PARALLEL SESSIONS

Saturday (11/10/12)	Missouri - Pacific	Wabash - Cannonball	Texas Special	Colorado Special
	Differential and Difference Equations With Applications To Biology	**Epidemic Models**	**Education I**	**Modeling I**
9:15 - 9:45	PETER HINOW: *Pathogen evolution in switching environments: a hybrid dynamical system approach*	ANDREW VLASIC: *Modeling Stochastic Anomalies in an SIS and SIRS System*	LISA ROGERS: *Calculus for the Natural and Physical Sciences*	RANEE THIAGARAJAH: *Combined Tests for Homogeneity of Location-Scale Models under Censoring*
9:45 - 10:15	NICK WINTZ: *The Kalman Filter for Linear Systems on Time Scales*	ANTHONY DELEGGE: *An Epidemic Model with a Multi-Stage Vaccine*	SILVIA HEUBACH: *Improving quantitative skills of life science majors at California State University Los Angeles*	URZSULA LEDZEWICZ: *Controling tumor growth through its microenvironment*
10:15 - 10:45	JULIUS HEIM: *Solow Models on Time Scales*	FOLASHADE AGUSTO: *Malaria Drug Resistance: The impact of Human Movement and Spatial Heterogeneity*	TIMOTHY COMAR: *Student Research Projects with Biological Models Using Impulsive Differential Equations*	ELVAN AKIN: *Almost Oscillatory Three Dimensional Systems of First Order Nonlinear Dynamic Equations*
10:45 - 11:15	ALI AKGUL: *Reproducing kernel Hilbert space method for solving Bratu's problem*	ZOI RAPTI: *Bifurcation analysis of a mathematical model for Daphnia epidemics*	ELI MEIR: *Using SimBio Interactive Chapters for teaching mathematical concepts in math-phobic biology classes*	BRIAN CLARK: *Competition between gene sequences within a population arising from inversions.*
	Modeling II	**Ecology**	**Mathematical Models Of Complex Biological Systems I**	
2:00 - 2:30	JAMAL MOHAMMED-AWEL: *A mathematical model studying mosquito-stage transmission-blocking vaccines*	DIANE BYERS: *Plants in Heterogeneous Environments: determining when phenotypic plasticity is adaptive*	RAINA ROBEVA: *Comparison of Differential Equation and Boolean Network Models of the Lactose Operon with Regard to Bistability*	
2:30 - 3:00	ERIKA ASANO: *Optimal resource allocation strategy for the fire ant (Solenopsis invicta) over multiple seasons*	CARRIE DIAZ EATON: *Ecological Networks: What is the rule and what is the exception?*	TIMOTHY COMAR: *Stable Behavior and Bifurcations in Differential Equations Models for Gene Regulatory Networks*	
3:00 - 3:30	AMY EKANAYAKE: *A Stochastic SIS Metapopulation Model for the Spread of Diseases among Species in a Fragmented Landscape*	DJ GALIFFA: *Nonlocal Modeling Of Insect Borne Diseases*	MATHEW MACAULY: *Analysis and dynamics of bi-threshold functions*	
3:30 - 4:00	ANTONIO MASTROBERARDINO: *Mathematical modeling of the HIV/AIDS epidemic in Cuba*	DOREEN MBABAZI: *Estimating the Effect of Two Training Interventions on Malaria and Mneumonia Using a Mathematical Model*	RURIKO YOSHIDO: *Nonparametric Estimation of Phylogenetic Tree Distributions*	

Sunday (11/11/12)	Missouri - Pacific	Wabash - Cannonball	Texas Special	Colorado Special
	Mathematical Models of Complex Biological Systems II	**Modeling III**	**Statistical Modeling**	**Education II**
9:50 - 10:20	DAN HROZENCIK: *Synchronous Dynamics of Boolean Models for Three- and Four-Gene Regulatory Networks with Multiple Feedback Loops*	MARTIN BOHNER: *The Beverton-Holt Quantum Difference Equation*	FERHAN ATICI: *Parameter Estimations Of Sigmoidal Models Of Cancer - I*	CARRIE DIAZ EATON: *Problem-based approaches in Elementary Statistics*
10:20 - 10:50	PAUL BARTELT & SCOTT SEARCY: *HOP!! Using an agent-based model to test landscape permeability for amphibians*	LISA ROGERS: *Mathematically Modeling the Neuroregulatory Mechanisms of the Human Sleep Wake System*	FANG WU: *Parameter Estimations Of Sigmoidal Models Of Cancer - II*	ERIN BODINE: *A Mathematical Modeling Course with a Focus on Scientific Writing*
10:50 - 11:20	HANNAH CALLENDER: *Gillespie's Algorithm for Simulating a Mathematical Model of Integrins in Cell Motility*	EPAMINONDAS ROSA: *Model Equations for Synchronous Neurons*	FERIDAN TASDAN: *Influences of Ties on Uniform Score Test*	SHELBY SCOTT: *A Model for Multi-Drug Resistant Tuberculosis with Fast and Slow Latent States*
11:20 - 11:50	ISURU DASANAYAKE: *Optimal Control of Neural Oscillators*	HOU CHEN: *Effects of caloric restriction on health maintenance and aging: Insight from metabolic theory*	MAOCHAO XU: *Towards Taming the Dependence in Epidemic Processes over Arbitrary Networks*	

Organized this session

Presented this talk