

GRAND JUNCTION GEOLOGICAL SOCIETY

www.gjgs.org

JANUARY MEETING

WEDNESDAY, JANUARY 25, 2023

Joint meeting with the CMU Geology Students

7:30 PM

Sacomanno Lecture Hall

(Room 141 in the Wubben-Science Building)

Patty Webber

**Economic Geologist, Wyoming State Geological
Survey**

Will Speak On

**“Critical Minerals Research in Southern
Wyoming”**

**The abstract of the talk and the speaker’s biography are on
the next page**

Guests Are Always Welcome

**The presentation will be by Zoom but come to the meeting to
meet with your colleagues. The Zoom instructions follow the
abstract and bio.**

Dues are due! Please see note following the Zoom instructions.

Abstract: Wyoming has an extensive history of mining and mineral exploration. Precious and base metals have been pursued for the past 170 years, while fossil fuels, uranium, and trona have played an important role in the state's economy for the better part of the last century. Modern mineral investigations are beginning to turn towards critical minerals, which have come into the spotlight recently as global demand for greener energy sources and new technology rapidly expands. Since critical minerals are considered essential to economic and national security, are vulnerable to supply disruptions, and are largely acquired from foreign sources, the federal government has allocated significant funding to investigate the distribution and potential for these minerals across the United States. The state of Wyoming has followed suit. For the past several years, the Wyoming State Geological Survey has been researching critical mineral potential in the Laramie Mountains through the U.S. Geological Survey's Earth Mapping Resources Initiative (Earth MRI) program. Two similar projects have also been funded through the Earth MRI program, which are slated to start early 2023 and will focus on the Medicine Bow Mountains and the Phosphoria formation in western Wyoming. Upcoming geophysical surveys over the Medicine Bow and Sierra Madre mountains and in central Wyoming will complement these geochemical sampling campaigns.

Patty Weber bio. Patty Webber is a geologist on the Energy and Minerals team at the Wyoming State Geological Survey. She joined the survey as a contract geologist in 2018 to map in the Granite Mountains, was brought on as a full-time geologist in 2019, and has recently started a new role as the economic geologist for the WSGS. She has a Bachelors in geology from Purdue University and a Masters in geology from the University of Iowa, with a background in tectonics, structural geology, and geochronology. Her work integrates these skillsets with mapping and geochemistry to investigate mineral resource potential, particularly in igneous and metamorphic rocks.

Andres Aslan is inviting you to a scheduled Zoom meeting.

Topic: **Grand Junction Geological Society meeting**

Time: Jan 25, 2023 07:30 PM Mountain Time (US and Canada)

Join Zoom Meeting

<https://coloradomesa.zoom.us/j/96314918024?pwd=TzQ5TlhXZWWhxYStUd3BiNWWuMHVCUT09>

Meeting ID: 963 1491 8024

Passcode: 331433

One tap mobile

+17193594580,,96314918024#,,,,*331433# US

+12532158782,,96314918024#,,,,*331433# US (Tacoma)

Find your local number: <https://coloradomesa.zoom.us/u/adSewFLm0p>

Dues are due for calendar year 2023!

The Council has determined that the yearly dues will remain at \$15 for members and free for CMU students.

Please either bring a check or cash to the meeting or send it to:

Grand Junction Geological Society

P.O. Box 4045

Grand Junction, CO 81502-4045

Make the check out to the Grand Junction Geological Society Foundation, which is a tax-exempt 501(c)(3) organization, so you can deduct it from your taxes as a donation.

We are working to set up a way to pay digitally, but it is not yet operational. The necessary connections have been made to our bank account, but our web master still needs to add the code and buttons to our web site.