

Friday October 5	Keynote	7:00 PM	<b>Old Main</b> Selected Adventures in Policy Modeling E. Kaplan			
	Poster	8:00 PM	Poster Session			
Saturday October 6	Plenary	8:00 AM	<b>MU 220 Turquoise</b> Life After My BEER Intervention C. Eaton			
	Technical Session I		<b>MU 224 Gila</b>	<b>MU 246 Coconino</b>	<b>MU 226 Graham</b>	<b>MU 242 La Paz</b>
			Chair: R. Robeva	Chair: T. Comar	Chair: D. Hrozencik	Chair: A. Mubayi
		9:15 AM	<i>Tackling Biology students' math attitudes and anxiety- A. Fleming-Davies</i>	<i>Analysis of an Agent-Based Model for Integrated Pest Management - T. Comar</i>	<i>Prioritizing the Delivery of Antibiotics After an Anthrax Bioterrorism Event - D. Akman</i>	<i>Immuno-Epidemiological Modeling of Infectious Diseases - M. Martcheva</i>
		9:45 AM	<i>Assessment of modeling skills - R. Mayes</i>	<i>Issues in Reproducible Simulation Research - B. Fitzpatrick</i>	<i>Assesing effects of modeling clinical symptoms and control of Ebola - J. Ponce</i>	<i>Short-term mobility across heterogeneous risk environments - B. Espinosa</i>
		10:15 AM	<i>Functions Applied: Precalculus Concepts Via Scientific Uses - M. Greer</i>	<i>Using Pair Approximation Methods to Analyze Probabilistic Cellular Automaton Model - R. Rovetti</i>	<i>Mathematical Modeling of Acetaminophen-Induced Liver Injury and the Effect of Alcohol - A. Ghosh</i>	<i>Social Factors on the Transmission Dynamics of Infectious Diseases - V. Moreno</i>
		10:45 AM	<i>How can technology be used as a tool in teaching and impact teaching anxieties? - M. Chen</i>	<i>Canalizing Functions on the Phase Space of a Gene Regulatory Network - F. Akman</i>	<i>Intro. the fractional diff. for clinical data-justified prostate cancer model. under IAD therapy - O. Mizrak</i>	<i>Math.model. &amp; simul. w/ deep learning methods of cancer growth for patient-specific therapy - J. Smith</i>
			Chair: A. Veliz-Cuba	Chair: F. Akman	Chair: J. Wares	Chair: L. Caudill
		3:15 PM	<i>Decision Making in a Changing Environment - A. Veliz-Cuba</i>	<i>Dynamics of Social Interactions and Agent Spreading in Ant Colonies - Y. Kang</i>	<i>Dynamics of a Stoichiometric Producer-Grazer System with Seasonal Effects on Light Level - L. Asik</i>	<i>Math. Model., Analysis and Simul. of the spread of gangs in the youth pop. of Puerto Rico - M. Rivera</i>
	3:45 PM	<i>Topological detection of the dimension of the stimuli space - A. Yarosh</i>	<i>Mathematical Models to Evaluate School Nutrition Programs - A. Murillo</i>	<i>Climate and the Dynamics of Plant-Herbivore Interactions - D. Elzinga</i>	<i>Water-Related Infections on Income Disparity in Ecuador - C. Montalvo</i>	
	4:15 PM	<i>Combinatorial Geometry of Threshold-Linear Networks - C. Langdon</i>	<i>Heterogeneities in the Transmission Dynamics of Leishmaniasis - A. Mubayi</i>	<i>Elemental Constraints Across Aquatic Food Webs - N. Hassan</i>	<i>Dynamics of Visceral Leishmaniasis for different distributions - M. Thakur</i>	
	4:45 PM	<i>Student research in mathematical biology - R. Robeva</i>	<i>Waterborne disease in networks impacting public health - P. Seshaiyer</i>	<i>Calcium Signaling in the Sperm Head - J. Simons</i>	<i>Can my reaction to an outbreak change its chain? - A. Azizi</i>	

Sunday October 7

		<b>MU 224 Gila</b>	<b>MU 246 Coconino</b>	<b>MU 226 Graham</b>	<b>MU 242 La Paz</b>
Technical Session III		Chair: D. Murrugarra	Chair: J. Simons	Chair: M. Greer	
	8:15 AM	<i>Using canalization for the control of discrete networks - D. Murrugarra</i>	<i>Modeling Influenza Outbreaks on a College Campus - E. Goldwyn</i>	<i>Simulating Antibiotic Resistance in the Computer Lab - A. Yust</i>	
	8:45 AM	<i>Canalization on the robustness of finite dynamical systems - C. Kadelka</i>	<i>Yellow Fever: Lessons Learned from Modeling an Historic Outbreak - E. Bodine</i>	<i>Models of Disease Spread to Study Efficacy of Bystander Violence Prevention - H. Highlander</i>	
	9:15 AM	<i>Semi-tensor product representations of Boolean networks - M. Macauley</i>	<i>Modeling the Transmission of Wolbachia in Mosquitoes for controlling Mosquito-borne Diseases - Z. Qu</i>		
	9:45 AM	<i>Analyzing Bigger Networks with Polynomial Algebra - I. Dinwoodie</i>	<i>Application of data assimilation in forecasting of influenza in the United States - H. Biegel</i>		
Technical Session IV		Chair: R. Rovetti	Chair: A. Yust	Chair: Y. Kang	
	10:30 AM	<i>Transformations on Double Occurrence Words Motivated by DNA Rearrangement - D. Cruz</i>	<i>How Concussions Alter Brain Network Properties - S. Krehbiel, J. Wares</i>	<i>ANN For Estimation Of Gene Regulatory Network Propensities - D. Hrozencik</i>	
	11:00 AM	<i>Color Space Standardization for High-throughput Phenotyping of Sorghum bicolor - A. Pokorny</i>	<i>A Mathematical Model of the Inflammatory Response to Pathogen Challenge - L. Caudill</i>	<i>PSO for Optimizing ANN in Gene Regulatory Network Propensity Estimation - O. Akman</i>	
	11:30 AM	<i>Thermodynamic constraints to biogeochemical and metabolic diversity - J. Okie</i>	<i>The Effect of Variability on Stochastic Epidemic Models - K. Nipa</i>	<i>Canonical forms and Groebner bases of neural ideals - E. Dimitrova</i>	
	12:00 PM	<i>Novel cell-based model of the shoot apical meristem of Arabidopsis thaliana - M. Kuhn</i>	<i>Pulse vaccination of an SIRS epidemic model with nonlinear incidence rate - M. Yeleussinova</i>	<i>Connections between tumor associated macrophages' polarization and iron metabolism - L. Sordo Vieira</i>	
Plenary	1:00 PM	<b>MU 220 Turquoise</b> Of Mice and Math: four models, four collaborations A. Radunskaya			