

PROGRAM for the Indiana Section MAA Spring 2019 MEETING
University of Indianapolis
Friday and Saturday, April 5 & 6, 2019

Friday, April 5			
3:00-5:00	Registration Health Pavilion first floor atrium	3:30-3:50	ICMC Registration
		4:00-4:15	ICMC Orientation Health Pavilion 138
5:00-6:15	Executive Board Meeting Health Pavilion 202	4:30-6:30	ICMC (Various rooms)
Contributed Talks			
	Health Pavilion Room 205 Moderator: Rick Gillman	Health Pavilion 206 Moderator: Ken Luther	Health Pavilion 208 Moderator: Stacy Hoehn
4:30-4:50	The value of unique representation for permutations (+) William Weakley		Open Discussion of Innovative Ideas for Linear Algebra Instruction Roza Aceska and Crystal Lorch
5:00-5:20	An Elementary Approach to Galois Theory of Cubics and Quartics (+, #) Rodney Lynch	A Mathematical Modeling Course (+) David Housman	
5:30-5:50	The behavior of a function derived from a test for divisibility by three (+) John Rickert	Incorporating a Modeling First Approach into a Traditional ODE Course (+, #) Michael Karls	Pushing Hurwitz's Bound: History and recent results in finding the bound of the automorphism group of a variety of general type Christopher Creighton (*)
6:00-6:20	Reeb Graphs and Their Applications (+) Sarah Percival (*)	Increasing Participation in an Online College Algebra Class (+, #) John LaMaster	The Specialization Homomorphism for Elliptic Surfaces (+) Tyler Billingsley (*)
6:30-8:00	Banquet and Awards Presentation Schwitzer Student Center, UIndy Hall A		
8:00-9:00	Dr. Deanna Haunsperger Carleton College and 2017-2018 MAA President A Glimpse at the Horizon Schwitzer Student Center, UIndy Hall A		

Saturday, April 6					
7:00-8:30	Registration	Health Pavilion first floor atrium			
8:20-8:30	Welcome – Dr. Debra Feakes , Dean, Shaheen College of Arts and Sciences Health Pavilion 138				
8:30-9:30	Dr. Alissa Crans Loyola Marymount University Cracking the Cubic: Cardano, Controversy, and Creasing Health Pavilion 138				
9:30-10:00	Snacks and Conference Photo	Health Pavilion second floor lobby			
	Contributed talks				Student Activities Workshop
	Health Pavilion 204 Moderator: Ranjan Rohatgi	Health Pavilion 205 Moderator: Ken Luther	Health Pavilion 206 Moderator: Mel Royer	Health Pavilion 208 Moderator: Katie Ansaldi	Health Pavilion 380
10:00-10:20	Boost the Performance of Rocket without Calculus (+, #) Michael Xue	A Fresh Look at Cauchy's Convergence Criterion: Some Variations and Generalizations (+) Dan Coroian	Comparing Intervention Strategies for Reducing Clostridium difficile Transmission: An Agent-Based Modeling Study (+) Brittany Stephenson	On Triangular Numbers (#) Bir Kafle	Recognizing Gerrymandering: Are you smarter than a Supreme Court Justice?
10:30-10:50	Math-Learning through Performance (+, #) Jihyeon Jessie Yang	Differentiating by Parts? (+, #) Phil Mummert	Designing Optimal Strategies for DNA Self-Assembly (+) Amanda Harsy	Estimation of the Population Mean with the Sample Maximum (+, #) Tiffany Kolba	Mindy Capaldi
11:00-11:20	Section NExT panel: Teaching Students to Think about Learning	A general blow-up phenomenon for C^1 function in R^n (+, #) Yifei Pan	Design Strategies for Modeling Mongolian Tent Graphs using DNA Self-Assembly (+) Jackson Hansen (**)	Defining Equations of Rees Algebras (+) Edward F. Price III (*)	
11:30-11:50		Cotangent Averaging and Euler's Product Formula (+) Andy Rich	Using Environmental DNA to Predict Sea Lamprey Population Size in Great Lakes Tributaries (+, #) Emily Morris (**)	Rees Algebras and Normal Ideals (+) Rachel Lynn (*)	

12:00-1:15	Lunch Health Pavilion first floor atrium			
1:30-2:30	Dr. Manda Riehl Rose-Hulman Institute of Technology Discrete Mathematics Applied to Biology Health Pavilion 138			
	Contributed talks			
	Health Pavilion 204 Moderator: Tiffany Kolba	Health Pavilion 205 Moderator: Mindy Capaldi	Health Pavilion 206 Moderator: Josh Holden	Health Pavilion 208 Moderator: Bir Kafle
2:35-2:55	Impact of Time-Restricted Feeding on Digestive Health (+) Carley Maupin (**)	Is Fantasy Football Profitable? (+) Gavin Roswarski (**)	Proof of a Construction of Odd Order Magic Cubes (+) Joshua Arroyo (**)	Generalization Theory of Linear Algebra I: An embedding Algorithm (+) Christina Pospisil (**)
3:00-3:20	Spectral Dynamics for the Second Order Differential Equations with Singular Weight (+, #) Son Nguyen (**)	Any Given Sunday (+) Victoria Pflueger (**)	Best Strategy for Each Team in The Regular Season to Win Champion in The Knockout Tournament (+, #) Zijie Zhou (**)	Investigating the Picnic Problem with The Geometer's Sketchpad (+, #) José Contreras
3:30-4:15	Business Meeting Health Pavilion 138		"So You Think You Know Math?" Game Show for Students organized by Paul Fonstad Health Pavilion 208	
	General Adjournment: See you October 26, 2019 at Wabash College!			

Key for contributed talks (as reported by speakers):

(*) graduate student (**) undergraduate student (+) of interest to undergraduates (#) of interest to K-12 faculty

For any comments, please contact the 2018-2019 Chair of the Section, Lara Pudwell, at: Lara.Pudwell@valpo.edu