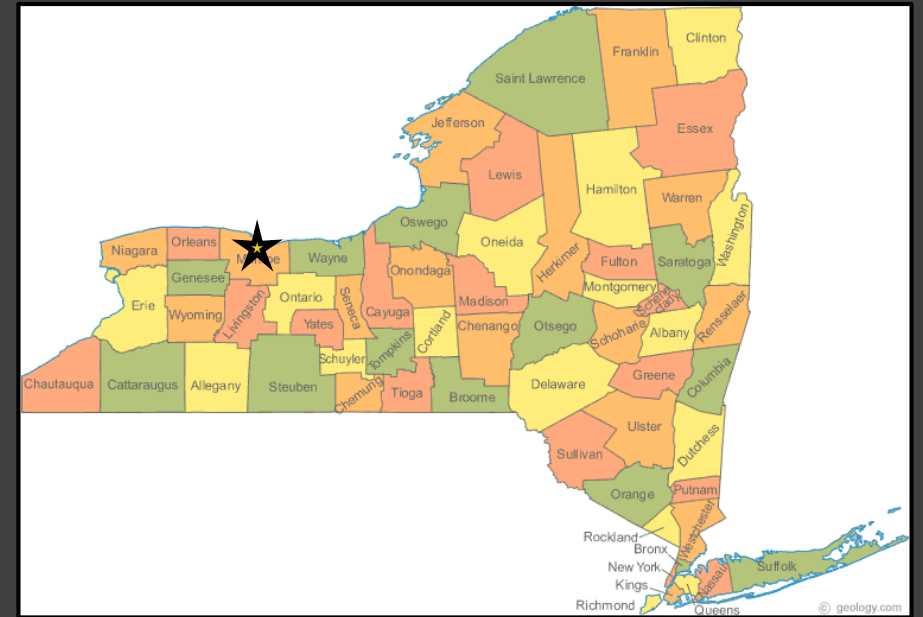


2YC FACULTY PROFESSIONAL DEVELOPMENT OPPORTUNITIES IGNITE STUDENT INTEREST AND PROMPT CURRICULUM EXPANSION



***Jessica Barone, Associate Professor
Monroe Community College
Department of Chemistry and Geosciences***

Faculty Professional Development Funding at 2YCs

Sources:

- ✓ Department PD funds
- ✓ Academic Dean/Vice President PD funds
- ✓ External or Internal Travel/Research Grants
- ✓ MCC Association

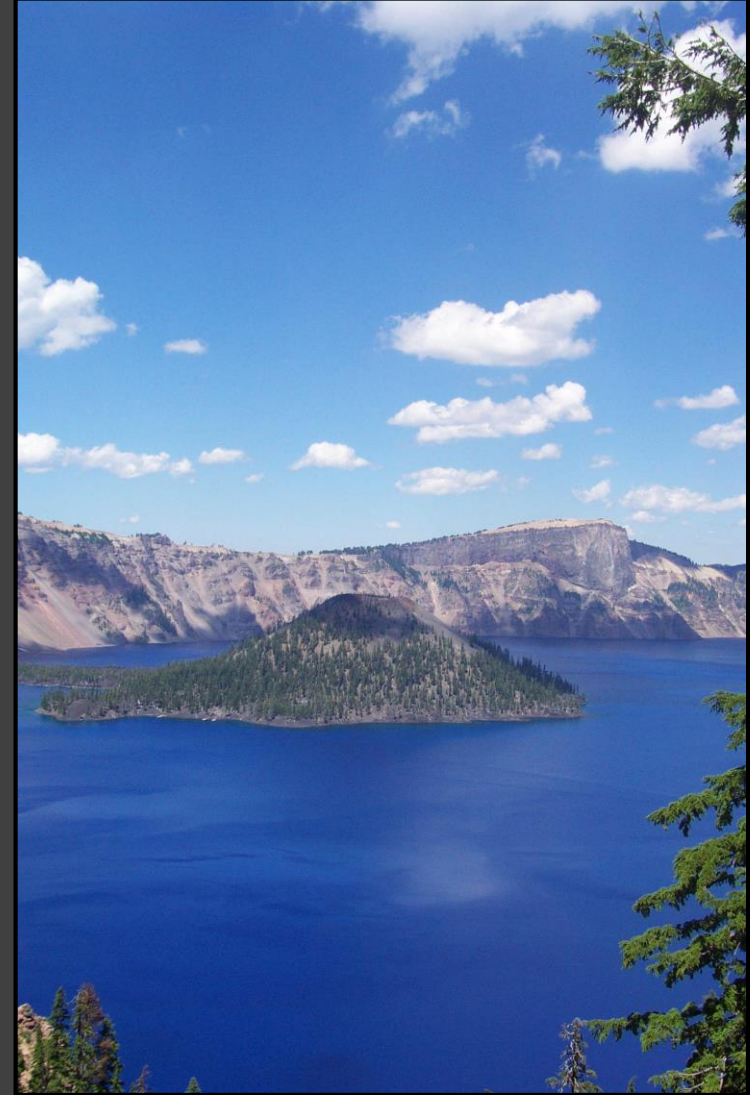
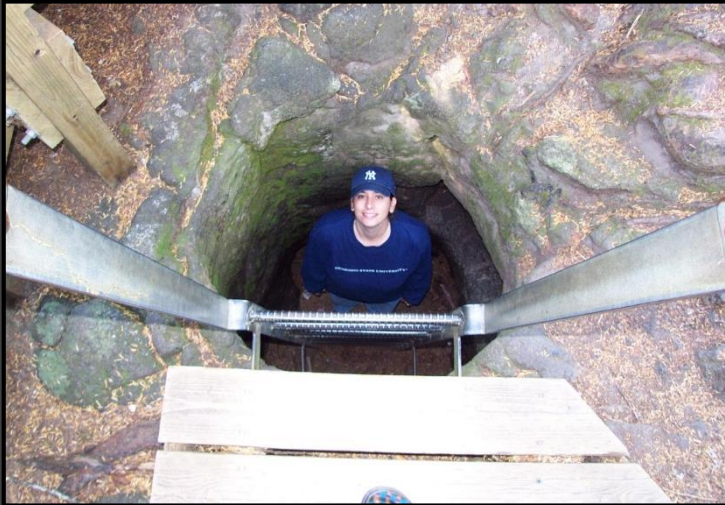
Incorporating PD Experiences into Physical Geology

- ✓ Fills natural science requirement
- ✓ Primarily non-majors, very few *intentional* students
- ✓ Challenging to keep interest and provide relevance
- ✓ Often where we “snag” geology majors but **HOW?**

.... PD experiences, photos, stories, etc.?

- ✓ Examples:

NSF Short Course *Mt. Shasta and Medicine Lake* + Self-guided Field Time

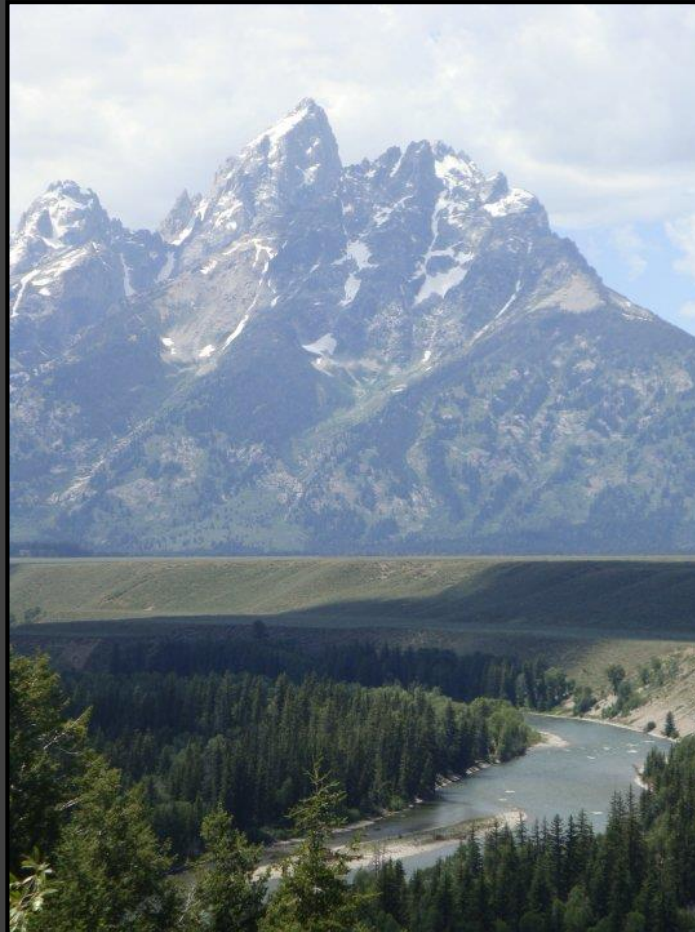


NSF Short Course *Geology & Thermobiology of Yellowstone*

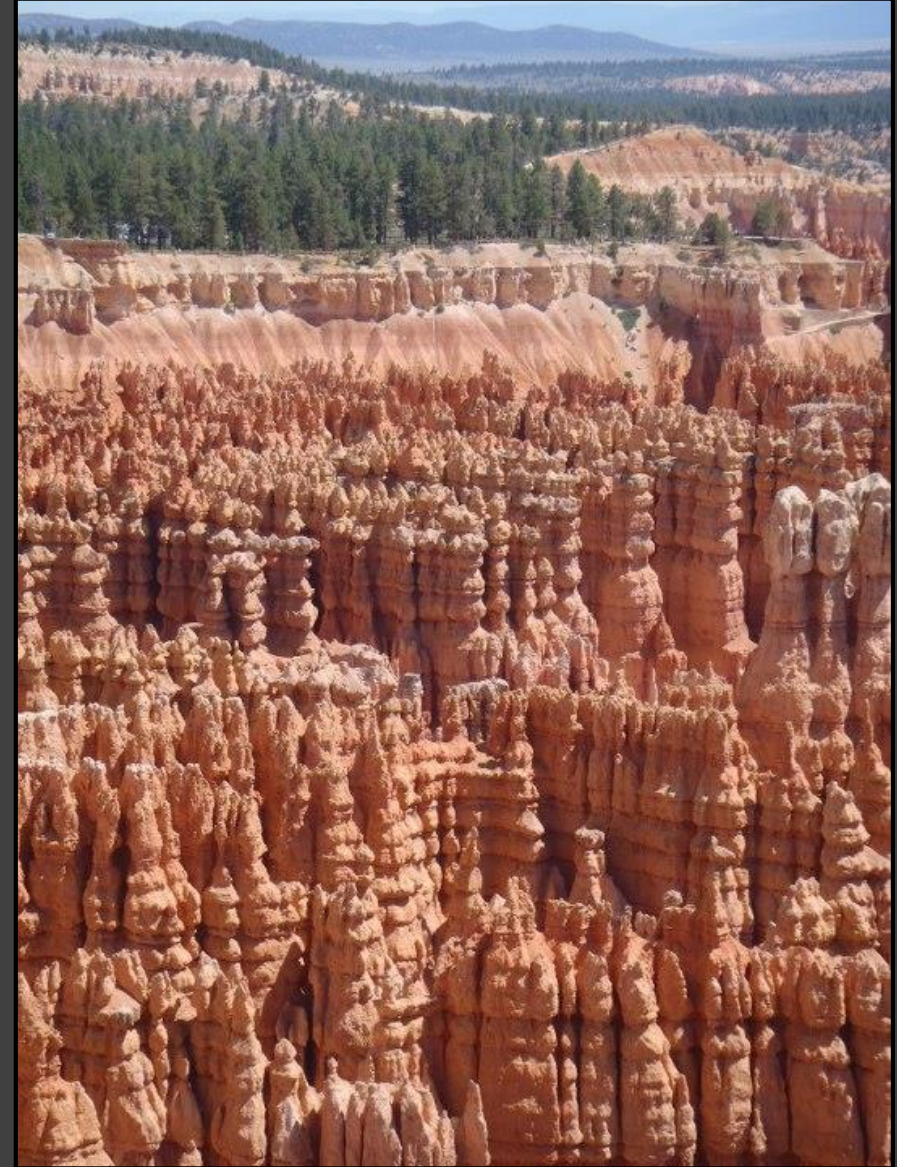
+ Geology Club Trip

+ Self-guided Field Course Planning

(Yellowstone Field Course)



Self-guided Field Course Planning (Colorado Plateau Field Course)

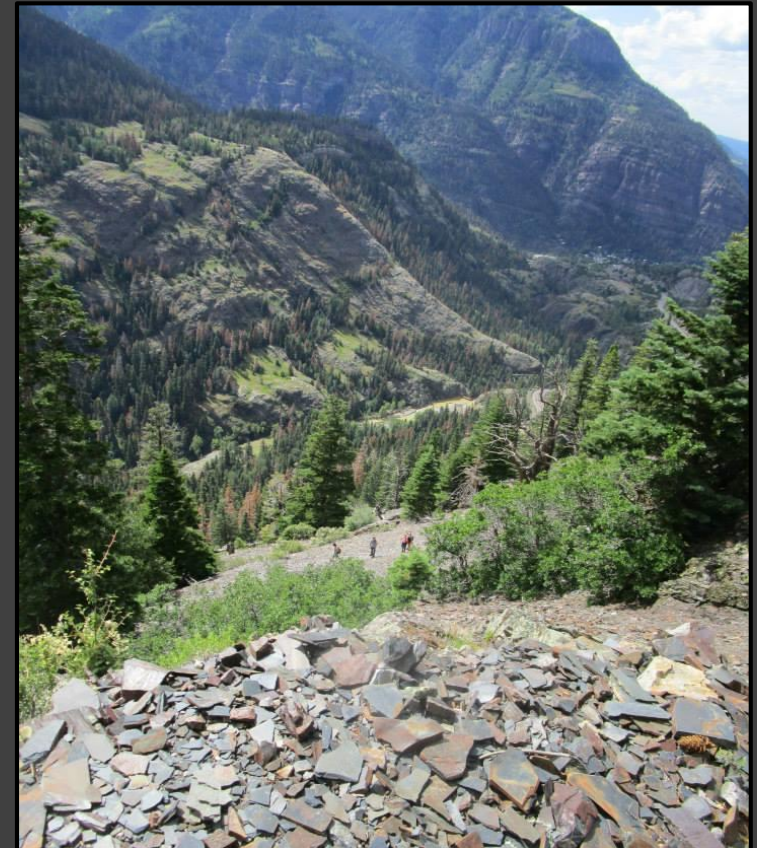


Geological Society of America (Denver, 2013)

+ Self-guided Field Time

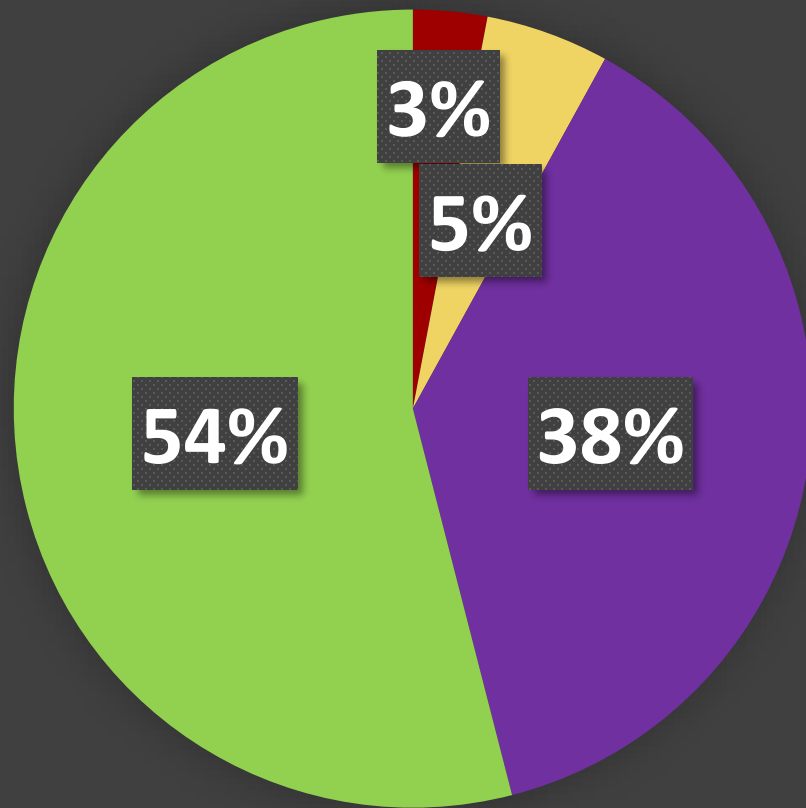


Field Course Audit *Geology of the Colorado Rockies*



Physical Geology Survey Results

Question: *I would prefer my professor present course material factually and out of the textbook instead of incorporating her own professional development experiences in the field.*



- Agree
- Somewhat agree
- Disagree
- Strongly disagree

Physical Geology Survey Results

Question: *I would prefer my professor present course material factually and out of the textbook instead of incorporating her own professional development experiences in the field.*

“Hell NO”

“Textbook. LAME”

“Who wants to learn from a textbook”

“ Her professional experiences keep class engaging”

“ Would make it more boring”

“Personal experiences and funny stories really do help me retain the information”

Physical Geology Survey Results

Question: *I would prefer my professor present course material factually and out of the textbook instead of incorporating her own professional development experiences in the field.*

“Hearing real experiences help to learn this course”

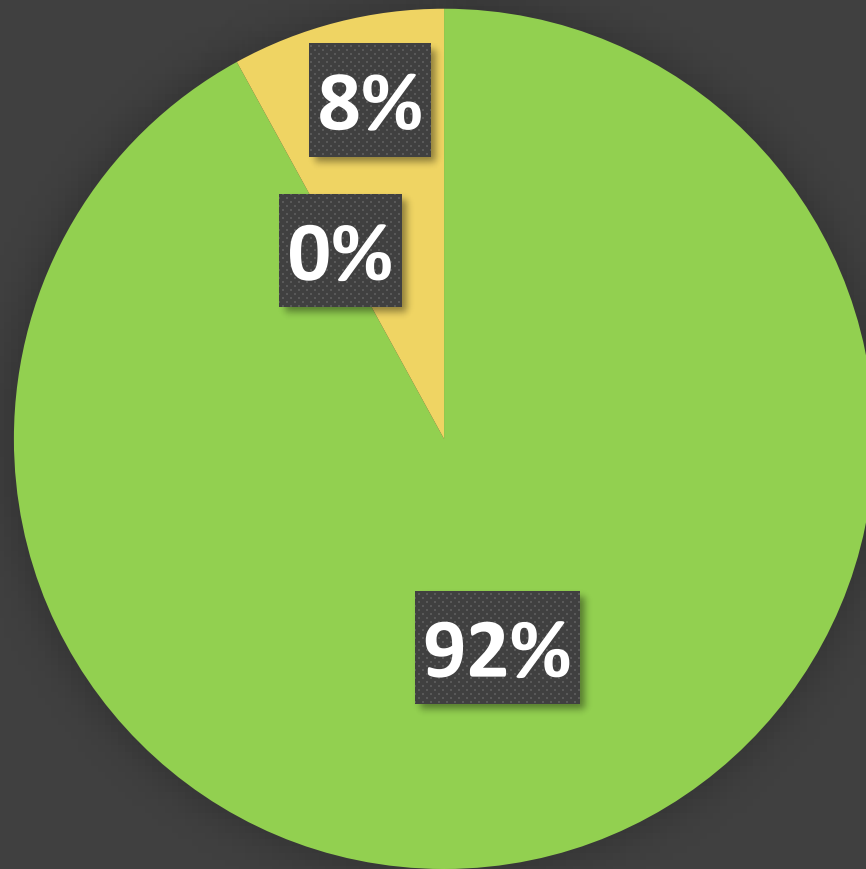
“The professional experiences help with understanding topics”

“Real life experiences always relate better”

“Decided to officially major in geology because of the intrigue professors bring”

Physical Geology Survey Results

Question: *The real life experiences presented by professors during course lectures:*



- Enhance my learning of course material
- Distract from my learning of course material
- Don't really affect my learning of course material

Physical Geology Survey Results

Question: *The real life experiences presented by professor during course lectures:*

“10/10 Please keep at it!”

“Very impactful, helpful, and beautiful”

“I find it more interesting and makes me want to go to all the places you show”

“It gives real world examples of things we learn about. I think it also makes somethings easier to remember if there’s a story behind it”

Physical Geology Survey Results

Question: *The real life experiences presented by professor during course lectures:*

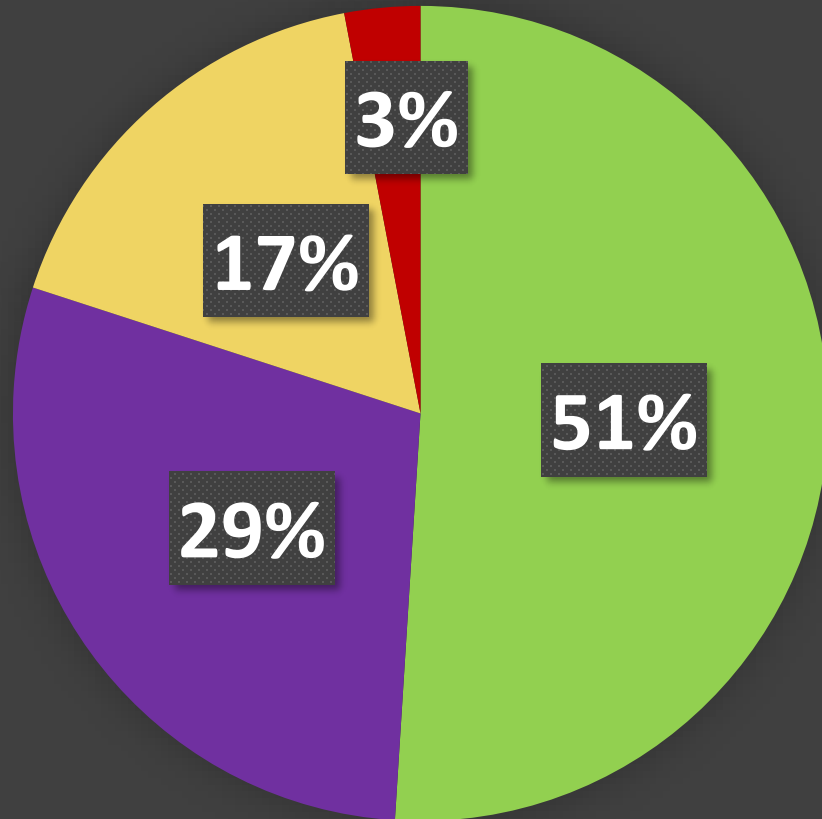
“I feel that the personal stories add a feeling of connection between what we are learning and real places”

“As a visual learner, it was nice to see what we learned in class in the environment”

“Make me excited to continue learning”

Physical Geology Survey Results

Question: *Seeing photos and hearing real-life experiences from my professor during lectures has positively influenced my decision to enroll in additional geology classes.*



- Agree
- Somewhat agree
- Disagree
- Strongly disagree

Physical Geology Survey Results

Question: *Seeing photos and hearing real-life experiences from my professor during lectures has positively influenced my decision to enroll in additional geology classes.*

“It is a possibility”

“Not that it’s not good but I’m going for music”

“You hear what kind of things we can experience out in the field if we choose to follow-up this line of work”

“I enjoy coming to class and hearing what she has to say but geology does not interest me enough to take more courses”

Curriculum Expansion and Degree Development

Multiple 200-level courses developed/enhanced by PD →

- ✓ *Field Studies in the Geosciences*
 - Yellowstone Supervolcano
 - Colorado Plateau
- ✓ *Geomorphology*
- ✓ *Geology of the National Parks*
- ✓ *Environmental Geology*
- ✓ *Geology of New York State*



Curriculum Expansion and Degree Development

→ Associate of Science Degree in Geology*



** requires a minimum of two 200-level Geology courses*

Faculty professional development:

- ✓ enhances student interest and learning of course content
- ✓ help students better understand the relevance of course content
- ✓ helps keep students engaged which may potentially improve student success and retention
- ✓ can contribute significantly to inclusion of new curriculum into existing courses as well as the development of and support for new courses and degrees
- ✓ inspires students to get out of the classroom and maybe take more geology courses!

Questions?