AASG), Booth 1129
Association of Earth Science Editors (AESE), Booth 816
Cushman Foundation, Booth 413
European Geosciences Union (EGU), Booth 635
International Association for Geoscience Diversity, Booth 1127
National Association of Geoscience Teachers, Booth 513
National Cave and Karst Research Institute, Booth 811
Paleontological Research Institution, Booth 419
SEPM Society for Sedimentary Geology, Booth 626
Sigma Gamma Epsilon, Booth 914
The Geological Society of London, Booth 613
The Paleontological Society, Booth 412

GSA Headquarters & Divisions
Located in the center of the Headquarters Pavilion:
GSA Bookstore, Foundation, Membership, and Opportunities

Division tables are located around the perimeter of the Headquarters Pavilion
GSA Continental Scientific Drilling Division, Table 1
GSA Energy Geology Division, Table 2
GSA Environmental & Engineering Geology Division, Table 3
GSA Geoarchaeology Division, Table 4
GSA Geobiology & Geomicrobiology Division, Table 5
GSA Geochronology Division, Table 6
GSA Geoinformatics & Data Science, Table 7
GSA Geology & Health Division, Table 8
GSA Geology & Society Division, Table 9
GSA Geophysics & Geodynamics Division, Table 10
GSA Geoscience Education Division, Table 11
GSA History & Philosophy of Geology Division, Table 12
GSA Hydrogeology Division, Table 13
GSA Karst Division, Table 14, and Booth 814
GSA Limnogeology Division, Table 15
GSA Marine & Coastal Geoscience Division, Table 16
GSA Mineralogy, Geochemistry, Petrology, and Volcanology (MGPV) Division, Table 17, and Booth 634
GSA Planetary Geology Division, Table 18
GSA Quaternary Geology & Geomorphology Division, Table 19
GSA Sections 2024, Booth 920
GSA Sedimentary Geology Division, Table 20
GSA Soils & Soil Processes Division, Table 21
GSA Structural Geology & Tectonics Division, Table 22

Instrumentation, Supplies, and Software
ASC Scientific, Booth 517
Blue Ridge Scientific Materials, Booth 916
Bruker Corporation, Booth 707
Brunton International LLC, Booth 821
Carl Zeiss Microscopy, LLC, Booth 504
Carlson Software, Inc., Booth 911
Continental Scientific Drilling Facility, Booth 818
Emriver, Inc., Booth 1010
Estwing Manufacturing Company, Booth 407
Field Environmental Instruments, Booth 1227
Forestry Suppliers, Inc., Booth 519
Geophysical Survey Systems, Inc (GSSI), Booth 617
Guideline Geo, Booth 1220
Isomass Scientific Inc., Booth 719
Isotopx Inc., Booth 1120
Macroscopic Solutions, Booth 1017
Proto Manufacturing, Booth 819
Rigaku Americas Corp., Booth 621
SciAps, Inc., Booth 505
Sensors & Software, Inc., Booth 1121
Thermo Fisher Scientific, Booth 721
Vapor Pin Enterprises, Inc., Booth 1119
Wingfield Scale & Measure, Booth 1228

Publications, Maps, Films
Cambridge University Press, Booth 812
East View Companies, Booth 919
GeoScienceWorld Booth 520
McGraw-Hill, Booth 1016-1017
Micropaleontology Press, Booth 417
Mountain Press Publishing Company, Booth 508
Oxford University Press, Booth 918
Pearson, Booth 619
Springer Nature, Booth 917
Treatise on Invertebrate Paleontology, Booth 421
W.W. Norton & Company, Inc., Booth 1126
Waveland Press, Booth 817
Services (Exploration, Laboratories, Consulting, and Others)
Beta Analytic Inc, Booth 521
EarthChem, Booth 921
Environmental Isotope Laboratory, Booth 717
GeoSep Services, Booth 1113
Iceland Geology Tours, Booth 1021
National Experienced Workforce Solutions, Booth 1229
ODM - Mineral Extraction Division, Booth 405
RIzzo International, Inc., Booth 406

Universities/Schools
Auburn University - Department of Geosciences, Booth 1035
Baylor University, Booth 834
Central Washington University, Booth 1140
Duquesne University School of Science & Engineering, Booth 1142
East Carolina University, Booth 1138
Indiana University Department of Earth and Atmospheric Sciences, Booth 910
Kansas State University, Booth 1235
Louisiana State University, Department of Geology & Geophysics, Booth 935
Miami University, Booth 1044
Missouri State University (GGP Department), Booth 945
Missouri University of Science and Technology, Booth 939
Oklahoma State University, Booth 838
Oregon State University, Booth 1134
Rice University, Booth 936
San Diego State University, Booth 1036
School for International Training, Booth 1243
South Dakota School of Mines and Technology, Booth 718
Syracuse University, Booth 1043
Texas A&M - Galveston, Booth 1041
Texas A&M University, Booth 1034
Texas Tech University, Booth 1037
University of Alaska Anchorage, Booth 1143
University of California - Davis, Earth & Planetary Sciences, Booth 743
University of Connecticut - Department of Geosciences, Booth 1039
University of Florida Geological Sciences, Booth 1038
University of Houston, Booth 938
University of Idaho, Booth 1136
University of Kansas, Booth 1237
University of Kentucky, Booth 1040
University of Michigan, Booth 1137
University of Minnesota, Earth and Environmental Sciences, Booth 841
University of Mississippi, Booth 739
University of Missouri, Booth 937
University of Nevada, Las Vegas, Booth 835
University of North Dakota, Booth 1042
University of Oklahoma, Booth 836
University of Pennsylvania, Booth 1131
University of Pittsburgh, Booth 1239
University of Southern California, Booth 1236
University of Texas at Dallas, Booth 737
University of Texas at San Antonio, Booth 940
University of Wisconsin - Madison, Booth 1045
University of Wisconsin - Milwaukee, Booth 1141
Vanderbilt University, Booth 837
Virginia Tech Department of Geosciences, Booth 941
West Virginia University, Booth 839
Western Michigan University, Booth 1139
## Alphabetical Listing of Events

### DLCC—David L. Lawrence Convention Center

<table>
<thead>
<tr>
<th>HOST NAME</th>
<th>EVENT NAME</th>
<th>DATE</th>
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<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSA Hydrogeology Division</td>
<td>Birdsall-Dreiss and LaMoreaux International Distinguished Lecture Series</td>
<td>17 Oct</td>
<td>5–6 p.m.</td>
<td>DLCC, Room 406</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Connects 2023 Icebreaker</td>
<td>14 Oct</td>
<td>5–7 p.m.</td>
<td>DLCC, Concourse A / B</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Conversations and Collaborations</td>
<td>16 Oct</td>
<td>4:30–6:30 p.m.</td>
<td>DLCC, Hall A</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Drop-In Mentoring</td>
<td>15 Oct</td>
<td>10 a.m.–3 p.m.</td>
<td>DLCC, Room 403 / 404 / 405</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Early Career Professional Coffee</td>
<td>16 Oct</td>
<td>9–10 a.m.</td>
<td>DLCC, Room 403 / 404 / 405</td>
</tr>
<tr>
<td>GSA DEI</td>
<td>Ethnicity and Identity Meetup: GeoCommunidad</td>
<td>15 Oct</td>
<td>2–3:30 p.m.</td>
<td>DLCC, Room 410</td>
</tr>
<tr>
<td>GSA DEI (Cosponsored by AAPiG)</td>
<td>Ethnicity and Identity Meetup: Asian American and Pacific Islander in Geoscience</td>
<td>16 Oct</td>
<td>4:30–6 p.m.</td>
<td>DLCC, Room 410</td>
</tr>
<tr>
<td>GSA DEI</td>
<td>Ethnicity and Identity Meetup: Black in Geo</td>
<td>17 Oct</td>
<td>4:30–6 p.m.</td>
<td>DLCC, Room 410</td>
</tr>
<tr>
<td>GSA DEI</td>
<td>Ethnicity and Identity Meetup: Indigenous and Native American in Geoscience</td>
<td>15 Oct</td>
<td>3:30–5 p.m.</td>
<td>DLCC, Room 410</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GeoCareers Corner</td>
<td>15 Oct</td>
<td>8 a.m.–5 p.m.</td>
<td>DLCC, Room 403 / 404 / 405</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GeoCareers Day <em>Ticketed Event</em></td>
<td>15 Oct</td>
<td>9 a.m.–1 p.m.</td>
<td>DLCC, Ballroom A</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GeoCareers Networking Event</td>
<td>16 Oct</td>
<td>11:30 a.m.–1 p.m.</td>
<td>DLCC, Room 403 / 404 / 405</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Geology Club Meet-Up</td>
<td>17 Oct</td>
<td>9–10 a.m.</td>
<td>DLCC, Room 403 / 404 / 405</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Global Geosciences Societies Meeting</td>
<td>18 Oct</td>
<td>8–9:30 a.m.</td>
<td>The Westin Pittsburgh Hotel, Westmoreland East</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Annual Program Committee Meeting</td>
<td>17 Oct</td>
<td>7–8 a.m.</td>
<td>DLCC, Room 412</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Best Student Geologic Mapping Competition</td>
<td>16 Oct</td>
<td>1–3 p.m.</td>
<td>DLCC, Hall B</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Communications Interview Room</td>
<td>15 Oct – 18 Oct</td>
<td>7:30 a.m.–5 p.m.</td>
<td>DLCC, Room 313</td>
</tr>
<tr>
<td>The Geological Society of America HQ</td>
<td>GSA Council Meeting: Saturday Morning Session</td>
<td>14 Oct</td>
<td>7:30 a.m.–12:15 p.m.</td>
<td>The Westin Pittsburgh Hotel, Pennsylvania Ballroom</td>
</tr>
</tbody>
</table>

(continued...)
### Alphabetical Listing of Events

**DLCC—David L. Lawrence Convention Center**

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<th>HOST NAME</th>
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<tr>
<td>The Geological Society of America</td>
<td>GSA Diversity in the Geosciences and On To the Future Alumni Reception</td>
<td>17 Oct.</td>
<td>6:30–8 p.m.</td>
<td>The Westin Pittsburgh Hotel, Westmoreland</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Diversity in the Geosciences Committee Meeting</td>
<td>16 Oct.</td>
<td>1–2:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Somerset West</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Division Chairs Business Meeting</td>
<td>14 Oct.</td>
<td>1–5 p.m.</td>
<td>The Westin Pittsburgh Hotel, Pennsylvania Ballroom</td>
</tr>
<tr>
<td>The Geological Society of America Publications Department</td>
<td>GSA Editorial Luncheon and Summit</td>
<td>16 Oct.</td>
<td>11:30 a.m.–1:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Cambria</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Fireside Chats Circle Sunday</td>
<td>15 Oct.</td>
<td>5–7 p.m.</td>
<td>DLCC, Hall A</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Fireside Chats Circle Monday</td>
<td>16 Oct.</td>
<td>10 a.m.–6:30 p.m.</td>
<td>DLCC, Hall A</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Fireside Chats Circle Tuesday</td>
<td>17 Oct.</td>
<td>10 a.m.–6:30 p.m.</td>
<td>DLCC, Hall A</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Fireside Chats Circle Wednesday</td>
<td>18 Oct.</td>
<td>10 a.m.–2 p.m.</td>
<td>DLCC, Hall A</td>
</tr>
<tr>
<td>GSA Foundation</td>
<td>GSA Foundation Penrose Circle and Student Awards Reception <em>Invitation Only</em></td>
<td>16 Oct.</td>
<td>5:30–7:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Westmoreland West/Central</td>
</tr>
<tr>
<td>GSA Geology and Public Policy Committee</td>
<td>GSA Geology and Public Policy Committee Meeting</td>
<td>14 Oct.</td>
<td>11:30 a.m.–5 p.m.</td>
<td>The Westin Pittsburgh Hotel, Fayette</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Geo-Teach Workshop</td>
<td>15 Oct.</td>
<td>8 a.m.–4 p.m.</td>
<td>The Westin Pittsburgh Hotel, Pennsylvania West</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Group Alumni Reception</td>
<td>16 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>GSA International (Cosponsored by International Interdisciplinary Interest Group (IIIG))</td>
<td>GSA International-Hosted Business Meeting</td>
<td>15 Oct.</td>
<td>8:30–9:30 a.m.</td>
<td>The Westin Pittsburgh Hotel, Crawford East</td>
</tr>
<tr>
<td>GSA International (Cosponsored by International Interdisciplinary Interest Group (IIIG))</td>
<td>GSA International-Hosted Reception: Welcome Attendees</td>
<td>16 Oct.</td>
<td>6:30–8:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Butler</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Noontime Lecture: East Palestine, Ohio: Train Derailment and Chemical Incineration</td>
<td>18 Oct.</td>
<td>12:15–1:15 p.m.</td>
<td>DLCC, Ballroom B/C</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Pardee Keynote Symposium P1: Land of Our Ancestors Submerged by a Lake of Betrayal</td>
<td>16 Oct.</td>
<td>8 a.m.–noon</td>
<td>DLCC, Ballroom B/C</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Pardee Keynote Symposium P2: Spotlight on Positive and Diverse Female Role Models</td>
<td>16 Oct.</td>
<td>1:30–7 p.m.</td>
<td>DLCC, Ballroom B/C</td>
</tr>
</tbody>
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<tr>
<td>The Geological Society of America</td>
<td>GSA Pardee Keynote Symposium P3: Addressing Society’s Urgent Need for Critical Minerals: From Policy to Practice</td>
<td>17 Oct.</td>
<td>8 a.m.–noon</td>
<td>DLCC, Ballroom B/C</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Pardee Keynote Symposium P4: Encouraging Positive Mental Health in the Geosciences</td>
<td>17 Oct.</td>
<td>1:30–5:30 p.m.</td>
<td>DLCC, Ballroom B/C</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Pardee Keynote Symposium P5: Past, Present, and Future of Waste Management</td>
<td>18 Oct.</td>
<td>8 a.m.–noon</td>
<td>DLCC, Ballroom B/C</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Presidential Address and Awards Ceremony: Christopher “Chuck” Bailey, “Geoscience at the Confluence”</td>
<td>15 Oct.</td>
<td>noon–1:30 p.m.</td>
<td>DLCC, Ballroom B/C</td>
</tr>
<tr>
<td>The Geological Society of America HQ</td>
<td>GSA President’s Reception <em>Invitation Only</em></td>
<td>15 Oct.</td>
<td>6:30–8:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Westmoreland</td>
</tr>
<tr>
<td>The Geological Society of America Publications Department</td>
<td>GSA Publications Committee</td>
<td>14 Oct.</td>
<td>1:30–4:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Cambria</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Resource and Innovation Center Opening Reception</td>
<td>15 Oct.</td>
<td>5–7 p.m.</td>
<td>DLCC, Hall A</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Section Meeting Roundtable Discussion</td>
<td>17 Oct.</td>
<td>2–3:30 p.m.</td>
<td>DLCC, Room 412</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Session Chair Orientation</td>
<td>14 Oct.</td>
<td>3–4 p.m.</td>
<td>DLCC, Room 306 / 307</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA Student Volunteer Technical Session Coordinator Training</td>
<td>14 Oct.</td>
<td>3–3:30 p.m.</td>
<td>DLCC, Room 306 / 307</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA/AGI Joint Meeting</td>
<td>16 Oct.</td>
<td>1–3:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Pennsylvania Ballroom</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>GSA/GSAF Audit Committee Meeting</td>
<td>13 Oct.</td>
<td>noon–4 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>GSA Foundation</td>
<td>GSAF Board Meeting Fall 2023</td>
<td>14 Oct.</td>
<td>8 a.m.–4 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny II</td>
</tr>
<tr>
<td>GSA Hydrogeology Division</td>
<td>Henry Darcy Distinguished Lecture</td>
<td>16 Oct.</td>
<td>5–6 p.m.</td>
<td>DLCC, Room 406</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Honoring GSA’s Lifetime Members <em>Invitation Only</em></td>
<td>16 Oct.</td>
<td>7–8 a.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>HQ Pavilion</td>
<td>15 Oct.</td>
<td>5–7 p.m.</td>
<td>DLCC, Hall A</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>LGBTQIA+ Social</td>
<td>17 Oct.</td>
<td>7:30–9 p.m.</td>
<td>The Westin Pittsburgh Hotel, Pennsylvania West</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>New GSA Members: Welcome Coffee</td>
<td>15 Oct.</td>
<td>7–8 a.m.</td>
<td>DLCC, Allegheny Overlook</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Open Mic Session</td>
<td>16 Oct.</td>
<td>noon–1 p.m.</td>
<td>DLCC</td>
</tr>
<tr>
<td>The Geological Society of America/Mark Little (Cosponsored by Outdoor Afro Pittsburgh)</td>
<td>Outdoor Afro &amp; GSA Riverwalk!</td>
<td>15 Oct.</td>
<td>9:45–11:30 a.m.</td>
<td>DLCC, East Lobby</td>
</tr>
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## Alphabetical Listing of Events

**DLCC—David L. Lawrence Convention Center**

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<tr>
<td>The Geological Society of America</td>
<td>Penrose and Thompson Field Forum Town Hall</td>
<td>16 Oct.</td>
<td>noon–1 p.m.</td>
<td>DLCC, Room 333</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Penrose Circle Lounge <em>Invitation Only</em></td>
<td>15 Oct.</td>
<td>8 a.m.–4 p.m.</td>
<td>DLCC, Alcove A</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Poster Hall: Authors Present Sun.–Wed. 9–11 a.m. or 3:30–5:30 p.m.</td>
<td>15 Oct. –18 Oct.</td>
<td>8 a.m.–5:30 p.m.</td>
<td>DLCC, Hall B</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Presidential Photoshoot with Fellows</td>
<td>15 Oct.</td>
<td>10:30–11:45 a.m.</td>
<td>DLCC, Ballroom B/C</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Résumé/CV Review</td>
<td>15 Oct. –17 Oct.</td>
<td>10 a.m.–3 p.m.</td>
<td>DLCC, Room 403 /404 /405</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Rivers of Steel: Explorer Riverboat Cruise <em>Ticketed Event</em></td>
<td>17 Oct.</td>
<td>4:30–6:30 p.m.</td>
<td>Explorer Riverboat</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Special Presentation Area Poster Hall</td>
<td>15 Oct.</td>
<td>7:30 a.m.–6:30 p.m.</td>
<td>DLCC, Hall B</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Student and Early Career Night at the Museum <em>Ticketed Event</em></td>
<td>15 Oct.</td>
<td>7–9:30 p.m.</td>
<td>Senator John Heinz History Center</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Success in Publishing</td>
<td>15 Oct.</td>
<td>noon–1:30 p.m.</td>
<td>DLCC, Room 403 /404 /405</td>
</tr>
<tr>
<td>The Geological Society of America</td>
<td>Women in Geology Reception</td>
<td>16 Oct.</td>
<td>5:30–7 p.m.</td>
<td>DLCC, Ballroom B/C</td>
</tr>
</tbody>
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### GSA DIVISIONS

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<tr>
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<tr>
<td>GSA Continental Scientific Drilling Division</td>
<td>GSA Continental Scientific Drilling Division Town Hall and Reception</td>
<td>15 Oct.</td>
<td>6:30–8 p.m.</td>
<td>DLCC, Room 413/414</td>
</tr>
<tr>
<td>GSA Energy Geology Division</td>
<td>GSA Energy Geology Division Banquet and Awards Reception</td>
<td>17 Oct.</td>
<td>6–7:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Fayette</td>
</tr>
<tr>
<td>GSA Environmental and Engineering Geology Division</td>
<td>GSA Environmental and Engineering Geology Division Business Meeting</td>
<td>15 Oct.</td>
<td>8–11 a.m.</td>
<td>DLCC, Room 411</td>
</tr>
<tr>
<td>GSA Environmental and Engineering Geology Division</td>
<td>GSA Environmental and Engineering Geology Division Awards Ceremony and Happy Hour <em>Ticketed Event</em></td>
<td>17 Oct.</td>
<td>5:30–7:30 p.m.</td>
<td>DLCC, Room 325</td>
</tr>
<tr>
<td>GSA Environmental and Engineering Geology Division</td>
<td>Virtual Field Trip: Overview of Environmental and Engineering Geology</td>
<td>14 Oct.</td>
<td>8 a.m.–5 p.m.</td>
<td>Omni William Penn Hotel</td>
</tr>
<tr>
<td>GSA Geoarchaeology Division</td>
<td>GSA Geoarchaeology Division Business Meeting and Awards Ceremony</td>
<td>16 Oct.</td>
<td>5:45–7:30 p.m.</td>
<td>DLCC, Room 411</td>
</tr>
<tr>
<td>GSA Geobiology and Geomicrobiology Division</td>
<td>GSA Geobiology and Geomicrobiology Division Awards Ceremony</td>
<td>16 Oct.</td>
<td>noon–1:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Westmoreland Central</td>
</tr>
<tr>
<td>GSA Geochronology Division</td>
<td>GSA Geochronology Division Business Meeting and Reception</td>
<td>17 Oct.</td>
<td>6–8 p.m.</td>
<td>DLCC, Room 330</td>
</tr>
<tr>
<td>GSA Geochronology Division</td>
<td>GSA Geochronology Division Board Meeting</td>
<td>15 Oct.</td>
<td>5:30–7:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Pennsylvania East</td>
</tr>
<tr>
<td>GSA Geology and Health Division</td>
<td>GSA Geology and Health Division Business Meeting and Awards Luncheon</td>
<td>16 Oct.</td>
<td>Noon–1 p.m.</td>
<td>The Westin Pittsburgh Hotel, Washington</td>
</tr>
</tbody>
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<thead>
<tr>
<th>HOST NAME</th>
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<th>LOCATION</th>
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<tbody>
<tr>
<td>GSA Geology and Society Division</td>
<td>GSA Geology and Society Division Board and Membership Meeting</td>
<td>15 Oct.</td>
<td>3–5 p.m.</td>
<td>The Westin Pittsburgh Hotel, Crawford East</td>
</tr>
<tr>
<td>GSA Geophysics and Geodynamics Division</td>
<td>GSA Geophysics and Geodynamics Division Business Meeting and George Woollard Lecture</td>
<td>16 Oct.</td>
<td>noon–1 p.m.</td>
<td>DLCC, Room 329</td>
</tr>
<tr>
<td>GSA Geoscience Education Division</td>
<td>GSA Geoscience Education Division Educator’s Reception</td>
<td>16 Oct.</td>
<td>6–9 p.m.</td>
<td>Olive or Twist</td>
</tr>
<tr>
<td>GSA History and Philosophy of Geology Division</td>
<td>GSA History and Philosophy of Geology Division Student Luncheon</td>
<td>17 Oct.</td>
<td>noon–1 p.m.</td>
<td>The Westin Pittsburgh Hotel, Butler West</td>
</tr>
<tr>
<td>GSA History and Philosophy of Geology Division</td>
<td>GSA History and Philosophy of Geology Division Business Meeting</td>
<td>17 Oct.</td>
<td>5–6:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Somerset West</td>
</tr>
<tr>
<td>GSA Hydrogeology Division</td>
<td>GSA Hydrogeology Division Management Board Meeting I</td>
<td>15 Oct.</td>
<td>11 a.m–1:30 p.m.</td>
<td>DLCC, Room 412</td>
</tr>
<tr>
<td>GSA Hydrogeology Division</td>
<td>GSA Hydrogeology Division’s BYOL and Awards Ceremony</td>
<td>17 Oct.</td>
<td>11:30 a.m.–1:30 p.m.</td>
<td>DLCC, Ballroom A</td>
</tr>
<tr>
<td>GSA Hydrogeology Division</td>
<td>GSA Hydrogeology Division Business Meeting</td>
<td>17 Oct.</td>
<td>1:30–2:30 p.m.</td>
<td>DLCC, Ballroom A</td>
</tr>
<tr>
<td>GSA Hydrogeology Division</td>
<td>GSA Hydrogeology Division and Environmental and Engineering Geology Division Careers and Networking Event</td>
<td>17 Oct.</td>
<td>3:30–5 p.m.</td>
<td>DLCC, Ballroom A</td>
</tr>
<tr>
<td>GSA Hydrogeology Division</td>
<td>GSA Hydrogeology Division Student Reception</td>
<td>17 Oct.</td>
<td>6–8 p.m.</td>
<td>DLCC, Ballroom A</td>
</tr>
<tr>
<td>GSA Hydrogeology Division</td>
<td>GSA Hydrogeology Division Management Board Meeting II</td>
<td>18 Oct.</td>
<td>7–9 a.m.</td>
<td>DLCC, Room 412</td>
</tr>
<tr>
<td>GSA Karst Division</td>
<td>GSA Karst Division Business Meeting and Brown Bag Awards Reception</td>
<td>16 Oct.</td>
<td>noon–2 p.m.</td>
<td>DLCC, Room 412</td>
</tr>
<tr>
<td>GSA Marine and Coastal Geoscience Division</td>
<td>GSA Marine and Coastal Geoscience Division Annual Meeting</td>
<td>16 Oct.</td>
<td>1–1:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Somerset East</td>
</tr>
<tr>
<td>GSA Marine and Coastal Geoscience Division</td>
<td>GSA Marine and Coastal Geoscience Division Mixer Private Alumni (Off-Site)</td>
<td>17 Oct.</td>
<td>5:30–7:30 p.m.</td>
<td>Bakersfield Restaurant</td>
</tr>
<tr>
<td>GSA Planetary Geology Division</td>
<td>GSA Planetary Geology Division Annual Banquet <em>Ticketed Event</em></td>
<td>17 Oct.</td>
<td>7–10 p.m.</td>
<td>The Foundry Table &amp; Tap</td>
</tr>
<tr>
<td>GSA Quaternary Geology and Geomorphology Division</td>
<td>GSA Quaternary Geology and Geomorphology Division Awards Program</td>
<td>17 Oct.</td>
<td>6:45–11 p.m.</td>
<td>DLCC, Ballroom B/C</td>
</tr>
<tr>
<td>GSA Quaternary Geology and Geomorphology Division</td>
<td>GSA Quaternary Geology and Geomorphology Board Meeting</td>
<td>15 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Cambria East</td>
</tr>
<tr>
<td>GSA Sedimentary Geology Division</td>
<td>GSA Sedimentary Geology Division Business Meeting</td>
<td>18 Oct.</td>
<td>7–9 a.m.</td>
<td>The Westin Pittsburgh Hotel, Somerset East</td>
</tr>
<tr>
<td>GSA Sedimentary Geology Division</td>
<td>GSA Sedimentary Geology Division, Limnology Division &amp; SEPM Joint Reception</td>
<td>17 Oct.</td>
<td>6–8 p.m.</td>
<td>DLCC, Room 413 / 414 / 415</td>
</tr>
<tr>
<td>GSA Soils and Soil Processes Division</td>
<td>GSA Soils and Soil Processes Division Business Meeting</td>
<td>17 Oct.</td>
<td>noon–1:30 p.m.</td>
<td>The Standard Market and Pint House</td>
</tr>
<tr>
<td>GSA Structural Geology and Tectonics Division</td>
<td>GSA Structural Geology and Tectonics Division Business Meeting and Awards Ceremony</td>
<td>17 Oct.</td>
<td>6–8 p.m.</td>
<td>DLCC, Room 301 / 302</td>
</tr>
</tbody>
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15–18 October • Pittsburgh, Pennsylvania, USA 23
## Alphabetical Listing of Events

**DLCC—David L. Lawrence Convention Center**

### GSA ASSOCIATED SOCIETIES

<table>
<thead>
<tr>
<th>HOST NAME</th>
<th>EVENT NAME</th>
<th>DATE</th>
<th>TIME</th>
<th>LOCATION</th>
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</thead>
<tbody>
<tr>
<td>Association for Women Geoscientists</td>
<td>Association for Women Geoscientists (AWG) Awards and Networking Breakfast <em>Ticketed Event</em></td>
<td>16 Oct.</td>
<td>6:30–8:30 a.m.</td>
<td>DLCC, Ballroom A</td>
</tr>
<tr>
<td>Association for Women Geoscientists Foundation</td>
<td>Association for Women Geoscientists (AWG) Board of Directors Meeting</td>
<td>14 Oct.</td>
<td>9 a.m.–5 p.m.</td>
<td>The Westin Pittsburgh Hotel, Somerset West</td>
</tr>
<tr>
<td>Association of American State Geologists</td>
<td>Association of American State Geologists (AASG) Mid-Year Meeting</td>
<td>17 Oct.</td>
<td>7:30 a.m.–noon</td>
<td>The Westin Pittsburgh Hotel, Westmoreland Central</td>
</tr>
<tr>
<td>International Association for Geoscience Diversity (IAGD)</td>
<td>Meetup: Geoscientists with Disabilities</td>
<td>16 Oct.</td>
<td>2–3:30 p.m.</td>
<td>DLCC, Room 410</td>
</tr>
<tr>
<td>(Cosponsored by GSA DEI)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mineralogical Society of America (Cosponsored by Gemological Institute of America)</td>
<td>MSA/GIA Joint Reception</td>
<td>17 Oct.</td>
<td>6–8 p.m.</td>
<td>Carnegie Museums of Art and Natural History</td>
</tr>
<tr>
<td>Mineralogical Society of America</td>
<td>Mineralogical Society of America Awards Luncheon <strong>Ticketed Event</strong></td>
<td>17 Oct.</td>
<td>noon–2 p.m.</td>
<td>The Westin Pittsburgh Hotel, Pennsylvania West</td>
</tr>
<tr>
<td>National Association of Geoscience Teachers (NAGT)</td>
<td>National Association of Geoscience Teachers (NAGT), GSA Geoscience Education Division, Council on Undergraduate Research (CUR) Joint Awards Luncheon <em>Ticketed Event</em></td>
<td>17 Oct.</td>
<td>11:30 a.m.–1 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>(Cosponsored by USGS)</td>
<td>National Association of Geoscience Teachers (NAGT) and USGS Field Education Forum</td>
<td>15 Oct.</td>
<td>2:30–4 p.m.</td>
<td>The Westin Pittsburgh Hotel, Somerset</td>
</tr>
<tr>
<td>Paleontological Research Institution</td>
<td>Friends of the Paleontological Research Institution (PRI) Reception</td>
<td>16 Oct.</td>
<td>5:30–7 p.m.</td>
<td>Omni William Penn Hotel, Shadyside</td>
</tr>
<tr>
<td>Paleontological Society</td>
<td>2023 Paleontological Society Short Course: Diversity, Equity, and Inclusion in Paleontology: Application of Principles to Make Paleontology a More Just Discipline</td>
<td>14 Oct.</td>
<td>8 a.m.–5 p.m.</td>
<td>DLCC, Room 304 / 305</td>
</tr>
<tr>
<td>Paleontological Society</td>
<td>Paleontological Society (PS) Councilor and Friends Lunch</td>
<td>17 Oct.</td>
<td>noon–1:30 p.m.</td>
<td>DLCC, Room 411</td>
</tr>
<tr>
<td>Paleontological Society</td>
<td>Paleontological Society (PS) Business Meeting and Awards Reception Buffet <em>Ticketed Event</em></td>
<td>15 Oct.</td>
<td>6:30–10:30 p.m.</td>
<td>DLCC, Ballroom A</td>
</tr>
<tr>
<td>Paleontological Society</td>
<td>Schuchert Talk and Student Social</td>
<td>16 Oct.</td>
<td>5–6:30 p.m.</td>
<td>DLCC, Room 324</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>HOST NAME</th>
<th>EVENT NAME</th>
<th>DATE</th>
<th>TIME</th>
<th>LOCATION</th>
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</thead>
<tbody>
<tr>
<td>American Geosciences Institute</td>
<td>American Geosciences Institute Board of Directors Meeting</td>
<td>15 Oct.</td>
<td>8–11:30 a.m.</td>
<td>The Westin Pittsburgh Hotel, Butler East</td>
</tr>
<tr>
<td>American Geosciences Institute</td>
<td>American Geosciences Institute Board of Directors Training</td>
<td>15 Oct.</td>
<td>2–5 p.m.</td>
<td>The Westin Pittsburgh Hotel, Butler East</td>
</tr>
<tr>
<td>American Geosciences Institute</td>
<td>Friends of AGI Awards Reception</td>
<td>17 Oct.</td>
<td>5:30–7:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Cambria East</td>
</tr>
<tr>
<td>Climate Science Legal Defense Fund</td>
<td>Best Practices for Scientific Advocacy</td>
<td>16 Oct.</td>
<td>10–11 a.m.</td>
<td>DLCC, Room 331</td>
</tr>
<tr>
<td>Colgate University</td>
<td>Colgate University Geology Alumni Reception</td>
<td>16 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>Eastern Michigan University</td>
<td>Michigan Colleges/Universities Joint Alumni Reception (Albion, CMU, EMU, GVSU, Hope, Michigan Tech, WMU, WSU)</td>
<td>16 Oct.</td>
<td>5:30–7:30 p.m.</td>
<td>Omni William Penn Hotel, Conference B</td>
</tr>
<tr>
<td>Franklin &amp; Marshall College</td>
<td>Franklin &amp; Marshall College, Group Alumni Reception</td>
<td>16 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>Friends of the Cephalopods</td>
<td>Friends of the Cephalopods</td>
<td>17 Oct.</td>
<td>8–10 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny III</td>
</tr>
<tr>
<td>Friends of the Echinoderms</td>
<td>Friends of the Echinoderms Meeting</td>
<td>17 Oct.</td>
<td>7–9 p.m.</td>
<td>The Westin Pittsburgh Hotel, Butler East</td>
</tr>
<tr>
<td>Geosciences Division of Council on Undergraduate Research</td>
<td>CUR Geoscience Division Councilor Meeting</td>
<td>15 Oct.</td>
<td>4–6 p.m.</td>
<td>The Westin Pittsburgh Hotel, Cambria West</td>
</tr>
<tr>
<td>IUGS Deep-Time Digital Earth (Cosponsored by Geologic Time Scale Foundation)</td>
<td>Deep-Time Digital Earth (DDE), IUGS Big Science Program Reception</td>
<td>17 Oct.</td>
<td>6:30–8 p.m.</td>
<td>DLCC, Room 323</td>
</tr>
<tr>
<td>Keck Geology at Macalester College</td>
<td>Keck Geology Consortium Workshop</td>
<td>15 Oct.</td>
<td>4–5:30 p.m.</td>
<td>David L. Lawrence Convention Center, 331</td>
</tr>
<tr>
<td>Macalester College</td>
<td>Keck Geology Consortium Rep Meeting</td>
<td>15 Oct.</td>
<td>6–8:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Fayette</td>
</tr>
<tr>
<td>Maria Farmer</td>
<td>A Tribute to Jack Farmer, Father of Exopaleontology, Face of Astrobiology, Teacher to Thousands Around the World Reception: Session 69: Are We Alone in the Universe? The Science and Strategies to Search for Evidence of Past Life on Earth, in the Solar System, and Beyond</td>
<td>15 Oct.</td>
<td>1:30–5:30 p.m.</td>
<td>DLCC, Room 335</td>
</tr>
<tr>
<td>North American Commission on Stratigraphic Nomenclature</td>
<td>North American Commission on Stratigraphic Nomenclature Annual Meeting</td>
<td>16 Oct.</td>
<td>1–5 p.m.</td>
<td>The Westin Pittsburgh Hotel, Fayette</td>
</tr>
<tr>
<td>OSU College of Earth, Ocean, and Atmospheric Sciences</td>
<td>Oregon State University Alumni and Friends Reception (CEOAS) Hosted by the College of Earth, Ocean, and Atmospheric Sciences</td>
<td>16 Oct.</td>
<td>5:30–8 p.m.</td>
<td>The Westin Pittsburgh Hotel, Westmoreland East</td>
</tr>
<tr>
<td>HOST NAME</td>
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<tr>
<td>Penn State University</td>
<td>Penn State Alumni Reception</td>
<td>16 Oct.</td>
<td>5:30–8:30 p.m.</td>
<td>Omni William Penn Hotel, Oakmont</td>
</tr>
<tr>
<td>Rutgers University Department of Earth and</td>
<td>Rutgers University Department of Earth and Planetary</td>
<td>16 Oct.</td>
<td>7–10 p.m.</td>
<td>McCormick &amp; Schmick's</td>
</tr>
<tr>
<td>Planetary Sciences</td>
<td>Sciences Alumni Event</td>
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<tr>
<td>School of Earth and Sustainability, Northern</td>
<td>Northern Arizona University Earth and Sustainability</td>
<td>16 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>Arizona University</td>
<td>Alumni Reception</td>
<td></td>
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<tr>
<td>Sedimentary Geochemistry and Paleoenvironments</td>
<td>Sedimentary Geochemistry and Paleoenvironments Project</td>
<td>17 Oct.</td>
<td>6:30–8 p.m.</td>
<td>The Westin Pittsburgh Hotel, Washington</td>
</tr>
<tr>
<td>Project</td>
<td>Social Reception and Planning Meeting</td>
<td></td>
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<tr>
<td>Smith College</td>
<td>Smith College Group Alumni Reception</td>
<td>16 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>Stanford University</td>
<td>Stanford Doerr School of Sustainability Alumni Reception</td>
<td>16 Oct.</td>
<td>5:30–7 p.m.</td>
<td>Omni William Penn Hotel, Oliver</td>
</tr>
<tr>
<td>StraboSpot (Cosponsored by GSA Structural</td>
<td>StraboSpot Reception: Introducing StraboMicro and</td>
<td>15 Oct.</td>
<td>6:30–8:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Washington</td>
</tr>
<tr>
<td>Geology and Tectonics Division)</td>
<td>StraboSpot2</td>
<td></td>
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</tr>
<tr>
<td>Texas Tech University, Department of</td>
<td>Texas Tech University Alumni Reception</td>
<td>16 Oct.</td>
<td>6:30–9:30 p.m.</td>
<td>Southern Tier Brewery Pittsburgh</td>
</tr>
<tr>
<td>Geosciences</td>
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<tr>
<td>The National Science Foundation</td>
<td>NSF Town Hall: <em>Move Your Research Results to Society and the Economy</em></td>
<td>16 Oct.</td>
<td>noon–1 p.m.</td>
<td>DLCC, Room 310 / 311</td>
</tr>
<tr>
<td>Trinity University</td>
<td>Trinity University Alumni Reception</td>
<td>16 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>University of California–Santa Cruz</td>
<td>Subduction Zones in Four Dimensions (SZ4D) Town Hall</td>
<td>17 Oct.</td>
<td>5:30–6:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny II</td>
</tr>
<tr>
<td>University of Connecticut, Department of</td>
<td>University of Connecticut Alumni Reception</td>
<td>16 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>Earth Sciences</td>
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<tr>
<td>University of Kansas</td>
<td>University of Kansas Alumni Reception</td>
<td>16 Oct.</td>
<td>6–8 p.m.</td>
<td>Omni William Penn Hotel, Conference C</td>
</tr>
<tr>
<td>University of Kentucky, Department of Earth &amp;</td>
<td>University of Kentucky Department of Earth &amp; Environmental Sciences Alumni Reception</td>
<td>16 Oct.</td>
<td>6–8 p.m.</td>
<td>Omni William Penn Hotel, Vandergrift</td>
</tr>
<tr>
<td>Environmental Sciences</td>
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</tr>
<tr>
<td>University of Michigan</td>
<td>University of Michigan Earth and Environmental Sciences Alumni Reception</td>
<td>16 Oct.</td>
<td>6–8 p.m.</td>
<td>The Westin Pittsburgh Hotel, Somerset West</td>
</tr>
<tr>
<td>University of New Mexico</td>
<td>Rio Grande Universities Alumni Reception</td>
<td>16 Oct.</td>
<td>7–10 p.m.</td>
<td>Omni William Penn Hotel, Conference A</td>
</tr>
<tr>
<td>(Cosponsored by New Mexico Tech University,</td>
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<tr>
<td>New Mexico State University, University of</td>
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<tr>
<td>Texas at El Paso)</td>
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<tr>
<td>University of North Carolina at Chapel Hill</td>
<td>University of North Carolina at Chapel Hill Alumni</td>
<td>16 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
<tr>
<td>University of Tennessee, Knoxville Department of Earth and Planetary Sciences</td>
<td>University of Tennessee, Knoxville Alumni Reception</td>
<td>16 Oct.</td>
<td>7–9 p.m.</td>
<td>Omni William Penn Hotel, Phipps</td>
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<tr>
<td>University of Utah, Department of Geology and Geophysics</td>
<td>University of Utah Alumni Reception</td>
<td>16 Oct.</td>
<td>6–8 p.m.</td>
<td>Omni William Penn Hotel, Franklin/Green Room</td>
</tr>
<tr>
<td>University of Washington, Department of Earth and Space Sciences</td>
<td>University of Washington Department of Earth and Space Sciences Alumni Reception</td>
<td>16 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Washington</td>
</tr>
<tr>
<td>William &amp; Mary (Cosponsored by James Madison University, Virginia Tech)</td>
<td>Virginia Universities Alumni Reception (William &amp; Mary, James Madison University, Virginia Tech)</td>
<td>16 Oct.</td>
<td>7:30–9 p.m.</td>
<td>Omni William Penn Hotel, Frick</td>
</tr>
<tr>
<td>York College of CUNY (Cosponsored by Dhaka University)</td>
<td>Dhaka University (Bangladesh) Geology Graduates Reflecting 50 Years of Geobonding</td>
<td>16 Oct.</td>
<td>7–9:30 p.m.</td>
<td>The Westin Pittsburgh Hotel, Allegheny I</td>
</tr>
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</table>

**Local Organizing Committee**

- **Gale Blackmer**
  General Co-Chair
  Pennsylvania State Geologist

- **Jessica Moore**
  General Co-Chair
  West Virginia State Geologist

- **Brett McLaurin**
  Field Trip Chair
  Bloomsburg University

- **Patrick Burkhart**
  Technical Program Chair
  Slippery Rock University

- **Kevin Mickus**
  Vice Technical Program Chair
  Missouri State University
Endorsement Recognition—Session Co-Endorsing Organizations

AASP - The Palynological Society
American Association of Petroleum Geologists
American Association of State Geologists
American Association of Stratigraphic Palynologists
American Geophysical Union
American Geosciences Institute
American Institute of Professional Geologists
American Quaternary Association
Association for Women Geoscientists
Association of American State Geologists
Chinese Geological Society
Cushman Foundation
Earth Science Information Partners
EarthScope Consortium
ExxonMobil
Geochemical Society
Geological Society of America
Groundwater Solutions Initiative for Policy and Practice
GSA Continental Scientific Drilling Division
GSA Energy Geology Division
GSA Environmental and Engineering Geology Division
GSA Environmental and Engineering Geology Division:
  Landslide Committee
GSA Foundation
GSA Geoarchaeology Division
GSA Geobiology and Geomicrobiology Division
GSA Geochronology Division
GSA Geoinformatics and Data Science Division
GSA Geology and Health Division
GSA Geology and Public Policy Committee
GSA Geology and Society Division
GSA Geophysics and Geodynamics Division
GSA Geoscience Education Division
GSA History and Philosophy of Geology Division
GSA Hydrogeology Division
GSA International
GSA Karst Division
GSA Limnogeology Division
GSA Marine and Coastal Geoscience Division
GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division
GSA Planetary Geology Division
GSA Quaternary Geology and Geomorphology Division
GSA Sedimentary Geology Division
GSA Soils and Soil Processes Division
GSA Structural Geology and Tectonics Division
History of Earth Sciences Society
International Association for Geoscience Diversity
International Association for Promoting Geoethics
International Association of GeoChemistry
International Association of Hydrogeologists
International Association of Hydrogeologists
International Environmental & Health Sciences Consortium
International Medical Geology Association
International Mineralogical Association
International Society of Groundwater for Sustainable Development
International Union of Geological Sciences Deep-Time Digital Earth
International Water Association Specialist Group
Karst Waters Institute
LIFE Research Coordination Network
Metals and Related Substances in Drinking Water (METRELS)
Mineralogical Society of America
NASA/Jet Propulsion Laboratory
National Association of Geoscience Teachers (NAGT) Geo2YC Division
National Association of Geoscience Teachers (NAGT) Geoscience Education Research (GER) Division
National Association of Geoscience Teachers (NAGT) Teacher Education Division (TED)
National Cave and Karst Research Institute
National Earth Science Teachers Association
Paleontological Research Institution
Paleontological Society
Pittsburgh Geological Society
SEPM (Society for Sedimentary Geology)
Sigma Gamma Epsilon
Society of Economic Geologists
The International Society of Groundwater for Sustainable Development
U.S. National Committee for Geodesy and Geophysics
U.S. National Committee for Geological Sciences
U.S. National Committee for Psychological Sciences
U.S. National Committee for Quaternary Research
U.S. National Committee for Soil Sciences
US Geological Survey - National Cooperative Geologic Mapping Program
Map of Convention Center

Level 2

Hall C
45,100 sq. ft.

Hall B
82,450 sq. ft.

Hall A
109,000 sq. ft.

Loading Dock
Loading Bays
209-220

Loading Bays
201-204

Loading Bays
205-208

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Map of Convention Center

Level 3
Map of The Westin Pittsburgh

THIRD FLOOR
1. ALLEGHENY GRAND BALLROOM
2. ALLEGHENY FOYER
3. CRAWFORD

SECOND FLOOR
1. BUTLER
2. CAMBRIA
3. WESTMORELAND
4. WASHINGTON
5. LAWRENCE
6. ARMSTRONG
7. SOMERSET
8. FAYETTE
9. ROTUNDA
10. PENNSYLVANIA PREFUNCTION
11. PENNSYLVANIA