

Kentucky Section of the Mathematical Association of America

Western Kentucky University – April 6-7, 2018

Saturday, April 7 – Contributed Talks/Invited Address/Others (u: undergraduate; g: graduate; f: faculty)

7:45 – 11:00	Registration: Gary Ransdell Hall (GRH) First Floor Lobby				
	GRH 2005	GRH 2006	GRH 2008	GRH 2009	GRH 2010
8:15 – 8:30	Nicholas Rockstroh (Bellarmine – u) <i>The Mathematics of Contra Dance</i>	Andrew Davis (WKU – u) <i>Testing the Accuracy of a Density-Dependent Leslie Matrix Model</i>		Jeffrey Heath (Centre – f) <i>Winning Plays in March Madness</i>	Uta Ziegler (WKU – f) <i>How Computers Learn to Play Go</i>
8:35 – 8:50		Bo Li (Asbury – u) <i>Modeling Population Growth of Linguistic Groups</i>	Natalie Reed (WKU – u) <i>A Computerized Solution to the Fold - And - Cut Problem</i>	Kelsey Etherton (Thomas More – u) <i>Optimization of Pole Vault Properties</i>	Jared Prince (WKU – g) <i>Using Monte Carlo Tree Searches to Play Dots-and-Boxes</i>
9:00 – 9:10	Elections (Gary Ransdell Hall auditorium – GRH 1074)				
9:15 – 10:15	Invited Address (Gary Ransdell Hall auditorium – GRH 1074) Susan Jane Colley (Oberlin College) <i>Counting Curves: Tales from the Enumerative Crypt</i>				
10:30 – 10:45	Robert Powers (Louisville – f) <i>The Young and Levenshick Theorem</i>	Jacob Menix (WKU – u) <i>Using Computational Bayesian Statistics to Analyze Parameters in a Diff. Equation Model</i>	Dominic Lanphier (WKU – f) <i>Summing Powers of Integers and Modifying Faulhaber's Formula</i>	Driehaus, Dufek, Folsom (NKU – u) <i>Examining Renewable Energy Trends for Texas, New Mexico, Arizona and California</i>	
10:50 – 11:05	Trevor Leach (Louisville – g) <i>Characterizing Majority Rule on Rich Ballot Spaces</i>	Ferhan Atici (WKU – f) <i>Discrete Fractional Pharmacokinetics - Pharmacodynamics Model of Tumor Growth in Mice</i>	Mark Robinson (WKU – f) <i>Differentiability of Functions of One and Several Variables</i>	Harrison Williams (Asbury – u) <i>Energy Profile Analysis for Arizona, California, New Mexico, and Texas</i>	Chris Christensen (NKU – f) <i>T. R. Hollcroft's Problem</i>
11:10 – 11:25	Claus Ernst (WKU – f) <i>Braiding of Knots</i>	Jessica Lugo (Murray – g) <i>Numerical Methods for a Combination Chemo-Immunotherapy Model</i>	Roger Zarnowski (NKU – f) <i>Wavelets by Lifting</i>	Margaret Hull (Asbury – u) <i>Going Electric</i>	Samuel Durham (WKU – u) <i>Analyzing the Properties of a Set of $m \times n$ Pixels</i>
11:30 – 11:45	Camuel Hart (WKU/Gatton – u) <i>Performing Flypes Using Planar Diagram Codes</i>	Christina Farwick (Thomas More – u) <i>Investigating Human Cremated Remains Using PCA</i>	Andy Martin (Kentucky State – f) <i>Harald Helfgott and the Goldbach Twins</i>	Tom Richmond (WKU – f) <i>Calculus with Curtains</i>	Doug Chatham (Morehead – f) <i>The $n+k$ Dragon Kings Problem</i>
11:50 – 12:05	Trivan Menezes (WKU/Gatton – u) <i>Detecting Flypes Using Planar Diagram Codes</i>	Abby Stadtmiller (Thomas More – u) <i>Mathematical Study of the Chemical Fingerprints of Bourbon & Other Liquors</i>	Atilla Sit (EKU - f) <i>Three-Dimensional Local Krawtchouk Descriptors for Protein Surface Shape Comparison</i>	Crowe, Gonulates, Harris, Noblitt, Peters, and Thomas <i>Starting the Conversation: KY Association of Math Teacher Educators</i>	Mustafa Atici (WKU – f) <i>Scheduling and Graph Coloring</i>
12:15 – 1:00	Luncheon and Business Meeting (Cupola Room, Downing Student Union)				
1:00 – 2:00	KYMAA Executive Committee Meeting (Cupola Room, Downing Student Union)				