

# GSA Geophysics & Geodynamics Division Newsletter: Dec 2023



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## 1. Upcoming deadlines:

[GSA membership renewal](#): **Dec 31, 2023**

Nominations for [the G&G Woollard Award](#), [the G&G Stein Early Career Award](#), and [GSA Fellowship](#): **Feb 1, 2024**

[GSA Connects 2024 Session Proposals](#): **Feb 1, 2024**

[Student research grant applications](#): **Feb 1, 2024**

Section meeting abstracts: [NE](#): **Dec 12, 2023**; [SE](#): **Jan 9, 2024**; [NC-SC](#): **Jan 16, 2024**; [RM-Cord](#): **Feb 6, 2024**

## 2. Notes from GSA Connects 2023

Dear Geophysics & Geodynamics Division Members:

It was great to see many of you at GSA Connects 2023. With continued increases in attendance since the pandemic, it's been a vibrant experience with interesting and high-quality scientific exchange.

Speaking of high-quality science, please congratulate our two **2023 G&G Best Student Paper Award** winners, **Hannah Proffitt**, who [presented on induced seismicity](#), and **Joseph Phillips**, who [presented on shear wave anisotropy](#).

We had several excellent **G&G-endorsed and co-endorsed sessions** covering a variety of topics such as geologic carbon storage, explosion sources monitoring, critical minerals, impact cratering, karst hazards, craton building, aquifer recharge, orogenic architecture and tectonics, the Andes, deep-time geography, general near-surface applications, deep problems in geodynamics, and spotlighting positive and diverse female role models.

**Propose a G&G-themed session at the 2024 GSA Connects** in Anaheim next September; make it your meeting. [Session proposals](#) are due Feb. 1, 2024.

This year, as part of a G&G luncheon, **Mian Liu** (U. Missouri) **gave the 2023 Woollard Award Lecture**, discussing new developments in understanding fault evolution, interaction, and earthquakes. Honors were also extended to our **2023 Cox Award recipient Tobi Ore** (West Virginia University) and **G&G Division Award recipients Audrey Berlin** (University of Utah) and **Fernando Cordoba Ramirez** (Dalhousie University).

***Congratulations Mian, Tobi, Audrey, Fernando, Hannah, and Joseph!***

At the luncheon, we also enjoyed learning more about G&G student efforts through interesting lightning talks by our 2022 Division Award recipients, **Alysa Fintel**, and **Efemena Emmanuel**. ***Thanks Alysa and Efemena!***

**G&G is always seeking new nominations** for the [Woollard Award](#), which signifies outstanding contributions to geology through the application of geophysics, and the [Steins Early Career Award](#), presented for significant contributions using geophysics and geodynamics by a young scientist. This year the requirements for the Steins Award will be relaxed to only one year of G&G membership. The deadline for nominations is February 1, 2023. Nominations should be emailed directly to the G&G Division Chair (Anji Shah; [ashah@usgs.gov](mailto:ashah@usgs.gov)).

**Students may apply for research grants** through the [GSA Research Grants portal](#). The deadline is Feb 1, 2024.

We hope you had a chance to stop by the **newly designed G&G Booth** in the exhibit hall, next to the GSA Bookstore and check out new **G&G swag for sale**. If we ran out of your size, you can also purchase items directly from [RedBubble](#). Proceeds go to the G&G Division. Or, if you would like to donate to G&G directly, please consider contributing to the [Geophysics and Geodynamics Division Fund](#).

### **3. 2024 Section Meetings: G&G endorsed sessions**

The following sessions at these Section Meetings include themes of interest to G&G members. Consider submitting an abstract!

Northeast (Manchester, NH; deadline Dec 12, 2023):

- T4. Recent Advances in the Crystalline Basement of the Adirondack and Appalachian Orogens
- T6. New Insights into Convergent Margin Processes from Collaborative Field and Laboratory Studies Programs in Northern New England and Quebec
- T7. Unraveling Appalachian Orogenic Events Using Geological and Geophysical Methods
- T26. Current Research in Coastal and Nearshore Processes
- T28. Mapping in the Geosciences: Processes and Products (Posters)
- T31. Economic Geology and Critical Mineral Resources

Southeast (Asheville, NC; deadline Jan 9, 2024):

- S1. Spanning an Orogen—From the Scandinavian Caledonides of Norway to the Southernmost Appalachians of Alabama: In Honor of the Career of James F. Tull
- S2. Interstate collaboration in the Southeast US—State Geological Surveys Working Towards Stratigraphic and Lithologic Equivalencies to Address Mapping Discrepancies More Effectively.
- T3. Magma, Heat, Fluids, and Critical Resources Across Tectonic Settings, Lithospheric Realms, Volcanic Systems, and Geologic Timescales.
- T4. The Eastern Piedmont: The Last Frontier of Research in the Southern Appalachian Orogen.
- T5. Carolina Terrane Origins and Evolution
- T6. Ductile to Brittle Deformation in the Southern Appalachians: Grenville to Present.
- T8. Geoscience Investigations of the Caribbean: Fundamental Science, Socioeconomic and Environmental Issues.
- T15. Current Technological Trends in Landslide Assessment and Susceptibility Studies: Innovative Digital Techniques, Collection Methods, and Modeling
- T16. Progress Towards Geologic CO<sub>2</sub> Storage in the Eastern United States
- T20. Past, Present, and Future Sea-level and Landscape Change on the U.S. Coast and Continental Shelf.
- T21. Applied Geophysical Survey Methods and Mapping in the Southeast. *\*\* We would like to be the primary endorser for this*
- T25. Geologic Maps, Geophysical Maps, 3-D Geological Models, Digital Mapping Techniques, Map Derivatives, and Digital Map Preparation.

North Central-South Central (Springfield, MO; deadline Jan 16, 2024)

- T1. Environmental Geophysics Applications
- T2. Using Near Surface Geophysics to Solve Geological Problems
- T3. Geophysical, Geochemical and Geodynamical Investigations of the Midcontinent
- T4. Geological Applications of Potential Field Geophysics
- T5. Patterns, Drivers, and Implications of Natural and Induced Continental Intraplate Earthquakes
- T12. Appalachian & Ouachita-Marathon Orogenesis: Records of Late Paleozoic Supercontinent Assembly Along Southern and Eastern Laurentia
- T13. New Basement Perspectives on the Precambrian Evolution of North America
- T14. New Insights into the Tectonic Evolution and Deformation of the Ozark Plateau of the Midcontinent Region
- T15. Carbonate-Hosted Base Metal Deposits of the U.S. Mid-Continent: Genesis, Exploitation, and Remediation
- T16. Advances in Understanding Critical Mineral Deposits
- T17. Critical Mineral Studies in the Midcontinent US
- T26. Case Histories of Practicing Environmental and Engineering Geologist Investigations
- T29. Recent Advances in Remote Sensing and GIScience and their Applications in Geosciences

Rocky-Mountain-Cordilleran (Spokane, WA; deadline Feb 6, 2024)

- T1. Recent Advances in Mineral Resources Research and Exploration
- T2. Magmatic Rare Earth Element Ore Deposits and Minerals for the Future
- T6. Advancements in Geologic Carbon Sequestration in Basalt
- T7. Faults, Fractures, and Fluids: Structural Control of Fluid Flow, Fault Zones, and Hydrothermal Processes
- T12. Northwest Cordillera Eocene Tectonics, Volcanism and Climate: Bridging the Borders
- T13. New Developments in the Magmatic Drivers of Cascades Volcanism
- T14. Continental Mafic Volcanism: Honoring the Career of Vic Camp
- T15. Distributed Volcanic Fields in Western North America
- T18. Using Geologic and Geophysical Data to Unravel Neotectonics and Long-term Deformation across Cascadia
- T19. Structure and Tectonics of the North American Cordillera and Rocky Mountains
- T21. Implications of Lithosphere-Crust interactions within the Northern Cordillera
- T24. What Lies Beneath: The Basement Geology of Western North America
- T28. Mapping the West (Posters)

#### 4. Passing the baton

**Donna Jurdy** and **Patricia Persaud**, who served the G&G Division as Chair/Past Chair and Secretary/Treasurer, respectively, are passing the baton onto the next group of officers. **Micah Mayle** and **Molly Gallahue** are also completing their roles as student representatives. **Ting Chen** will help Division continuity as she moves from the position of Chair to Past Chair.

***Big thanks to Donna, Patricia, Micah, Molly, and Ting!***

Here is the new officer line-up:

Student representative: **Andie Gomez-Patron**, Cornell University  
Secretary/Treasurer: **Amanda Hughes**, U. of Arizona  
Vice-Chair: **Shannon Dulin**, U. of Oklahoma  
Chair: **Anjana (Anji) Shah**, U.S. Geological Survey  
Past Chair: **Ting Chen**, Los Alamos National Laboratory

We're looking forward to seeing you at GSA Connects and various Section Meetings!

With warmest regards,  
Anji, Shannon, Amanda, Andie, and Ting