

Program for the Indiana Section MAA Meeting Spring 2024

Marian University, Indianapolis

April 5-6, 2024

****Note: All times listed are in Eastern Time Zone *****

Friday, April 5			
3:00 – 5:00 <i>Atrium of Witchger Engineering Building</i>	Registration	3:30 – 3:50 <i>Atrium of Witchger Engineering Building</i>	ICMC Registration
5:00 – 6:15 <i>Witchger Engineering Building 261</i>	Executive Board Meeting	4:00 – 4:15 <i>Marian Hall 251</i>	ICMC Orientation
		4:30 – 6:30	ICMC
4:30-6:20 Book Sale <i>Witchger Engineering Building 334</i>			
Contributed Talks		<i>Marian Hall 305</i> Moderator: Krysi Leganza, UIndy	
5:00 – 5:20	Rodney Lynch, IUPUC Multiplicative inverses of determinant 0 matrices (§)		
5:30 – 5:50	Young Hwan You, IU East Recovering initial temperature profile of a one-dimensional uniform rod via finite linear time sampling under periodic boundary conditions (§)		
6:00 – 6:20	Rodney Lynch, IUPUC Outer products, generalized identities, and generalized inverses (§, §§)		
6:30 – 7:45	Banquet <i>Alumni Hall</i>	Student Pizza Party <i>Marian Hall 305</i>	
7:30 – 8:00 <i>Alumni Hall</i>	Awards Presentation		
8:00 – 9:00 <i>Alumni Hall</i>	Deborah Kent, University of St. Andrews Mostly in the zone: Mathematics and 19 th -century eclipse expeditions (§, §§)		

Student Talks: (*) Graduate Student; (**) Undergraduate Student

(§) Presentation accessible to Undergraduates

(§§) Presentation of interest to K-12 Faculty

Each contributed talk is to be a 20-minute talk followed by 5 minutes for questions

For any comments, please contact the 2023-2024 Chair of the Section,

Livia Hummel, hummell@uindy.edu

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Saturday, April 6			
7:30 – 8:30	Registration <i>Atrium of Witchger Engineering Building</i>		
8:30 – 3:30	Book Sale <i>Witchger Engineering Building 334</i>		
8:20 – 8:30 <i>Marian Hall 251</i>	Welcome Dr. Kenith Britt , <i>Chief Operating Officer and Chancellor, Marian University</i>		
8:30 – 9:30 <i>Marian Hall 251</i>	Matt Boelkins , <i>Grand Valley State University</i> Interactive, Accessible, Free, and More: how open-source textbooks are changing the teaching and learning of mathematics. (§, §§)		
9:30 – 10:00	Break & Conference Photo <i>Atrium of Witchger Engineering Building</i>		
	<i>Witchger Engineering Building 223</i> Moderator: Tyler Billingsley, <i>Rose-Hulman</i>	<i>Witchger Engineering Building 351</i> Moderator:	<i>Witchger Engineering Building 361</i>
10:00 – 10:20	Section NExT Panel Panelists: Matt Boelkins (<i>Grand Valley State University</i>), Naama Lewis (<i>Marian</i>), Amish Mishra (<i>Taylor</i>), Olga Scrivner (<i>Rose-Hulman</i>) Recent Technological Advances and the Changing Classroom	Haseeb Kazi , <i>Trine Middle School</i> , Shaheer A. Kazi , <i>Angola Middle School</i> , Nabeeha H. Kazi , <i>Angola High School</i> Understanding, Addressing, and Overcoming Math Phobia (§, §§)	Student Activity Workshop Lagrange's Study of Wilson's Theorem Led by Haris Skiadas (<i>Hanover</i>) & Godfred Yamoah (<i>Trine</i>)
10:30 – 10:50		David Housman , <i>Goshen College</i> Probability a group element is pivotal (§)	
11:00 – 11:20	Matt DeLong , Zach Gates , James Highbaugh , Sarah Klanderman , Naama Lewis , <i>Marian</i> Transforming a Calculus Sequence Through a Shared Vision—Active Learning, Mastery Grading, and OERs (§, §§)	Michael Xue , <i>Vroom Laboratory for Advanced Computing, Indianapolis</i> Introducing Feynman's integral method (§)	

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Saturday, April 6 (cont.)		
11:30 – 12:45	Lunch <i>Dining Commons</i>	
12:30 – 1:30	Poster Session <i>Atrium of Witchger Engineering Building</i>	
1:30 – 2:30 <i>Marian Hall 251</i>	Talea L. Mayo, Emory University Weathering the Storm: Using Math to Understand Climate Change Impacts on Hurricane Storm Surge Risk	
Contributed Talks		
	<i>Witchger Engineering Building 223</i> Moderator:	<i>Witchger Engineering Building 351</i> Moderator: Josh Holden, Rose Hulman
2:30 – 2:50	Kai-Chun Lin**, Rose-Hulman Tight frame and discrete structures (§)	Edward Vogel, Rose-Hulman Recap of Mathematics and Art Residency at Rose-Hulman (§, §§)
3:00 – 3:20	Steven Lippold, Taylor University Permutation-like matrices (§)	Michael Karls, Ball State University Cooking a turkey (§, §§)
3:30 – 4:30	Business Meeting <i>Marian Hall 251</i>	ICMC Solutions Workshop <i>Witchger Engineering Building 351</i>
General Adjournment. See you at MathFest in August!		

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