

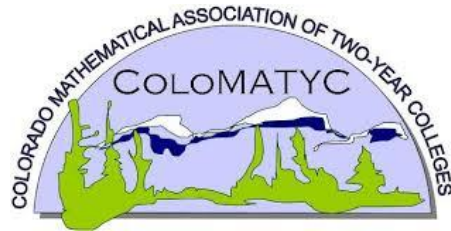
2024 ColoMATYC Conference

Colorado Mountain College

3000 County Road 114

Glenwood Springs 81601

April 19-20, 2024



Conference Schedule

Thursday Night Social

Thursday night from 7-9pm we will be meeting at [The Grind](#) (701 Grand Ave #101 (actually on 7th Ave), Glenwood Springs, CO 81601). Feel free to text me if you need help finding us 757.620.2646. Park on 7th Street.

Day 1

April 19 Friday Conference Schedule & Math Awareness Week

8:00-9:30 am	Registration in the Young Ascent Center, AC 110/120/130	
8:30-9:00 am	Breakfast and Coffee in the Young Ascent Center, AC 110/120/130	
Concurrent Morning Sessions		
Room	Calaway 222B (2nd floor)	Calaway 233 (2nd floor)
9-9:50 am	More Effective D2L Course Shells: Improve Performance and Impact Equity ~Johanna Debrecht RRCC	How MLB Players Use Real-Time Data to Enhance Their Game ~ Jason Vargas CMC
10-10:50 am	3D Printed Models and Lagrange Multipliers ~Brittini Lorton CCD	HIPs In and Beyond the Mathematics Classroom ~Ruth Thompson & Tracy White CMC
11-12pm	Student Panel! - in the Calaway Building New Space Theatre	
12-1:30pm	Lunch, Business Meeting and Elections in the Young Ascent Center, AC 110/120/130	

Concurrent Afternoon Sessions			
Room	Calaway 222B (2nd floor)	Calaway 233 (2nd floor)	Quigley Library 2nd Floor
1:45-2:35	Colorado Online @ Transition Updates / Discussion ~Eric Thompson CNCC & Johanna Debrecht RRCC	DAT - Data Science in Colorado ~Matty Watts RRCC	Escape Room 1-4pm (for students to participate and faculty to observe)
2:45-3:35	Colorado Math Pathways: Update for CCCS ~Rachel Sefton CCD	STEM-Ready: targeted Constructivist Math Modules to increase STEM Enrollment and Retention ~Colin Nicholls & Karon Klipple University of NM	

Day 2 - April 20
ColoMATYC & Math Awareness Week

Calaway Building New Space Theatre (Volunteers need to arrive by 9:30am)
10am-11am - Amazing Math Race
11-12pm - Math Family Feud
12-1pm - Lunch (not provided)
1-2pm - Math Jeopardy
2-3pm - Equation Solving Bee
Pizza Served After All Events

Breakout Sessions

[9-9:50am](#)

Room 222B: More Effective D2L Course Shells: Improve Performance and Impact Equity

Whether you teach online or face-to-face, an effective LMS (learning management system) course shell can improve performance and persistence and positively impact equity. By providing well organized, structured, and predictable course shells, your students will find the work and resources they need when they need them.

Presenter: Johanna Debrecht RRCC

Room 233: How MLB Players Use Real-Time Data to Enhance Their Game

With the advent of Statcast, Major League Baseball (MLB) constituents have gained unlimited access to real-time intricate player data, resulting in the breeding of players that regularly use pattern recognition, probability, and statistics. The presenter will discuss the data that is collected in Statcast and how players are likely using it.

Presenter: Jason Vargas CMC

[10-10:50am](#)

Room 222B: 3D Printed Models and Lagrange Multipliers

Oftentimes, calculus 3 students are just told the equations for Lagrange Multipliers without fully understanding where they come from. But wouldn't it be great to give them a way to visualize and derive the formula themselves? In this talk, I will share a 3D printed model along with a CalcPlot3D activity where students can visualize the goal of finding absolute extrema of a multivariable function with a restriction and they can then use the 3D model and its level curves to derive the Lagrange Multipliers equation on their own. This allows for a much greater understanding of the content and for so much fun in the classroom!

Presenter: Brittini Lorton CCD

Room 233: HIPs in and Beyond the Mathematics Classroom

We will review the eight key elements of a High Impact Practices assignment, and then discuss HIPs classroom successes and challenges as well as work together to discuss and/or improve current assignments. We hope this presentation will increase collaboration of faculty, help faculty increase community involvement, and create/improve engaging math assignments that students can apply to their future classes and careers.

Presenters: Ruth Thompson and Tracy White CMC

[1:00-4:00pm](#)

Quigley Library 2nd Floor : Math Awareness Week at CMC - Escape Room

Volunteer to help or just watch as students follow the clues to try to escape the room.

[1:45-2:35pm](#)

Room 222B: Colorado Online @ Transition Updates/Discussion

This will be an opportunity for updates and discussion around the Colorado Online @ transition

Presenters: Eric Thompson CNCC and Johanna Debrecht RRCC

Room 233: DAT - Data Science in Colorado

This interactive presentation will provide an update on the Data Science program at Red Rocks Community College, the statewide discipline DAT, and programs at four-year transfer institutions. Depending on participants' backgrounds, there will be opportunities for others to share what is happening at their institution or find out more about the course available.

Presenter: Matty Watts RRCC

[2:45-3:35pm](#)

Room 222B: Colorado Math Pathways: Update for CCCS

Colorado has established math pathways at the postsecondary level. But do math pathways exist at the secondary level? With many of our students coming to us straight out of high school and with many of our students being concurrently enrolled, CCCS can help our own students have a smoother transition into their college pathways if we partner with local K12 districts as they explore math pathways at the secondary level.

Presenter: Rachel Sefton CCD

Room 233: STEM-Ready: Targeted Constructivist Math Modules to increase STEM Enrollment and Retention

Many students entering Community colleges have Math Trauma and have written off the possibility of STEM degrees before they have taken any credit bearing STEM courses. Constructivist approaches have shown some success but are typically couched in Gr 6-10 level language and formats. STEM Ready, an NSF sponsored project, has developed curricular modules targeted at foundational ('Keystone') concepts which are written for young adults and these together with an aligned Learning Environment, address the shift in Mindset necessary to provide math phobic students the skills and confidence to re-examine the possibility of pursuing STEM degrees. .Examples of the Keystone modules, the rationales, learning structures and facilitation notes will be shown and explained.

Presenter: Colin Nicholls & Karon Klipple University of NM

Directions to Colorado Mountain College

Driving Directions:

Colorado Mountain College
Spring Valley Campus
3000 County Road 114
Glenwood Springs 81601

Take I-70 to exit 116. Continue on CO-82 to your destination. Take a left onto County Road Road 114. The college will be on the right. Park between the Ascent Center and the Calaway Academic Center.

- Campus Map (Exterior):

https://drive.google.com/file/d/1jYR5kaEaNzfZZOVYSyYaS8q3xz_xLnR4/view?usp=sharing

- Campus Map (Interior):

https://drive.google.com/file/d/1_fBUWEN1aMINDF0-Co_8aeQeNPLUi4/view?usp=sharing

Wi-Fi Information

- Select the network:
- Check the box at the top consent form
- Click "Continue to the Internet" at the bottom of the form

Thank You!

ColoMATYC would like to thank:

- Colorado Mountain College for being great hosts!
- Jason Vargas, Axelle Faughn, and Rose Shepard for coordinating the event.
- All the speakers and presenters.
- Brittni Lorton for updating our website for the past 6 years!

ColoMATYC Executive Board 2023 – 2024

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AMATYC

50 YEARS OF IDEAS

50th AMATYC Annual Conference

Atlanta, Georgia

November 9 – 12, 2023

<https://amatyc.org/page/2023ConfHome>

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