

Unearth the Power of Inclusion with “Diverse Science for a Sustainable Future!”

WHY DID WE CHOOSE this as one of the themes for the GSA Connects 2023 Conference? Because tackling the world's most urgent challenges needs more than a single lens—it demands a kaleidoscope of dynamic perspectives. “Diverse Science for a Sustainable Future” isn't just a slogan; it's our north star guiding us toward a world where science is as diverse as the planet it aims to save. This theme champions cross-disciplinary dialogues and unites community insights with the expansive realm of the geosciences. In short, it's where cutting-edge science meets real-world action to pave the way for an equitable and green tomorrow.



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Curated Just for You: Explore a Galaxy of Opportunity!

How can you take advantage? Dive into an enriched palette of technical sessions, keynote symposia, special lectures, field trips, and short courses—all meticulously aligned with this groundbreaking theme. Expand your horizons, challenge your viewpoints, and discover game-changing approaches in geoscience. Below is your one-stop-shop for contributing to a future we can all be proud of.



Diverse Science for a Sustainable Future



Sunday, 15 Oct.

**8 a.m.–noon; David L. Lawrence
Convention Center (DLCC), Level 3**

4 - T38. [Inclusive Geoscience Teaching for Today's Students](#) - DLCC, Room 330

11 - T88. [Urban Geochemistry](#) - DLCC, Room 325

12 - T97. [Investigating Earth's Past, Present, and Future with Continental Scientific Drilling](#) - DLCC, Room 324

13 - T98. [Geomorphology and Interdisciplinary Science I: In Memory of Edward A. Keller](#) - DLCC, Room 310 / 311

16 - T135. [The Past, Present, and Future of the Digital Data Revolution and Its Effect on the Geosciences](#) - DLCC, Room 335

**8 a.m.–5:30 p.m.; David L. Lawrence
Convention Center Hall B, Level 2**

31 - T19. [Environmental and Engineering Geology Division: Poster Session for Graduate and Undergraduate Students \(Posters\)](#)

32 - T21. [Environmental and Engineering Geology Division \(Posters\)](#)

35 - T88. [Urban Geochemistry \(Posters\)](#)

43 - T131. [New Advances in Geobiology \(Posters\)](#)

44 - T132. [New Voices in Geobiology \(Posters\)](#)

46 - T135. [The Past, Present, and Future of the Digital Data Revolution and Its Effect on the Geosciences \(Posters\)](#)

★ **GSA Presidential Address: “[Geoscience at the Confluence](#).” (Chuck Bailey)**
noon–1:30 p.m.; DLCC Ballroom B/C, Level 3

**1:30 p.m.–5:30 p.m.; David L. Lawrence
Convention Center (DLCC), Level 3**

52 - T13. [Characteristics, Reactivity and Role of Natural Organic Matter \(NOM\) in Elemental Cycling in the Environment](#) - DLCC, Room 333

65 - T141. [Arsenic, Fluoride, and Other Geogenic Contaminants in Groundwater: Advances in Application of Data Science, Machine Learning for Risk Assessment and Monitoring for Sustainable Mitigation of Associated Health Hazards](#) - DLCC, Room 319

70 - [Toward Collaborative Solutions: Advancing Environmental Justice Through Local Engagement](#)
2:30–3:15 p.m., DLCC Ballroom B/C

Monday, 16 Oct.

**8 a.m.–noon; David L. Lawrence
Convention Center (DLCC), Level 3**

Pardee Keynote Symposium: P1. [Land of Our Ancestors Submerged by a Lake of Betrayal](#) - DLCC Ballroom B/C

75 - T18. [Teaching Environmental Justice “In and Beyond” the Classroom](#) - DLCC, Room 333

86 - T137. [Advances and New Voices in Marine and Coastal Geoscience](#) - DLCC, Room 325

87 - T142. [Achieving Groundwater Security across Local-to-Regional Scales in the Anthropocene](#) - DLCC, Room 319

**8 a.m.–5:30 p.m.; David L. Lawrence
Convention Center Hall B, Level 2**

97 - T17. [Environmental Geochemistry and Health \(Posters\)](#)

102 - T38. [Inclusive Geoscience Teaching for Today's Students \(Posters\)](#)

103 - T39. [Geoscience and Hydrology of Your Public Lands: STEM Internships, Research, Science, Mapping, Resource Management, and Education \(Posters\)](#)

106 - T55. [Geologic History, Resource Development, and Environmental Challenges of the Pittsburgh and Appalachian Regions \(Posters\)](#)

★ **Noontime Lecture: “[Sea-level Rise: The Solid and the Scary](#)” (Richard Alley)**
12:15 p.m.–1:15 p.m.; DLCC Ballroom B/C, Level 3

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**1:30 p.m.–5:30 p.m.; David L. Lawrence
Convention Center (DLCC), Level 3**

Pardee Keynote Symposium: [P2. Spotlight on Positive and Diverse Female Role Models](#) - DLCC Ballroom B/C

119 - T15. [Geology and Society Division at 20 I: How Geology Shapes Society – Past, Present, and Future](#) - DLCC, Room 333

122 - T55. [Geologic History, Resource Development, and Environmental Challenges of the Pittsburgh and Appalachian Regions](#) - DLCC, Room 334

123 - T58. [The Stories of Geoheritage](#) - DLCC, Room 320

130 - T104. [Sources, Sinks, Transport, and Storage of Sediment in Fluvial Systems](#) - DLCC, Room 315/316 h

134 - T131. [New Advances in Geobiology](#) - DLCC, Room 325

Tuesday, 17 Oct.

**8 a.m.–noon; David L. Lawrence
Convention Center (DLCC), Level 3**

144 - T29. [Expanding the Tent: Strategies for Increasing Participation through Spatial Thinking and Geoscience Education Research](#) - DLCC, Room 328

145 - T30. [Highlighting Successful Mentoring Strategies in the Geosciences](#) - DLCC, Room 333

147 - T69. [Disabled and Neurodivergent Perception, Community, and Identity in the Geosciences](#) - DLCC, Room 303

154 - T126. [Characterization of Karst Aquifers Using Chemical, Biological, and Hydrogeological Data](#) - DLCC, Room 310/311

155 - T132. [New Voices in Geobiology](#) - DLCC, Room 335

156 - T143. [A Hydrogeologic Career Well Lived: A Session on the Research Topics of Ken Bradbury](#) - DLCC, Room 329

157 - T151. [Applications of Geophysics to Solve Near Surface Geological Problems](#) - DLCC, Room 327

**8 a.m.–5:30 p.m.; David L. Lawrence
Convention Center Hall B, Level 2**

163 - D6. [Mélange Session \(Posters\)](#)

179 - T137. [Advances and New Voices in Marine and Coastal Geoscience \(Posters\)](#)

180 - T141. [Arsenic, Fluoride, and Other Geogenic Contaminants in Groundwater: Advances in Application of Data Science, Machine Learning for Risk Assessment and Monitoring for Sustainable Mitigation of Associated Health Hazards \(Posters\)](#)

181 - T142. [Achieving Groundwater Security across Local-to-Regional Scales in the Anthropocene \(Posters\)](#)

182 - T143. [A Hydrogeologic Career Well Lived: A Session on the Research Topics of Ken Bradbury \(Posters\)](#)

183 - T149. [Geologic Carbon Storage \(Posters\)](#)

★ **Halbouty Distinguished Lecture: “How Fracking Affects Our Water” (Susan L. Brantley)**
12:15 p.m.–1:15 p.m.; DLCC Ballroom B/C, Level 3

**1:30 p.m.–5:30 p.m.; David L. Lawrence
Convention Center (DLCC), Level 3**

Pardee Keynote Symposium: P4. [Encouraging Positive Mental Health in the Geosciences](#) - DLCC Ballroom B/C

189 - T15. [Geology and Society Division at 20 II: How Geology Shapes Society – Past, Present, and Future](#) - DLCC, Room 333

191 - T21. [Environmental and Engineering Geology Division II](#) - DLCC, Room 325

192 - T37. [G-IRL: Collaborations and Conversations on Practicing Geoscience and In-Real-Life Applications for Dismantling Scientific Siloes](#) - DLCC, Room 330

193 - T39. [Geoscience and Hydrology of Your Public Lands: STEM Internships, Research, Science, Mapping, Resource Management, and Education](#) - DLCC, Room 335

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196 - T71. [Past and Future Organism-Environment Interactions: Paleobiological and Geochemical Insights from Physiology, Macroecology and Earth System Modeling](#) - DLCC, Room 303

206 - [GSA Hydrogeology Division Birdsall-Dreiss Distinguished Lecture](#)

3-5:30 p.m.; DLCC, Room 315 / 316

Wednesday, 18 Oct.

**8 a.m.-noon; David L. Lawrence
Convention Center (DLCC), Level 3**

Pardee Keynote Symposium: P5. [Past, Present, and Future of Waste Management](#) - DLCC
Ballroom B/C

209 - D12. [Recent Advances in Hydrogeology](#) -
DLCC, Room 327

214 - T17. [Environmental Geochemistry and Health I](#)
- DLCC, Room 333

215 - T32. [Engaging the Public in Science: Promoting a Deeper Understanding of Our World and Beyond](#) - DLCC, Room 328

224 - T145. [Advances in Managed Aquifer Recharge](#) - DLCC, Room 319

★ **Noontime Lecture: “East Palestine, Ohio: Train Derailment and Chemical Incineration” (Patrick Burkhart)**
12:15 p.m.-1:15 p.m.; DLCC Ballroom B/C, Level 3

**8 a.m.-5:30 p.m.; David L. Lawrence
Convention Center Hall B, Level 2**

228 - D12. [Recent Advances in Hydrogeology \(Posters\)](#)

234 - D32. [Relevant Topics in Geochemistry \(Posters\)](#)

235 - T15. [Geology and Society Division at 20: How Geology Shapes Society – Past, Present, and Future \(Posters\)](#)

236 - T34. [Early Involvement in Geoscience Research Among K9-16 Students Can Ensure Sustained Growth of the Discipline \(Posters\)](#)

239 - T69. [Disabled and Neurodivergent Perception, Community, and Identity in the Geosciences \(Posters\)](#)

244 - T104. [Sources, Sinks, Transport, and Storage of Sediment in Fluvial Systems \(Posters\)](#)

**1:30 p.m.-5:30 p.m.; David L. Lawrence
Convention Center (DLCC), Level 3**

254 - D32. [Relevant Topics in Geochemistry](#)
- DLCC, Room 327

256 - T17. [Environmental Geochemistry and Health II](#) - DLCC, Room 333

257 - T33. [Outside the Classroom. Beyond Fieldwork: Innovative Approaches to Informal Geoscience Education in Non-Traditional Settings](#)
- DLCC, Room 328

262 - T96. [Salinization of Freshwater](#) - DLCC,
Room 317 / 318

265 - T146. [Advances in Monitoring, Mapping, and Modeling Saltwater Intrusion and Groundwater Salinity](#) - DLCC, Room 319

Field Trips

403. [Hydrology and Geology of the Fernow Experimental Forest](#). Friday, 13 Oct., 7 a.m.-7:30 p.m.

409. [The Cultural Geology of Youngstown: Geological Setting, Building and Decorative Stones, Iron and Steel Heritage, and More](#). Saturday, 14 Oct., 7:30 a.m.-5:30 p.m.

411. [A Land of Ice and Water: An Accessible Introduction to Glacial and Watershed Processes in Western Pennsylvania](#). Thursday, 19 Oct., 8 a.m.-5:30 p.m.

414. [Coal to Clean Water: Passive and Active Acid Mine Drainage Treatment Systems in the Pittsburgh Area](#). Thursday, 19 Oct., 8:30 a.m.-5 p.m.

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Short Courses

501. [How to Create Your Own 3D Videogame—Style Geologic Field Trip and Host it Online: Accessible, Immersive Data Visualization for Education and Research.](#) Friday, 6 Oct., 9:30 a.m.–5 p.m.

502. [How the Natural Environment Gets Away with Murder: Medical Geology Fundamentals and Applications.](#) Friday, 6 Oct., 11 a.m.–6 p.m.

508. [On To the Future and GSA Associated Societies Expo: Finding Your Pathway to Geosciences Professions.](#) Saturday, 14 Oct., 8 a.m.–5 p.m.

510. [Talking Science: A Communicating Science Workshop.](#) Saturday, 14 Oct., 8 a.m.–5 p.m.

514. [Ground-Penetrating Radar—Principles, Practice, and Processing.](#) Saturday, 14 Oct., 8:30 a.m.–4:30 p.m.

519. [How to Have Productive Conversations with People about Science.](#) Saturday, 14 Oct., 8 a.m.–noon

521. [Open & FAIR Mineral Data: Best Practices for Sharing and Reusing Observations from the Field and Lab.](#) Saturday, 14 Oct., 8 a.m.–noon

522. [Building Better Broader Impacts \(and Evaluation\) for NSF Grant Proposals.](#) Saturday, 14 Oct., 1–5 p.m.

523. [Voices of Integrating Culture in the Earth Sciences \(VOICES\).](#) Saturday, 14 Oct., 1–5 p.m.

ASC 1. [Diversity, equity, and inclusion in paleontology: Application of principles to make paleontology a more just discipline.](#) Saturday, 14 Oct., 8 a.m.–5 p.m. - DLCC, Room 304 / 305

Exhibitors

DLCC, Level 2, Hall A

Sun., 5–7 p.m.

Mon.–Tues., 10 a.m.–6:30 p.m.

Wed., 10 a.m.–2 p.m.

- American Institute of Professional Geologists (AIPG), Booth 1128
- ASC Scientific, Booth 517
- Association of Environmental & Engineering Geologists (AEG), Booth 1019
- Association for Women Geoscientists, Booth 1221
- Association of State Boards of Geology (ASBOG), Booth 1130
- Beta Analytic Inc, Booth 521
- Bruker Corporation, Booth 707
- Carlson Software, Inc., Booth 911
- Center for Applied Isotope Studies, University of Georgia, Booth 1116
- Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI), Booth 409
- Continental Scientific Drilling Facility, Booth 818
- Data Help Desk / GSA Geoinformatics & Data Science Division, HQ Pavilion Table 7
- Emriver, Inc., Booth 1010
- Environmental Isotope Laboratory (Waterloo), Booth 717
- Field Environmental Instruments, Booth 1227
- GSA Environmental & Engineering Geology Division (EEGD), HQ Pavilion Table 3
- GSA Hydrogeology Division, HQ Pavilion Table 13
- Guideline Geo, Booth 1220
- International Association for Geoscience Diversity, Booth 1127
- National Experienced Workforce Solutions, Booth 1229
- National Park Service, Booth 712
- National Science Foundation, Booth 1027
- Sensors & Software, Inc., Booth 1121
- Thermo Fisher Scientific, Booth 721
- U.S. Geological Survey, Booth 713
- Vapor Pin Enterprises, Inc., Booth 1119

The meeting themes aren't just talking points—they're rallying cries for a better tomorrow. Now, it's up to us to answer that call. Are you ready?