

## Navigate the Path Forward with “Climate and Energy Transition!”

**W**HY DID WE CHOOSE this as one of the themes for the GSA Connects 2023 Conference? Because the world needs practical climate solutions. Our focus on “Climate and Energy Transition” spotlights cutting-edge discoveries and solutions that are more than theoretical—they’re actionable. From exploring climate resilience to turbocharging low-carbon innovations, this theme knits the essential threads of science and society to energize a sustainable future.



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### Your Toolkit for Change: Learn, Collaborate, Innovate!

**How to make the most of it?** Immerse yourself in an eclectic array of technical sessions, keynote symposia, field trips, and more—all laser-focused on the climate and energy transition. Whether you’re hungry for the latest climate data or looking to explore sustainable energy solutions, you’ll find the resources and contacts here to fuel your ambitions and make a lasting impact.



# Climate and Energy Transition



## Sunday, 15 Oct.

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

1 - D4. [Economic Geology: Ore Deposits and Extractions Related to Critical Minerals](#) - DLCC, Room 333

T41. [Cycles of Climate and Layers of Time I: The Scientific Legacies of Roger Y. Anderson and Walter E. Dean, Jr.](#) - DLCC, Room 321

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

24 - T2. [Emerging Voices in Energy Geology Research: Contributions from Students and Early Career Professionals](#) (Posters)

25 - T3. [The Changing Landscape of Energy Geology](#) (Posters)

26 - T5. [Carbon and Hydrogen Storage in Geologic Systems](#) (Posters)

27 - T8. [Critical Research on Critical Minerals in Western North America](#) (Posters)

28 - T9. [Regional Characterization of Critical Mineral Potential](#) (Posters)

29 - T10. [Characterization of Critical Metals in Unconventional Ores to Inform Recovery Potential](#) (Posters)

30 - T16. [No Well Left Behind: Quantifying Impacts and Improving Management of Active, Abandoned, and Orphaned Oil and Gas Wells to Safeguard Air, Water, and Land Resources](#) (Posters)

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

66 - T149. [Geologic Carbon Storage](#) - DLCC, Room 324

## Monday, 16 Oct.

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

73 - T5. [Carbon and Hydrogen Storage in Geologic Systems](#) - DLCC, Room 310 / 311

74 - T8. [Critical Research on Critical Minerals in Western North America I](#) - DLCC, Room 324

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

95 - T7. [Linking Critical Minerals and the Geologic Framework of North America: The USGS Earth Mapping Resources Initiative \(Earth MRI\) and Related Activities](#) (Posters)

105 - T43. [Oceans and Climates through Earth History: Modelling, Proxy, and Proxy Development Studies](#) (Posters)

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

118 - T8. [Critical Research on Critical Minerals in Western North America II](#) - DLCC, Room 324

## Tuesday, 17 Oct.

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

Pardee Keynote Symposium: P3. [Addressing Society's Urgent Need for Critical Minerals: From Policy to Practice](#) - DLCC Ballroom B/C

141 - T4. [Deep-Time Empowered Sustainability, Energy Transition, and Carbon Solutions](#) - DLCC, Room 320

142 - T7. [Linking Critical Minerals and the Geologic Framework of North America I: The USGS Earth Mapping Resources Initiative \(Earth MRI\) and Related Activities](#) - DLCC, Room 324

146 - T46. [Pleistocene-Holocene Climate Variability of Western North America](#) - DLCC, Room 321

# Climate and Energy Transition



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

162 - D4. [Economic Geology: Ore Deposits and Extractions Related to Critical Minerals \(Posters\)](#)

★ **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**

187 - T3. [The Changing Landscape of Energy Geology I](#) - DLCC, Room 320

188 - T7. [Linking Critical Minerals and the Geologic Framework of North America II: The USGS Earth Mapping Resources Initiative \(Earth MRI\) and Related Activities](#) - DLCC, Room 324

190 - T16. [No Well Left Behind: Quantifying Impacts and Improving Management of Active, Abandoned, and Orphaned Oil and Gas Wells to Safeguard Air, Water, and Land Resources](#) - DLCC, Room 310 / 311

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## Wednesday, 18 Oct.

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

212 - T3. [The Changing Landscape of Energy Geology II](#) - DLCC, Room 320

213 - T10. [Characterization of Critical Metals in Unconventional Ores to Inform Recovery Potential](#) - DLCC, Room 324

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

255 - T9. [Regional Characterization of Critical Mineral Potential](#) - DLCC, Room 324

258 - T42. [Records of Quaternary Climate, Hydrology and Landscape Evolution in the Great Basin, USA](#) - DLCC, Room 321

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## Field Trip

406. [Drake Well: Understanding the Birthplace of the Oil Age and Its Historical Human and Environmental Impacts](#). Saturday, 14 Oct., 7:30 a.m.–5 p.m.

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## Short Courses

504. [Understanding Carbonates for Sustainability and the Energy Transition](#). Friday, 13 Oct., 8:30 a.m.–4:30 p.m.

505. [Methods and Geological Applications in Geo-Thermo-Petro-Chronology I](#). Friday, 13 Oct., 9 a.m.–5 p.m.

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## 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 Geosciences Institute (AGI), Booth 715
- Association of American State Geologists (AASG), Booth 816
- Beta Analytic Inc, Booth 521
- CivicMapper, Booth 539
- DirectAMS, Booth 1226
- Geothermal Rising, Booth 541
- Lithium Americas, Booth 1118
- National Science Foundation, Booth 1027
- Rigaku Americas Corp., Booth 621
- Spectral Evolution, Booth 1114
- U.S. Geological Survey, Booth 713

*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?*