

Schedule

Thursday, March 26

6:30 – 7:30 PM Havener Center – Outside St Pat’s Ballroom
Registration

7:30 – 10:00 PM Havener Center – St Pat’s Ballroom A, B and C
Missouri Collegiate Mathematics Competition (first phase)

7:30 - ??:?? PM Havener Center – Missouri Room
Missouri Section NExT Reception (Open to NExT fellows, both sectional and national, candidates, mentors, consultants and guests)

Friday, March 27

8:30 – 11:00 AM Havener Center – St Pat’s Ballroom A, B and C
Missouri Collegiate Mathematics Competition (second phase)

8:30 – 11:00 AM Havener Center – Carver Room
Missouri Section NExT Workshop (Open to NExT fellows, both sectional and national, candidates, mentors, consultants and guests)

11:15 AM Havener Center – St Pat’s Ballroom A, B and C
Lunch and pictures for the Competition students/advisers

MAA Missouri Section Meeting

12:00 – 4:00 PM Butler-Carlton Atrium
Registration – Book Sale

1:00-1:10 Butler-Carlton Hall - Room 125
Welcome: Dr Jeffrey Cawfield, Vice Provost for Undergraduate Studies – MO S&T

1:15-2:05 Butler-Carlton Hall - Room 125
Plenary speaker: Martin Bohner, MO S&T
Logistic Differential and Difference Equations in Population Dynamics

Contributed Talks

★ Denotes student presenter.

	Room B-C 125	Room B-C 120	Room B-C 121	Room B-C 124
2:15-2:40	Lori McCune <i>Creating a Course Wiki in Linear and Abstract Algebra</i>	Jancee Jarmin★ <i>Beanie Babies and Birthdays: A Look at the Classical Occupancy Problem</i>	Alexander Card <i>The Monotone Catenary Degree of Exceptional Groups</i>	Hussam Abobaker★ <i>Hereditarily irreducible maps between continua</i>
2:45-3:10	Bryan Clair <i>Log(2)</i>	Jacob Schuster★ <i>Linear Lights: Linear Algebra and the Game Lights Out</i>	James Mixco, Brandon Burns★ <i>Factorization Theory in $\mathbb{Z}/n\mathbb{Z}$</i>	Sahika Sahan★ <i>Inverse limits with bonding functions whose graphs are connected</i>

3:15-3:40	Kevin Anderson <i>Never Trust Your Calculator!</i>	Charlie Smith <i>Beautiful Integer Patterns</i>	Xandra Potter★ <i>Explorations in Semiring Theory</i>	David McCune <i>The SIR model in a differential equations course</i>
3:45-4:10	Kevin Hopkins <i>Calculus Animations with Geogebra</i>	Dustin Payne and Katelyn Gutteridge★ <i>From Beer to Books</i>	Jayson Smith★ <i>Power Graphs of Non-associative Algebras</i>	Sean Callen★ <i>Disney and its Measles Outbreak</i>

Butler-Carlton 125	
4:15-5:15	History Trivia Contest http://sections.maa.org/missouri/history.html
5:15-6:00	Break

6:00 PM Havener Center – St Pat’s Ballroom A, B and C

Banquet

Plenary speaker: Steven Dunbar, University of Nebraska - Lincoln

Olympiad Problems for Fun, Learning and Research with Dynamical Software

After Banquet Havener Center – Mark Twain Room

Executive Committee meeting

Saturday, March 28

7:15 - 8:15 AM – Starting at Green Acres Park

5K run/walk (very informal – no official times taken)

7:15-8:15 AM – Rolla Bldg Room G4

Chairs and Liaisons breakfast

8:00 – 10:30 PM Butler-Carlton Atrium

Registration – Book Sale

★ Denotes student presenter.

Saturday				
	Room B-C 125	Room B-C 120	Room B-C 121	Room B-C 124
8:30-8:55	Mary Shepherd <i>Active Algebra 2</i>	Tom Cuchta★ <i>Introduction to time scale calculus</i>	Sean Callen★ <i>Hidden Markov Models: Are We There Yet?</i>	Ben Kingen★ <i>Higher Dimensional Integration Using Monte Carlo Methods and Compute Unified Device Architecture</i>

9:00-9:25	Jeff Poet <i>Sudoku Variations in an Intro to Mathematical Reasoning Course</i>	Ozkan Ozturk★ <i>Classification of Nonoscillatory Solutions of Emden-Fowler Dynamic Equations on Time Scales</i>	Grace Chester★ <i>Fishing for tests: What is Fisher's Exact Test good for and how can it be made better?</i>	Siwei Duo★ <i>Fractional Schrodinger equation and its computation</i>
9:30-9:55	Mary Shepherd <i>Reading Guides in a Flipped Classroom</i>	Matt Insall <i>Local Connectedness Related to Distance Matrices</i>	James Guffey <i>The Ratio Distribution of Two Uniform Random Variables and Benford's Law</i>	Haohao Wang <i>Groebner Basis, Resultant, Syzygy, and Approximation Complex</i>
10:00-10:25	Paul Runnion <i>Increasing Calculus I Success at Missouri S&T: An Early Intervention Approach</i>		Kevin Marshall, Zachary Hoaglund, Bradley Dougherty★ <i>MCM Contest problem-Modeling the distribution of vaccine to eradicate Ebola</i>	
10:25-10:40	Break			

10:40-11:30 Butler-Carlton Hall - Room 125

Plenary speaker: Theron Hitchman, University of Northern Iowa
Bringing Inquiry into the College Mathematics Classroom

11:40 – noon Butler-Carlton Hall - Room 125

Missouri Section Business Meeting