

PROGRAM for the Indiana Section MAA FALL 2018 MEETING
Hanover College, Hanover, IN
Saturday, October 13, 2018

8:00-11:15	Registration -- Science Center Lobby		
8:30-8:45	Welcome – Room 137 Valerie Young, Associate Dean for Faculty Development, Hanover College		
8:45-9:35	Dr. Emilie Purvine Pacific Northwest National Laboratory How can mathematicians help advance cyber security? Room 137		
9:35-9:45	Coffee Break – Science Center Lobby		
	<i>Contributed Talks</i>		
	<i>Room 112</i> <i>(moderator: Paul Fonstad)</i>	<i>Room 115</i> <i>(moderator: William Turner)</i>	<i>Room 107</i> <i>(moderator: Amber Russell)</i>
9:45-10:10	When Do You Call the Bullpen? (+) Zach Hollis and Dylan Kunce (**) Trine University	Characterizing Bounds of Proper Diameter in 2-connected Graphs (+) Dylan Green (**) Trevecca Nazarene University	Indiana NExT Panel: Preparing Students for BIG Careers Panelists: Emilie Purvine, Pacific Northwest National Laboratory Joseph Eichholz, Rose-Hulman Institute of Technology Lisa Holden, Northern Kentucky University Dhanuja Kasturiratna, Northern Kentucky University
10:15-10:40	Initial Uncertainty: Lurking in the Shadows (+,#) Casey Garner (**) Rose-Hulman Institute of Technology	The Topology of the Unbased Visual Boundary of the Diestel Leader Graph (+) Max Cartor (**) Bellarmine University	
10:45-11:10	A non-iterative method of solving nonlinear equations (+,#) Michael Xue Vroom Laboratory for Advanced Computing	Graphs on a Train (+) Ranjan Rohatgi Saint Mary's College	

11:20-12:10	Dr. Jacqueline Jensen-Vallin Lamar University and Editor of MAA Focus Let's Get Knotty Room 137		
12:10-1:20	Lunch Science Center Lobby	Executive Board meeting (Science Center 133)	
	Contributed Talks		
	<i>Room 112</i> <i>(moderator: Joshua Holden)</i>	<i>Room 115</i> <i>(moderator: Phil Mummert)</i>	<i>Room 107</i> <i>(moderator: Ranjan Rohatgi)</i>
1:20-1:45	Invariants of two-bridge links (+) Prayat Poudel Centre College	Matrix Representations of Differential Operators (+,#) Seonguk Kim Depauw University	Combinatorics for Geometry: Tropical fan and Newton-Okounkov Body (+) Jihyeon Jessie Yang Marian University - Indianapolis
1:55-2:20	Algebraic Properties of Neural Codes (+) Katie Christensen (*) University of Louisville	A Construction that Gives a Group of Non-invertible Matrices (+) Rodney Lynch IUPUC	Polynomial Peacemakers: Avoiding Scheduling Conflicts (+) Axel Brandt Northern Kentucky University
2:20-2:40	Conference Photo and Coffee Break Science Center Lobby		
2:40-3:30	Dr. Emilie Purvine Pacific Northwest National Laboratory Applications of topology for information fusion Room 137		
3:30	General Adjournment: See you April 5-6, 2019 at University of Indianapolis!		

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