



# MAKO Undergraduate Mathematics Research Conference – 2018

Saturday, November 10

## Schedule

**Note: This schedule is extremely tentative. If a talk is shorter than the allotted time, we will start the next talk 5 to 10 minutes later.**

8:30 am – 9:00 am	<b>Coffee and Pastries – Cheek Lobby</b>
9:00 am – 9:05 am	<b>Welcome</b>
9:05 am – 9:55 am	Invited Talk: “Knot Theory 101” Dr. Mark Rogers, Missouri State University
10:00 am – 10:25 am	“Intersections of Shortest Taxicab Paths in the Sierpiński Carpet” Rebekah Chase, Evangel University
10:30 am – 10:55 am	“Divergent Thinking or Problem Posing: Creativity at its Best” Demitrius Moore, University of Central Arkansas
11:00 am – 11:25 am	“Direction Sets and Maximal Directional Hilbert Transforms” Caleb Marshall, Missouri State University
11:30 am – 11:55 am	“Coloring Knots with Groups” Gabriel Wallace, Missouri State University
noon – 12:25 pm	<b>Lunch – Cheek Lobby</b>
12:30 pm – 12:55 pm	“Perimeters of Sections of a 3-Dimensional Box” Wyatt Gregory, University of Missouri, Columbia
1:00 pm – 1:25 pm	“Midpoint Iterations of the Unit Square” Joe Foster, Washington University Adam Somers, Missouri State University
1:30 pm – 1:55 pm	“Group Strategy Implementation in Multi-Agent Systems” Aubrey Hormel, Missouri State University
2:00 pm – 2:25 pm	“The Buffered Fourier Spectral Method” Monica Davanzo, University of Central Arkansas
2:30 pm – 2:55 pm	“Problem Posing Project: A Serious Fibonacci Fiasco” Jonathan Zluticky, University of Central Arkansas
3:00 pm – 3:25 pm	“Gaps in Primes of Various Number Rings” Jake Miles, Missouri State University
3:30 pm – 3:55 pm	“The Numbers Behind Nurikabe” Jaired Collins, Missouri Southern State University Jonas Smith, Missouri Southern State University
3:55 pm – 4:00 pm	Closing and final remarks – Cheek 102