



Department of Geological Sciences
UNIVERSITY OF COLORADO **BOULDER**

Advising Reminder

Now is a great time during the semester to check in with your Advisor. Plan out your next semester, get help with degree requirements, or ask for help with academic challenges. Your advisor's open hours can be found on Buff Portal Advising, where you can also make an appointment. Don't wait, as spots fill up fast during enrollment.

**Visit Buff Portal
Advising**

Talks and Colloquium



Geological Sciences Colloquium Speaker

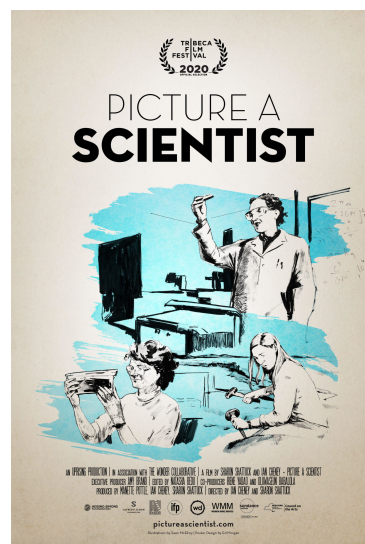
On Wednesday, October 23rd, Dr. Shawn McGlynn will be visiting as a colloquium speaker. His topic is: Metabolic and molecular inquiries into the geochemistry and biochemistry of early life. As always, snacks and drinks will be available at 12:00 and the talk will begin at 12:30. Stop by Benson 380 to listen in.

**View Colloquium
Schedule**

Department Events

Picture A Scientist

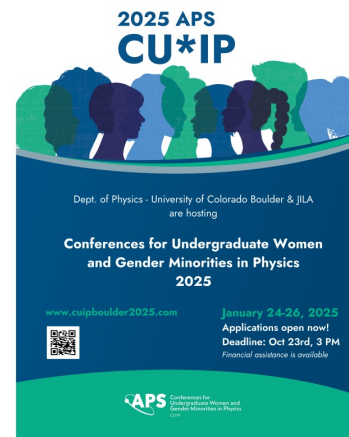
The BAJEDI Committee will be hosting a showing of the Picture A Scientist documentary next Wednesday, Oct 23rd from 4:30 - 7 pm in BESC 380. There will be drinks and light snacks provided.



University Events

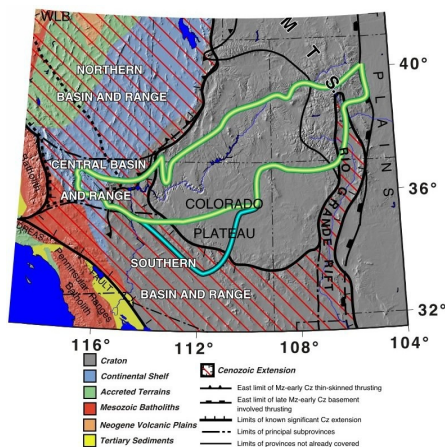
CU*IP Conference

University of Colorado Boulder will be one of 15 institutions hosting the APS Conferences for Undergraduate Women and Gender Minorities in Physics (CU*iP) from January 24-26, 2025. CU*iP aims to unite successful physicists who identify as women or gender minorities with over 2,000 undergraduates to showcase career opportunities and the invaluable contributions of women and gender minorities in physics. The conference will offer numerous opportunities for networking and engagement. The application site is open until **5PM ET on Wednesday, October 23, 2024**.



Learn More and Apply

GEOL Field Classes



Field Seminar in Geology and Tectonics - GEOL 4717/5717

Dr. Craig Jones, 2 credits, Spring 2025.
Organizational meeting: TBA for what class meetings there are during the term, but **most of the class will be a week long field trip over spring break (3/20-3/29/25)**.

The western U.S. has had a varied and complex geologic history providing considerable insight into tectonic processes important in earth history. The core of this class is a trip to visit many important sites where these processes are visible. Each student will present mini-

Field Methods in Geomorphology - GEOL 4725

Dr. Irina Overeem, 2 credits, Spring 2025.
Classroom Meeting Time: 3-5pm Friday 02/28, 03/07, 03/14, 04/04 and **six field days over Spring Break, over the period, 3/22- 3/30/25, 8am-5pm**.

The focus of this course is on modern Earth Surface Processes and Hazards. We will study hillslope erosion, streams and rivers, sediment transport, mass movements and landscape change. This year's topic is "floods, wildfires and geomorphological change" and we will learn about extreme precipitation events, wildfire impacts on hillslope erosion processes, flash floods, debris flows and landslide hazards. This

seminars on the outcrop for a couple of sites. Students will pick these topics from a list to be provided. A set of references to get started will also be provided. After lectures on the regional geology and doing library research, students will research their topics and assemble the material needed for their field presentation. A couple of class meetings will precede the trip to establish logistics and go over the field presentations.

class teaches collection of geomorphic and sedimentary data, deployment of modern self-contained data loggers, and UAV/drone data. We will also learn how to work with river/stream hydraulics instruments (ADCP) to measure stream velocity and discharge.

Our study sites are in the Front Range, with emphasis on Spruce Gulch in Lefthand Canyon. Class has less of a carbon footprint, with local travel days only. We will hike, volunteers will paddle or wade in Front Range rivers, and all will be outside a lot, but we will not camp.

[Learn More](#)

[Learn More](#)

[Register for Classes on your Buff Portal](#)

University Programs

New Venture Launch

New Venture Launch is a Spring 2025 application-based class for cross-disciplinary teams, individual founders, and entrepreneurially focused students who are driven to succeed in a startup ecosystem. Applications are due **October 21st**.



[Learn More and Apply](#)

Volunteering Opportunities



New Frontiers Conference

The GEOL Department needs volunteers to help with its inaugural geoscience research conference, New Frontiers in Translational Geoscience, on Saturday, November 9, 2024! Volunteers can help with moving materials to/from Benson, setting up signs and food before/during the conference, staffing the registration desk, and cleaning up after the conference. Please sign up to be a volunteer by October 22nd.

[Sign Up](#)

Scholarships and Stipends

Rich Herbert Memorial Scholarship

Offered through the Colorado Section of the American Water Resources Association, this scholarship is open to undergraduate students. It is geared towards students with involvement in research or independent study pertaining to hydrology, engineering, hydrogeology, geomorphology, aquatic biology, water law, water-resources policy or planning, environmental science or other topics concerning water resources in Colorado. The application deadline is **January 10th, 2025**.



[Learn More and Apply](#)

Student Jobs and Internships



Antero Internship

Antero Resources Corporation (“Antero”) is an independent oil and natural gas company engaged in the exploration, development, and production of natural gas, NGLs, and oil properties located in the Appalachian Basin. The 2025 Summer Internship Program will provide successful candidates with a relevant and immersive work experience. Internships will be based in Denver, CO or Bridgeport, WV and consist of opportunities across several departments including but not limited to Accounting; Drilling & Completions; Finance; Geology; Health, Safety, Security and Environmental (HSSE); Land; Legal; Midstream; Reservoir Engineering & Planning and Water.

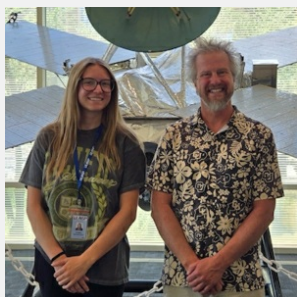
[Learn More and Apply](#)

Cores to Code (C2C) is a 3-week paid summer research experience that will delve into the interdisciplinary study of the earthquake and tsunami history of the Cascadia subduction zone. The program will be based out of Cal Poly Humboldt, a minority-serving institution. Students will conduct geologic fieldwork in Humboldt Bay coastal marshes, collect marsh sediment cores, conduct laboratory analysis on the cores, and explore how these geologic data are integrated into the geophysical models that help characterize past earthquakes along the Cascadia subduction zone. At the end of the program, students will synthesize and present their findings to their peers, mentors, and local community. C2C seeks a broad applicant pool with the goal of engaging a new, diverse generation of coastal geologists and modelers. The application deadline is **February 15th, 2025**.



**Learn More and
Apply**

Department News and Features



Two CU Boulder Geological Sciences students have been awarded the 2024 Charles A. Barth Scholarship for undergraduate space research. Sydney Ciechanowicz, triple major in astrophysics, geology, and molecular, cellular, and developmental biology, with minors in biochemistry and chemistry, is working with LASP research associate and CU Boulder Geology Professor Brian Hynek. They are studying the effects of temperature



University of Colorado Boulder
Boulder, Colorado



#4 in World, Geosciences



#1 City for Green Startups (Promoleaf)



#8 in Aerospace Engineering Sciences

CU Boulder and the Big 12 have just released "The Matchup", a webpage promoting the academics at the schools competing in the week's football matchup. For the 10/12 matchup with Kansas State, the top academic program featured was our Geosciences Department. The webpage ranks the CU Boulder Geological Sciences program as **#4** in the world!

and pH in a Martian analog hydrothermal system in Costa Rica to better understand the astrobiological potential in these extreme conditions. Shelby Opp, double major in astrophysics and geophysics, is working with LASP research associate and APS Professor David Brain. They are searching for magnetized craters on Mars' surface using data from NASA's MAVEN mission to characterize the relationship between magnetic crustal field strength and Mars topography.

**Read
More**

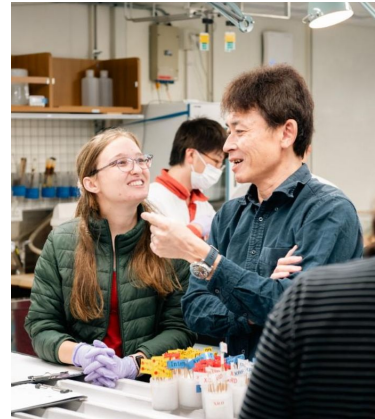
View Matchup

IDOP Blog and Broadcast

Catherine Ross, a postdoc in the department, is sailing on an IODP (International Ocean Discover Program) expedition offshore Japan. She is blogging and broadcasting the experience, so check out the buttons below!

Read the Blog

**Watch the
Broadcast**



Miss a Newsletter?

Check out past newsletters at [this link](#)!

Just So You Know...

The undergrad newsletter will be sent out each Thursday at noon, so check back weekly for news, job and funding opportunities, and messages from your faculty. If you have something you would like to share in a future edition of the newsletter, please email geoloffice@colorado.edu.



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