DYNAMCS DAYS 2012 SCHEDULE

Tuesday, January 3rd

5:30 PM	8:30 PM	Registration	Registration desk open (Posters may be set up)

Wednesday, January 4th

7:30 AM	6:00 PM	Registration		Registration desk open
8:00 AM	10:00 PM	Posters		Poster room open
8:15 AM	8:30 AM	Welcome		
8:30 AM	9:05 AM	Invited	Antonsen (University of Maryland)	Chaos regularization of quantum tunneling rates
9:05 AM	9:20 AM	Contributed	Fenton (Cornell University)	Synchronization and termination of cardiac arrhythmias using low energy far field stimulation
9:20 AM	10:10 AM	Tutorial	Swinney (University of Texas at Austin)	Dynamics of oceanic internal gravity waves
10:10 AM	10:45 AM	Break		
10:45 AM	11:20 AM	Invited	Vulpiani (Sapienza – Università di Roma)	The finite size analysis of chaotic systems
11:20 AM	11:35 AM	Contributed	Dutta (Carl von Ossietzky Universitat)	Biodiversity in the ocean: nonequilibrium coexistence of competing species

11:35 AM	12:10 PM	Invited	Sreenivasan (New York University and NYU-Polytechnic)	Mixing and stirring
12:10 PM	2:00 PM	Lunch		
2:00 PM	2:35 PM	Invited	Showalter (West Virginia University)	Synchronization in populations of chemical oscillators
2:35 PM	2:50 PM	Contributed	Upadhyaya (University of Maryland)	Actin driven membrane waves during lymphocyte activation
2:50 PM	4:30 PM	Posters		Poster session with refreshments
4:30 PM	5:05 PM	Invited	Pikovsky (Potsdam University)	Chaotic destruction of Anderson localization in nonlinear lattices
5:05 PM	5:20 PM	Contributed	Campbell (Boston University)	Quantum coherence and shadows of classical phase space
5:20 PM	5:35 PM	Contributed	Sullivan (Cornell University)	The adaptive causes and consequences of individual restraint for host-parasitoid spatial dynamics
8:00 PM	10:00 PM	Posters		Evening poster session with desserts

Thursday, January 5th

8:00 AM	4:00 PM	Registration		Registration Desk open

8:30 AM	9:20 AM	Tutorial	Levine (University of California, San Diego)	The Spatiotemporal dynamics of gradient sensing
9:20 AM	9:35 AM	Contributed	Rontani (Duke University)	Experimental network of excitable time-delayed boolean systems
9:35 AM	10:10 AM	Invited	Yorke (University of Maryland)	
10:10 AM	10:45 AM	Break		
10:45 AM	11:20 AM	Invited	Bodenschatz (Max Planck Institute for Dynamics and Self Organization)	The statistics of eukaryotic chemotaxis
11:20 AM	11:35 AM	Contributed	Jarzynski (University of Maryland)	Adiabatic invariants, Maxwell's demon and the second law of thermodynamics
11:35 AM	12:10 PM	Invited	Geisel (Max Planck Institute for Dynamics and Self Organization)	The beat generation -- and its perception
12:10 PM	2:00 PM	Lunch		
2:00 PM	2:35 PM	Invited	Grebogi (University of Aberdeen)	Evolutionary game theory and the emergence of spatio-temporal order in ecological systems
2:35 PM	2:50 PM	Contributed	Coulon (National Institutes of Health)	A stochastic computational framework for the multi-timescale dynamics of transcriptional regulation

2:50 PM	3:05 PM	Contributed	Meacci (Columbia University)	Actomyosin organization and rigidity sensing in spreading cells
3:05 PM	3:40 PM	Break		
3:40 PM	4:15 PM	Invited	Eckhart (Philipps-Universitaet Marburg)	Turbulence transition in pipe flow: an example of high-dimensional chaos
4:15 PM	4:30 PM	Contributed	Leite (Universidade Federal de Pernambuco)	Chaotic dynamics and deterministic optical rogue waves
6:00 PM	**10:00 PM**	**Banquet**		**Baltimore Science Center**

Friday, January 6th

8:00 AM	4:00 PM	Registration		Registration Desk open
8:00 AM	10:00 PM	Posters		Poster room open
8:30 AM	9:20 AM	Tutorial	Berry (University of Bristol)	Spinning tops and slow manifolds
9:20 AM	9:35 AM	Contributed	Fisher (University of Maryland)	Vortex dipole dynamics in the Gross-Pitaevskii equation
9:35 AM	10:10 AM	Invited	Bohr (Technical University of Denmark)	Plants as dynamical systems: Universality and optimality of osmotically driven sap-flow
10:10 AM	10:45 AM	Break		

10:45 AM	11:20 AM	Invited	Booth (University of Michigan)	Dynamics of sleep-wake regulation
11:20 AM	11:35 AM	Contributed	Mitchener (College of Charleston)	Discrete biochemistry and the evolution of computation
11:35 AM	12:10 PM	Invited	Casati (Università dell'Insubria)	Dynamical models for thermopower
12:10 PM	2:00 PM	Lunch		
2:00 PM	2:35 PM	Invited	Ermentout (University of Pittsburgh)	The effects of noise on oscillators
2:35 PM	2:50 PM	Contributed	Yang (University of Connecticut Health Center)	Physics of the periplasm: The rotational dynamics of spirochetal flagella
2:50 PM	4:30 PM	Posters		Poster session with refreshments
4:30 PM	5:05 PM	Invited	Restrepo (University of Colorado at Boulder)	Pinning and memory of period-2 dynamics in cardiac tissue
5:05 PM	5:20 PM	Contributed	Belmonte (Penn State)	Pattern formation and transport in prisoner's dilemma models
5:20 PM	5:35 PM	Contributed	Morena (University of New Hampshire)	Cupolets and a chaotic analog of entanglement
8:00 PM	10:00 PM	Posters		Evening poster session with desserts

Saturday, January 7th

8:00 AM	2:00 PM	Posters		Poster room open
8:00 AM	12:00 PM	Registration		Registration Desk Open
8:30 AM	9:05 AM	Invited	Hasty (University of California at San Diego)	Engineered gene circuits: from oscillators to synchronized clocks and biopixels
9:05 AM	9:20 AM	Contributed	Bandi (Okinawa Institute of Science & Technology	Shock-driven jamming and periodic fracture of particulate rafts
9:20 AM	9:55 AM	Invited	Procaccia (Weizmann Institute of Science)	Direct estimate of the static length-scale accompanying the glass transition
9:55 AM	10:30 AM	Break		
10:30 AM	11:05 AM	Invited	Rericha (Vanderbilt University)	
11:05 AM	11:20 AM	Contributed	Mecholsky (Catholic University of America)	Continuum modeling of the equilibrium and stability of animal flocks
11:20 AM	11:55 PM	Invited	Tel (Eotvos University)	Memory effects in chaotic advection

1:30 PM	5:00 PM		Tours of University of Maryland	(For those staying later, a tour of the University of Maryland nonlinear dynamics laboratories will be offered, including transportation from and to the hotel.)