

Kentucky Section of the Mathematical Association of America

Centre College – March 29-30, 2019

Friday, March 29 – Contributed Talks/Invited Address/Others (f: faculty; g: graduate; k: K-12 educator; o: other; u: undergraduate)

2:00 – 4:30	Registration: Young Hall (YH) First Floor Lobby					
3:15 – 4:15	Carl Lee (UK – f) and Ian McCauley (Dunbar High School – o) <i>A Virtual Math Museum</i> (Young Hall 139)					
	Young Hall 110	Young Hall 111	Olin Hall 123	Olin Hall 124	Olin Hall 128	Olin Hall 129
3:05 – 3:20	Karolyn Stewart (Cin. Child. Hosp. – k) <i>Chronic Health Conditions: Implications for Math Education</i>	Jerod Weber and Amelia Floehr (NKU – u) <i>Examining the Impact of Dragons in the Real World</i>	Virginia Hallman, Eleni Buss, and Jahred Hull (Asbury – u) <i>Time to Leave the Louvre</i>	Will Britt and Jeffrey Heath (Centre – u, f) <i>Effective Teamwork: The Analytics of Basketball Lineups</i>	Rob Donnelly (MuSU – f) <i>Which Unit Shapes Have Area Less Than Pi?</i>	Ryan Stoffelbeam (Transylvania – f) <i>Farey Sequences and Diophantine Approximation</i>
3:25 – 3:40	Axel Brandt (NKU – f) <i>Polynomials for Peace: Avoiding Scheduling Conflicts</i>	Rebekah Habeger (Asbury – u) <i>Where to Raise Your Dragon</i>	Enyu Li and Christopher Turner (Asbury – u) <i>Evacuate the Louvre</i>	Chase Cavanaugh and Jeffrey Heath (Centre – u, f) <i>Basketball Shooting Efficiency and the Shot Clock</i>	Justin Taylor (MuSU – f) <i>Eigenvalues of Differential Operators</i>	Justin Garagnani and Michael Kelly (Transylvania – u, f) <i>Optimal Advertising Strategies for Use in Popular Media</i>
3:45 – 4:00	Nicholas Gaubatz (MuSU – u) <i>A Parametrized Solution of Length-four Wavelets</i>	Michael Belcher (WKU – u) <i>Mathematical Modeling of Diabetic Foot Ulcers Using Optimal Design</i>	Doug Chatham (MoSU – f) <i>Applying the Hastings-Metropolis Algorithm to Chessboard Placement Problems</i>	Bob Powers (U of L – f) <i>Strategy-Proof Voting Rules</i>	Jessica Lugo (MuSU – g) <i>Optimal Control of a Tumor Model with Delay</i>	Steven Wilkinson and Lisa Holden (NKU – f) <i>Computing Certification Exams for Students</i>
4:05 – 4:20	David Roach (MuSU – f) <i>Visitors from the 4th-dimension: Visualizing the Length-four Parametrized Wavelets as Points in 4-space</i>	Abdullah Ateyeh (WKU – u) <i>Finding the Most Influential Factors Which Control the Healing of Chronic Wounds</i>	Katelyn May (MuSU – u) <i>Colorings and Sudoku Puzzles</i>	Trevor Leach (U of L – g) <i>Aggregating Preference on Permutation Closed j-rich Domains</i>	Andrew Long and Jacob Englert (NKU – f, u) <i>Climate Change in Togo, West Africa: 3 Degrees C Hotter (or so) by the End of the Century</i>	Michael Lamar (Centre – f) <i>A Statistical Learning Model for Rating-Scale Data</i>
4:30 – 5:30	Invited Address (Young Hall lecture hall – YH 113) Dominic Klyve (Central Washington University) <i>Great Fights! The Seedy Underbelly of Mathematical History</i>					

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	Young Hall 101	Young Hall 102	Young Hall 110	Young Hall 111	Young Hall 112
5:45 – 6:00	Timothy Schroeder (MuSU – f) <i>Mock Reflection Surfaces</i>	Nadine Innes (MuSU – u) <i>Time Series Analysis: Forecasting Treasury Bill Interest Rates</i>	Schugart, Dorff, Donovan, Wiglesworth, Hoard, and Pack <i>Highlighting Undergraduate Research in Mathematics and the Center for Undergraduate Research in Mathematics: A Panel Discussion</i>	Bekkah Trachtenburg (Bellarmine – u) <i>Toxin Effects on a Competitive Species</i>	Duk Lee (Asbury – f) <i>Fly! Fly! My Paper Airplane!</i>
6:05 – 6:20	Rus May (MoSU – f) <i>Risk Analysis</i>	Wesley Stratton (MuSU - u) <i>Predicting Interest Rates Using Integrated Autoregressive Moving Average Time Series Model</i>		Sarah Townsend, Dakota Owens, and Caleb Engler (Asbury – u) <i>Modeling the Spread of Opiates Through KY and 4 Other States</i>	DJ Price (WKU – u) <i>A Complete List of Minimal Diagrams of an Alternating Knot</i>
6:30 – 7:15	Banquet (Old Carnegie, Evans Lively Room)				
7:30 – 8:30	2018 Distinguished Teaching Award Address (Old Carnegie, Evans Lively Room) David Coulliette (Asbury University) <i>What Do (Computational) Mathematicians Do?</i>				