2016 Joint MAA/MichMATYC Meeting, Hillsdale College

Friday, April 1, 2016

1:15-2:15	Registration (Searle Center)		
2:15-3:20	Welcome and Opening Plenary (Dow Center A & B) Marty Golubitsky, Ohio State University/MBI *Patterns of Synchrony: From Animal Gaits to Binocular Rivalry*		
3:30-4:10	Local Invited Lecture (Lane 124) Christine Phelps, Central Michigan U *Improving Mathematics Teaching by Tinkering*	Local Invited Lecture (Lane 125) David Murphy, Hillsdale College *Desingularizations of Some Nilpotent Orbit Closures*	
Room	**Lane 124**	**Lane 125**	**Lane 123**
4:15-4:35	Joon Kang (Andrews U) *A General Elliptic Nonlinear System of Two Functions with Application*	Brian Chadwick (Michigan State U) *Implementing a Summer Bridge Program at Michigan State University to Prepare Students for College Algebra*	TeMACC Workshop
4:40-5:00	Yun Oh (Andrews U) *On the Riemannian Submersion Invariant and Lagrangian Submanifolds*	Clark Wells (Grand Valley State U) *The Case for Proofs that Explain*	
5:10-5:30	Business Meeting (5:10-5:40)		
5:30-6:30	Social Hour (Searle Center)		
6:30-9:00	Banquet and Plenary Lecture (Searle Center) Alissa Crans, Loyola Marymount University *Musical Actions of Dihedral Groups*		

Saturday, April 2, 2016

8:00-8:40	Light Breakfast (Dow Center A & B) and Registration (Searle Center)			
8:45-9:40	Plenary Lecture (Dow Center A & B) Hortensia Soto, University of Northern Colorado *Developing Students' Mathematical Reasoning: Using Notions of Embodied Cognition*			
9:50-10:25	Local Invited Lecture (Lane 124) Cam McLeman, UM Flint *An Entirely Random Approach to Algebraic Number Theory*		Local Invited Lecture (Lane 125) Andrew Ross, Eastern Michigan U *Matching EMU's Quantitative Reasoning Course with the Michigan Transfer Agreement*	
10:30-11:10	Break (Lane Corridor)			TeMACC Workshop (Lane 123)
	Michigan Undergraduate Math Conference	**Contributed Papers**		
Room	**Lane 233**	**Lane 125**	**Lane 124**	
11:10-11:30	***** Mohit Bansil, Aaron Craig and Nicholas Paul (LTU) *Math in Your Bath: An Application of the Heat Equation*	Arundhati Misra (Saginaw Valley State U) and Hyeona Lim (Mississippi State U) *Nonlocal Speckle Denoising Model Based on Nonlocal Means of Similar Neighborhoods*	Paul Pearson (Hope C) *Linear Algebra Ought To Be In Pictures*	
11:35-11:55	***** Ethan Bush (UM Flint) *An Analogue of the Median Voter Theorem in Approval Voting*	Alexander Israetel (Davenport U) *A Trigonometric Model of Continuous Probability Distributions*	Feryal Alayont and David Clark (Grand Valley State U) *Service Learning for Pre-service Teachers in Mathematics Content Courses*	
12:00-12:45	MUMC Pizza Lunch (Dow Gillespie Room)	Conference Luncheon (Searle Center)		

12:55-1:50	Plenary Lecture (Searle Center) Karen Smith, University of Michigan Ann Arbor		
Room	**Lane 233**	**Lane 125**	**Lane 124**
2:00-2:20	***** Daniel Slonim (Hillsdale C) *Interleaving of Path Sets*	ǂ Emily Olson (Michigan State U) *Properties of the Linear Extension Poset*	Victor Piercey and Roxanne Cullen (Ferris State U) *An Unlikely Adventure: Linked Math and English*
2:25-2:45	***** Brooke Szymoniak (SVSU) *On the Existence of Normal Subgroups of Prime Index*	ǂ Matthew Plante (Central Michigan U) *Counting Anosov Graphs*	Morgan Fonley (Alma C) *Invisible H20: Tracking the Water We Cannot See*
2:50-3:10	* Sarah Petersen (Hope C) Level Curves of a Real Algebraic Function: A Generalization of a Theorem of Pólya	ǂ Pin-Hung Kao (Central Michigan U) *On Polynomials at Prime Arguments*	Barbara Britton (Eastern Michigan U) *The Pythagorean Comma: Pause for Music*
3:15-3:35	***** Anthony Pecoraro (GVSU) *Classifying 7 Dimensional Indecomposible Solvable Lie Algebras with Niradical Isomorphic to A5,2⊕R*		Curtis Grosse and Juan Sancen (SVSU) *A Model for Superior Risk-Adjusted Returns Using Statistics and Available Financial Tools*
3:35-4:00	Break (Lane Corridor)		
4:00-5:15	Closing and Student Awards (Dow Center A & B) Plenary Panel *Math Circles and Math Teacher Circles in Michigan*		