FALL 2022
GEOLOGY & ENVIRONMENTAL GEOSCIENCES
STUDENT MEETING

September 23, 2022
Department Chair
Dr. Timothy Callahan
callahant@cofc.edu
Monday - Friday
Time Varies

Student Assistant
Abbey Vohs
vohsaj@g.cofc.edu
Monday: 2:30 pm - 5:30 pm
Tuesday: 8:30 am - 10:30 am
& 2:15 pm - 3:45 pm
Thursday: 2:00 pm - 5:30 pm
Friday: 2:30 pm - 5:30 pm

Office Manager
Kristen White
whitekl@cofc.edu
Monday, Wednesday, Thursday:
10:00 am - 6:00 pm

Department News and Updates are frequently posted
on Instagram and Twitter.
Follow the handles below to stay in the know:

cofcgeology
cofcgeology
TRIVIA

Swag prizes for 1st, 2nd, and 3rd place
1. Who is the Geology Club President?
2. How many roster faculty members are in the department?  
*Bonus: How many go by their middle names?  
*Bonus 2: Which roster faculty member recently retired and now teaches as an emerita faculty?
3. What is SGE?
4. What is the name of the large flying specimen hanging in the SSMB atrium?
5. During which decade was the department founded?
6. What are the names of the two department dinosaurs (our mascots)?
7. What is the unique gift given to seniors during the Senior Roast?
8. What is the room number of the student study room?

*Bonus: How can you get access to the student study room?
9. What is special about SSMB's architecture as it relates to natural hazards (specifically earthquakes)?
10. How many majors and minors does the department offer?
1. Who is the Geology Club President?
Answer: Ann-Frances Cowgill
2. How many roster faculty members are in the department?

*Bonus: How many go by their middle names?

*Bonus 2: Which roster faculty member recently retired and now teaches as an adjunct retiree?
Answer: 14
*Bonus Answer: 4
*Bonus Answer 2: Dr. Leslie Sautter
3. What is SGE?
Answer: Sigma Gamma Epsilon
4. What is the name of the large flying specimen hanging in the SSMB atrium?
Answer: Pteranodon
5. During which decade was the department founded?
Answer: the 1970s
6. What are the names of the two department dinosaurs (our mascots)?
Answer: Tri-Sarah-Tops and Roxy Rex
7. What is the unique gift given to seniors during the Senior Roast?
Answer: an "Aloha" or hula shirt
8. What is the room number of the student study room?

*Bonus: How can you get access to the student study room?
Answer: SSMB 227

*Bonus Answer: Scan the QR code on the door of SSMB 227
9. What is special about SSMB's architecture as it relates to natural hazards (specifically earthquakes)?
Answer: SSMB has special cross-beam supports to help stabilize the building if there were to be another earthquake in Charleston.
10. How many majors and minors does the department offer?
Answer: 3 majors and 2 minors
(will accept 2 majors and 2 minors)
DEPARTMENT REMINDERS

Create a Handshake Account!

- As an Equal Employment Opportunity (EEO) employer, many College of Charleston student employment opportunities are posted in Handshake. Students who wish to consider on-campus employment, including future employment opportunities in the Department of Geology & Environmental Geosciences, should preemptively create a Handshake account as account approval by the Career Center is required for employment.

Student Computer Lab Access, SSMB 227

- The student study room, SSMB 227, is available to Geology & Environmental Geosciences department majors and minors. Scan the QR code on the door of SSMB 227 to request Cougar Card swipe access.

Spring 2023 Registration: November 1

- Opens Tuesday, November 1st based on credit hours. All GEOL and GENV majors have advising holds. Students should contact their advisor to set up an advising appointment.
DEPARTMENT REMINDERS

Career Fair and Graduate School Expo: October 6
- Fall Career Fair & Graduate School Expo on Thursday, October 6 in TD Arena from 1:00 pm - 4:00 pm.
  - An excellent opportunity for our students to meet with company representatives who are interested in hiring interns, as well as part-time and full-time employees. The Career Center continues to add companies and graduate schools daily and students can view updated company and organization details in Handshake.

Paid Student Research Opportunity
- Dr. Steve Jaume is looking for up to three undergraduate students to help him with fieldwork and data analysis for his ongoing seismic research.
  - $12 per hour
  - Fieldwork is as needed every two months (from October to April) with a potential for more hours in May.
  - Looking for availability on Tuesday mornings, anytime Thursday, and weekends
Alumni + Student Mixer Weekend: October 13-15

- Save the date for a Geology & Environmental Geosciences student and alumni networking weekend! This is an excellent opportunity to learn about potential career paths, talk with people who have been in your shoes, and get guidance and tips for your career!
  - Thursday, October 13: Welcome mixer and oyster roast at Holy City Brewing from 4:00 pm - 7:00 pm.
  - Friday, October 14: Career panel featuring alumni, mock recruiting and networking in SSMB from 2:00 pm - 4:00 pm and then Nacho + Taco Hour at Juanita Greenbergs at 4:30 pm.
  - Saturday, October 15: TBA
Held every spring to celebrate our graduating seniors!
Faculty "roasts" seniors with superlatives
Seniors are "shirted" with aloha shirts
  - Aloha: hello and goodbye
ALL students welcome to attend - juniors + sophomores + freshmen!
Spring 2022 Senior Roast was held at Charleston Beerworks, our first traditional Senior Roast since 2019!
FIELD STUDIES REQUIREMENT
GEOL B.S. AND GENV B.S.

SUMMER 2022

GEOL 360 Field Studies in Geology: Dr. John Chadwick and Caitlyn Bierce led students in a three-week field experience in the Western U.S. that included geologic mapping and interpretation using topographic base maps, aerial photography and satellite imagery.

GEOL 362 Field Studies in Environmental Geosciences: Dr. Vijay Vulava and Dr. Mitchell Colgan travelled with their students along the Colorado River for nearly 1000 miles while assessing the geological history of the region, the management of geological resources along the river.

GEOL 366 Field Studies in Paleontology: Dr. Scott Persons and his students spent three weeks in Glenrock, Wyoming where they found triceratops bones, fossilized leaves and the longest tyrannosaur trackway ever discovered!

SUMMER 2023

GEOL 365 Field Studies in Geology and Environmental Geosciences in South Africa
Domestic offerings coming soon!
The Geology Club is a student-led organization aimed at providing a community for Geology & Environmental Geosciences majors, minors, and other interested students. Students do not need to be a major or minor in the department to join - invite your friends!

**Next meeting:** TODAY, September 23
4:15 pm in SSMB 211

Email Ann-Frances Cowgill
cowgillaj@g.cofc.edu
to join the GroupMe for club updates.

Participate in events and meetings this semester to be entered into the Geology Club Fall semester raffle!
SIGMA GAMMA EPSILON

Mission:
- Scholarship & professional networking in the Earth Sciences
- Emphasis on professional growth & social & educational advancement

Membership Requirements:
- 10+ credits in GEOL courses
- 3.00 GPA in GEOL courses
- 2.67 overall GPA
- $25 initiation fee
- $55 lifetime membership fee

For more information email Brad Thompson, thompsonbb@cofc.edu
PROGRAMS OF STUDY

MAJORS
GEOL: B.S. or B.A. Geology
GENV: B.S. Environmental Geosciences

MINORS
GEOL: Geology
GEOI: Geoinformatics
SPRING 2023 COURSES
*Tentative

- GEOL 103: Environmental Geology
- GEOL 105: Earth History
- GEOL 107: Intro to Coastal & Marine Geology
- GEOL 206: Planetary Geology
- GEOL 239: Intro to Seafloor Mapping
- GEOL 250: Intro to Geochemistry
- GEOL 260: NASA Space Mission Design
- GEOL 272: Stratigraphy & Sedimentation
- GEOL 291: Water Resources
- GEOL 312: Environmental Field Methods
- GEOL 313: Critical Zone Science
- GEOL 333: Paleobiology
- GEOL 339: Seafloor Research
- GEOL 402: Geospatial Science
- GEOL 412: Crustal Geophysics
- GEOL 460: NASA Space Mission Leadership
- GEOL 469: Advanced GIS - Environmental and Hazard Model
Structural Geology

Plate Tectonics: It's What's In Charge! - discussion on driving forces of plate tectonics and how they affect the rest of the world

Senior Seminar

Looking for students interested in using fracture patterns in the SE to map changes in stress through time & digitizing an igneous dike map of SC

Water Resources

- examines surface & groundwater availability, flow, quality, and sustainability with lab field trips
- Research on microplastics and tire wear particle pollution in urban stormwater systems. Gain skills in field sampling, microscopy, particle & chemical analysis, & science communication
- Contact if interested in professional societies - American Water Works Association, Water Environment Association of SC, or Society of Environmental Toxicology & Chemistry

- Water Resources
- Engineering Geology

- Structural Geology
- Plate Tectonics: It's What's In Charge! - discussion on driving forces of plate tectonics and how they affect the rest of the world
- Senior Seminar
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Earth Systems Science

Hydrology

- Department Chair
- Earth Systems Science
- Hydrology

Dr. Timothy Callahan

Dr. Adem Ali

Dr. Barbara Beckingham

Dr. Erin Beutel

ROSTER FACULTY & STAFF
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Dr. John Chadwick
- Mineralogy & Petrology
- High-temperature Geochemistry
- Volcanoes
- Remote Sensing
- Field Studies: Western US

Dr. Mitchell Colgan
- Stratigraphy & Sedimentation
- Global Change

Dr. Scott Harris
- Coastal & Marine Geology
- Field Methods

Robin Humphreys
- Introductory Lab Coordinator
- Environmental Geology
- Earth History
Dr. Steven Jaumé
- Geophysics
- Natural Hazards
- Running a 19 station seismic network in Summerville & recorded dozens of earthquakes including M 3.3 felt by many people
- Looking for research students who want to learn how to play with seismic data!

Dr. Scott Persons
- Paleobiology
- The Age of Dinosaurs
- Virtual Expedition in Paleontology
- Field Studies: Western US Paleontology
- Curator: Mace Brown Museum of Natural History

Dr. Norm Levine
- GIS
- Geospatial Science
- Environmental Pollution

Dr. Cass Runyon
- Planetary Geology
- NASA Space Mission Design
- Geomorphology
Dr. Teddy Them
- Marine Geology
- Paleoclimate
- Field Methods

Dr. Vijay Vulava
- Geochemistry
- Earth Systems Science
- Environmental Geology
- Geochemistry
- Field Studies: India

Sarah Boessenecker
- Museum Collections, Exhibits, and Outreach Coordinator
- Docent Coordinator: Mace Brown Museum

Dr. Afsoon Kazerouni
- Environmental Geology
- Earth Resources

VISITING ASSISTANT PROFESSOR
FALL 2022 ADJUNCT FACULTY & GRADUATE TEACHING ASSISTANTS

Caitlyn Bierce  Dr. Robert Bossenecker  Dr. James Carew  Claire Chadwick
Anton Dumars  Cyndi Hall
Michael Jordan  Lauren Maurizio  Dr. Leslie Sautter  Brad Thompson
Hailey Connell  Caroline Moore
Q & A