Sign in to access from anywhere using the same GSA account username and password that you used to register for the meeting.

Once signed in, you will be able to:

- create your own personal schedule of events,
- search across the meeting for people, sessions, abstracts or events,
- access recordings and other associated files,
- join the live Zoom session
- browse maps and
- ask questions or comment on a session or abstract.

How to change the time zone

- To view the schedule of the meeting and the Live Event (Zoom) links in your time zone, simply click on the clock icon at the top of the page and select your time zone.

Meeting Time Zone - MDT
My Time Zone - EDT
How to navigate the program
The navigation panel on the left has links to quickly access:

- Search,
- Technical Sessions,
- Other programs such as: (Nontech Events, Field Trips, Short Courses, Noontime Lectures, Special Lectures and Exhibitors,
- Presenting Authors,
- Sponsorship,
- Maps and
- Help Desk.

How to navigate our Search Engine
The filters in Search can be your best friend!

There are many different types of filters located on the left side navigation panel that can assist in narrowing down your search and can be used simultaneously in any combination. They are:

- Type,
- ePosters,
- Time,
- Day,
- Presentation Type,
- Industry Tracks,
- Program,
- Discipline Category and
- Endorser

**Note that the numbers in parentheses indicate how many results the filter will show.

So, filters alone are helpful, but they still pull in quite a large amount of results. However, you can also enter keywords, author names, affiliations...into the search bar to narrow your search further. The search bar will help you save some time and perform
more precise searches. We have four different ways that you can input your search terms while conducting your searches.

1) To find results that will show any of your wanted search words.
   a. Type all wanted words in the search bar
   b. Ex: University of Michigan will show ALL results that contain the words “University”, “of”, and “Michigan”
   c. For a visual, you can refer to the image below. Notice how the first result has “University” but no “Michigan”. The second result has “Michigan”, but it is Michigan Technological University instead of University of Michigan

As you can see, this filter will give you a very wide range of results.

2) To find results that will show the exact wanted words for phrases
a. Type the words or phrases **inside of quotations**
b. Ex: “University of Michigan”
c. Refer to the image below for a visual

As you can see, this filter will help you narrow down your searches to the exact phrase or word that you are looking for!

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3) To find results that will show **all** the words that you are looking for
a. Type in your words in the search bar but **separate them with plus (+) signs**

b. Ex: University + Michigan

c. Refer to the image below for a visual

As you can see, this filter gave you search results that include both the words “University” **AND** “Michigan”, instead of results that show any searched words as shown in the first option.

<table>
<thead>
<tr>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>University + Michigan</td>
</tr>
</tbody>
</table>

4) To find results that would **exclude** certain words
a. Type in your desired words in the search bar, **separate the excluded word with a minus (-) sign**

b. Ex: earth science -environmental

c. Refer to the image below for a visual

As you can see, this filter gave you search results that exclude the word “environmental”

---

**Search**

```
earth science -environmental
```

---

**How to navigate the Technical Programs**

The Technical Programs link located on the Navigation Panel on the left side of your screen will let you browse all the scheduled programs and sessions by date and time.

When you first land on this page, you will see links to all the dates of this meeting.

Once you click on one of those dates, an entire list of scheduled programs and sessions will be shown and organized by time. The names of the session are highlighted in yellow in the visual below.
Each program is also color coded for a better visual! There are only two in the image below. A list of color for each program is located in the Programs link.
Each session is also a link. Once you click on the title of a session, it will take you to a comprehensive list of the abstracts organized by presentation time within that session.

**139 - D23. Paleontology: Recent Developments in Diversity, Extinction, and Origination**

- **Tuesday, 11 October 2022**
- **8:00 AM - 12:00 PM**
- **Colorado Convention Center - Mile High Ballroom 4C**

**Presentations**

- **139-1: EXTINCTION-INDUCED CHANGES TO MOROCCAN REEF ECOLOGY IN THE EARLY JURASSIC**
  - **STONE, Travis**, MARTINVILLE, ROSEN, FORRESTER, VANNEUIJN, RAGHAV, LATHAM, BARAFF, and WILLIAMS, Clare.
  - (1)Department of Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin, 2035 Speedway, Stop C1755, Austin, TX 78712-0300, (2)Department of Geological Sciences, Jackson School of Geosciences, University of Texas at Austin, 1 University Station, C1105, Austin, TX 78712-0300, (3)University of Lorraine, Nancy, 54092, France
  - **Colorado Convention Center - Mile High Ballroom 4C**

- **139-2: PLANT TAXONOMIC TURNOVER AND DIVERSITY ACROSS THE CRETACEOUS-PALAEogene BOUNDARY IN NORTHEASTERN MONTANA**
  - **WILSON DEBEL, Pope**, Burke Museum of Natural History and Culture, University of Washington, Box 351800, Seattle, WA 98195, WILSON BABBEL, Gregory P., Burke Museum of Natural History and Culture, University of Washington, Box 351800, Seattle, WA 98195, Department of Biology, University of Washington, Life Sciences Bldg 108, Seattle, WA 98195, and STRICKBERG, Caroline, Department of Biology, Burke Museum of Natural History and Culture, University of Washington, Box 351800, Seattle, WA 98195
  - **Colorado Convention Center - Mile High Ballroom 4C**

Each abstract title is also a link. Once you click on an abstract title, it will then take you to a page with information of when and where the abstract will be presented along with more details about that abstract.

**139-1 - EXTINCTION-INDUCED CHANGES TO MOROCCAN REEF ECOLOGY IN THE EARLY JURASSIC**

- **Tuesday, 11 October 2022**
- **8:00 AM - 8:15 AM**
- **Colorado Convention Center - Mile High Ballroom 4C**

**Abstract**

Mass extinctions in the early Mesozoic were foundational to the development of modern marine communities such as coral reefs. Two Early Jurassic extinctions, the Pliensbachian/Turonian (P/T) boundary event and the Toarcian Oceanic Anoxic event (T-OAE), caused one of the most severe reef collapses of the Paleozoic. Current research of the effects on shallow water reef ecosystems during these extinctions lacks the resolution necessary to either quantify the ecological changes they caused or determine how specific extinction drivers (e.g., acidification, ocean warming) influenced ecological shifts.

In the Central High Atlas Mountains of Morocco, we have been able to thoroughly sample reefal units from multiple locations and facies across the Early Jurassic. The Moroccan shallow water environments experienced severe carbonate factory collapses during both the P/T and the T-OAE. During these events, an increase in continental weathering caused thick siliciclastic deposits as well as a pause in reef growth. After each extinction, the biotic structural components of the reefs changed, giving insight on how extinction drivers impacted those taxa at the time of their crest. Following the P/T, there was a shift from a mix of coral-dominant and lithid bivalve-dominant reefs to predominantly lithid bivalve reefs. Following the T-OAE, lithoids went extinct and coral-dominanted reefs returned to the platform.

An ongoing quantitative point count analysis of more than 250 thin sections will allow us to determine more specific structural and ecological changes that occurred within reefs, as well as assess how the roles of certain taxa changed during this time. Occurrence and volumetric composition data will be used to quantify the differences in reef facies between time intervals. Detailed palaeontological analyses of reef compositional and structural change across these two extinctions will allow us to determine what role extinction drivers such as acidification, sediment influx, or rising ocean temperatures, played during each event and correlate those drivers with their effects on the faunal community and structure of the reefs.

Geological Society of America Abstracts with Programs. Vol. 54, No. 5, 2022
doi: 10.1130/abs2022AM-381035
You will also see the Abstract Summary, the list of Authors, links to Related Sessions, links to Technical Sessions, and Similar Abstracts.

The links to Related Sessions and Similar Abstracts are especially useful to quickly navigate to other abstracts or sessions within the topic that you are interested in!
How to navigate the schedule by day

Within the Schedule link, you can see the schedule for an entire day by simply choosing the appropriate date. You can also filter it by In-Person presentations, Virtual presentations, Recorded (sessions that will be recorded via Zoom), and On Demand.

<table>
<thead>
<tr>
<th>MON</th>
<th>TUE</th>
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<th>THU</th>
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<td>09</td>
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</tbody>
</table>

Here, you can see the schedule of each program by day. Like the Technical Programs link, each title is a hyperlink and will lead you from a session to each abstract within that session.

You can also see information for Non-Tech events, like the time and location of the Check In Desk, GSA Student Volunteer Office, etc.

How to navigate Programs

The Programs link will show you a list of all available programs in their respective colors! These colors are also seen where programs are displayed in all the other Navigation links throughout the online and mobile apps.

### Programs

#### Technical Sessions
- Discipline Sessions
- Pardee Keynote Sessions
- Special Sessions
- Topical Sessions
- All Technical Sessions

#### Other Events
- Field trips
- Nontech Events
- Noontime Lectures
- Short Courses
Each program title is a hyperlink to a schedule of when and where the sessions within each program are scheduled.

Monday, 10 October 2022

8:00 AM - 12:00 PM

72 GSA Geophysics and Geodynamics Division 50th Anniversary Special Session and George Woollard Lecture I

Kevin Mickus, Geology, Missouri State University, Springfield, MO and Ting Chen, Los Alamos National Laboratory, Los Alamos, NM

Colorado Convention Center - 205

1:30 PM - 5:30 PM

106 GSA Geophysics and Geodynamics Division 50th Anniversary Special Session and George Woollard Lecture II

Kevin Mickus, Geology, Missouri State University, Springfield, MO and Ting Chen, Los Alamos National Laboratory, Los Alamos, NM

How to navigate Exhibitors

The Exhibitors link will show you a list of all exhibitors that are present at the conference.
Each exhibitor’s title is a link to information about where their booth is located.

How to navigate Presenting Authors
The Presenting Authors link provides a list of all presenting authors in alphabetical order. You can also do a quick search in the alphabet bar on the top of the page that is organized by the authors’ last names.

How to navigate Sponsorship
The Sponsorship link display all the 2022 Meeting Sponsors that helped make this conference happen!
How to navigate Meeting Resources
The Meeting Resources link shows all the services and accommodations centers’ location and business hours that you might need throughout the duration of the conference!

How to navigate Maps
The Maps link gives you a list and visual of all available locations that you might need to find! Each name is a hyperlink to a more detailed picture of the desired location.
How to navigate Help Desk
The Help Desk link display information on Session Access, Session Recordings, Time Zones, Troubleshooting, and Zoom tips!

How to navigate Code of Conduct
The Code of Conduct link takes you to geosociety.org where a detailed description of Events Code of Conduct is located!

How to navigate Technical Support
The Technical Support link takes you to our Feedback Form. This form is used to report technical problems or to provide feedbacks on our system! All you need to do is provide an email address and a description of your problem or feedback in the Comments box. We also provide an option to attach an image in order to help us understanding the issue better.