

**Twentieth Annual Pikes Peak Regional Undergraduate Mathematics Conference
University of Colorado, Colorado Springs, Saturday, March 18, 2023**

CONFERENCE PROGRAM

All rooms are located in University Center (UC)

9:30 - 9:50	Registration and Refreshments Room 303A and 303B (adjoined)
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Room 302

9:50–10:00	Welcome and Opening Remarks
10:00–11:00	Keynote Address: <i>The E in REU</i> Dr. Hortensia Soto, Colorado State University

Parallel Sessions	Room 122 Moderator: Molly Moran, Colorado College	Room 124 Moderator: Beth Schaubroeck, USAFA
11:10–11:25	<i>Measuring and Handling the Impact of Missing Data on a Longitudinal Cohort Study using the Pulmonary Hypertension Association Registry</i> Kenneth Huynh, University of Colorado at Denver	<i>Modeling the Coordinated Beating of Chlamydomonas</i> Chase Giglio, Western Colorado University
11:30–11:45	<i>Consecutive Integer Partitions and Their Identities</i> Joseph Skene, Metropolitan State University of Denver	<i>Plotting Airfoils Using the Joukowski and Karman-Trefftz Maps</i> Dans Uriel Ferrer, United States Air Force Academy Muhammad Maulana, United States Air Force Academy

3rd Floor Atrium

11:50–12:50	Lunch – Must register by March 12 to guarantee lunch reservation
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Room 302

1:00 –2:00	<i>What Next? Beyond the Undergraduate Mathematics Major</i> Moderator: Greg Oman (UCCS) Panelists: Julia Worthington (Front Range Community College) Carl Cassidy (UCCS) Joseph Noernberg (UCCS) Bruce Wallin (Industry)
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Parallel Sessions	Room 122 Moderator: Janet Heine Barnett, CSU Pueblo	Room 124 Moderator: Beth Schaubroeck, USAFA
2:10–2:25	<i>Geometry of Transcendental Curves</i> Nicole Venner, Metropolitan State University of Denver	<i>Mathematical Analysis of Quantum Mechanics and General Relativity</i> Brennan Romanoff, United States Air Force Academy
2:30–2:45	<i>On Characterizing Cuboctahedral Fully</i> Emerson Worrell, Colorado College	<i>Survey Economic Impacts of Political Risk Insurance</i> Orin Crouse, University of Colorado at Denver

2:45–3:00 Refreshment Break, UC Tables 3 and 4 (outside the Berger Hall Auditorium, which is also in UC)

3:00–3:15	<i>Playing Billiards on the Sphere and Other Surfaces of Revolution</i> Bjorn Cattell-Ravdal, Metropolitan State University of Denver	
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Room 122

3:20–3:40	Closing and Door Prizes (must be present to win!)
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