

## Dynamics Days US 2013 Schedule

General Session: Colorado Ballroom A-E. Poster Sessions: Colorado Ballroom F.

I = Invited, C = Contributed, T = Tutorial

Wednesday, January 2				
5:00 PM	8:00 PM	Registration		
Thursday, January 3				
7:30 AM	5:00 PM	Registration		
8:30 AM	8:45 AM	Opening Remarks		
8:45 AM	9:20 AM	I	<b>Daniel I. Goldman</b> , Georgia Tech	Ant Dynamics: Digging, Falling, and Jamming in Subterranean Tunnels
9:20 AM	9:40 AM	C	<b>Jeffrey Weiss</b> , University of Colorado	Nonequilibrium Fluctuations and Climate Variability
9:40 AM	10:15 AM	I	<b>Raissa D'Souza</b> , UC Davis	Percolation, Cascades, and Optimal Interdependence of Networks
10:15 AM	10:55 AM	Break		
10:55 AM	11:15 AM	C	<b>Per Sebastian Skardal</b> , University of Colorado	Hierarchical Paths to Synchronization in Networks with Community Structure
11:15 AM	11:50 AM	I	<b>Thomas Peacock</b> , MIT	Uncovering Oceanic Transport Barriers
11:50 AM	12:10 PM	C	<b>Korana Burke</b> , UC Davis	Chaos Induced Energy Hopping in Periodically Kicked Rydberg Atoms
12:10 PM	2:00 PM	Lunch		
2:00 PM	2:20 PM	C	<b>Anthony Chen</b> , U. of Toronto	Experiments on the Growth and Form of Icicles
2:20 PM	3:10 PM	T	<b>Bob Behringer</b> , Duke Univ.	Jamming and Dynamics of Granular Materials
3:10 PM	3:30 PM	C	<b>Marc Kjerland</b> , Uiversity of Illinois at Chicago	Linear Response Closure Approximation for Multiscale Systems
3:30 PM	4:10 PM	Break		
4:10 PM	4:45 PM	I	<b>Peter Ashwin</b> , University of Exeter	Exotic Dynamical Behaviour in Coupled Dynamical Systems
4:45 PM	5:05 PM	C	<b>Nathan Tompkins</b> , Brandeis University	Establishing the Turing Mechanism Using Synthetic Cells
5:05 PM	5:40 PM	I	<b>Jay Fineberg</b> , The Hebrew University of Jerusalem	How Things Slide: Rapid Dynamics at the Onset of Friction
Friday, January 4				
8:00 AM	5:00 PM	Registration		
8:30 AM	9:05 AM	I	<b>Aaron Clauset</b> , University of Colorado	The Structural Determinants of Competitive Advantage in Team Competitions
9:05 AM	9:25 AM	C	<b>Cedric Beaume</b> , UC Berkeley	Localization Phenomena in Three-dimensional Doubly Diffusive Convection
9:25 AM	10:00 AM	I	<b>Itai Cohen</b> , Cornell University	Flight of the Fruit Fly
10:00 AM	10:40 AM	Break		
10:40 AM	11:15 AM	I	<b>David Christini</b> , Weill Cornell Medical College	The Dynamical Underpinnings of Subcellular Calcium Alternans in Cardiac Myocytes
11:15 AM	11:35 AM	C	<b>Simbarashe Nkomo</b> , West Virginia University	Chimera States in Coupled Chemical Oscillators
11:35 AM	12:10 PM	I	<b>Mark Miesch</b> , NCAR	Dynamic Origins of Solar Magnetism
12:10 PM	2:00 PM	Lunch		
2:00 PM	2:20 PM	C	<b>Kerstin Nordstrom</b> , University of Maryland	Granular Dynamics During Impact
2:20 PM	3:10 PM	T	<b>Dietmar Plenz</b> , National Institutes of Health	Critical Dynamics and Integrative Networks of the Normal Brain
3:10 PM	3:30 PM	C	<b>Shigefumi Hata</b> , Fritz-Haber Inst. of the Max-Planck Society	Dispersal-induced Oscillatory Turing Instabilities in Ecological Networks

3:30 PM	4:10 PM	<b>Break</b>		
4:10 PM	4:30 PM	C	<b>Jan Nagler</b> , Max-Planck Inst. for Dyn. and Self-Organization	Devil's Staircases, Crackling Noise and Phase Transitions in Percolation
4:30 PM	5:05 PM	I	<b>Hans Herrmann</b> , ETH Zürich	Packing of Wires in Cavities and Growing Surfaces
7:30 PM	9:30 PM	<b>Poster Session A</b>		
<b>Saturday, January 5</b>				
8:00 AM	5:00 PM	Registration		
8:30 AM	9:05 AM	I	<b>Michelle Girvan</b> , University of Maryland	A Network Approach to the Orientation Problem in Genome Assembly
9:05 AM	9:25 AM	C	<b>Ryan James</b> , UC Davis	Forgetting and Remembering in Chaotic Dynamical Systems
9:25 AM	10:00 AM	I	<b>Keith Julien</b> , University of Colorado	Asymptotic Approaches for Rotationally Constrained Flows
10:00 AM	10:40 AM	<b>Break</b>		
10:40 AM	11:00 AM	C	<b>Elena Tolkacheva</b> , University of Minnesota	Spatio-temporal Evolution and Prediction of Electromechanical Alternans in Isolated Rabbit Hearts
11:00 AM	11:35 AM	I	<b>Mark Newman</b> , U. of Michigan	Graph Spectra and Complex Networks
11:35 AM	12:10 PM	I	<b>Daniel Lathrop</b> , University of Maryland	Quantum Fluid Flows: the Strange Things we See in Superfluid Helium
12:10 AM	2:00 PM	<b>Lunch</b>		
2:00 PM	2:20 PM	C	<b>Daniel Gauthier</b> , Duke University	Predictability and Control of Extreme Events in Complex Systems
2:20 PM	3:10 PM	T	<b>Glen R. Stewart</b> , University of Colorado	Observation and Theory of Modulational Instability and Nonlinear Mode Coupling in Saturn's Rings
3:10 PM	3:30 PM	C	<b>Woodrow Shew</b> , University of Arkansas	Inhibition and Information Processing in the Cerebral Cortex
3:30 PM	4:10 PM	<b>Break</b>		
4:10 PM	4:30 PM	C	<b>Cynthia Reichhardt</b> , Los Alamos National Laboratory	Bidirectional Sorting of Flocking Models in the Presence of Asymmetric Barriers
4:30 PM	4:50 PM	C	<b>Li Wang</b> , UC Los Angeles	Shock Solutions for High Concentration Particle-laden Thin Films
4:50 PM	5:25 PM	I	<b>Leon Glass</b> , McGill University	Challenges for Computational Vision: From Random Dots to the Wagon Wheel Illusion
7:30 PM	9:30 PM	<b>Poster Session B</b>		
<b>Sunday, January 6</b>				
8:00 AM	5:00 PM	Registration		
8:30 AM	8:50 AM	C	<b>David Rosin</b> , Duke University and Technische U. Berlin	Control of Synchronization Patterns in Neural-like Boolean Networks
8:50 AM	9:25 AM	I	<b>Eleni Katifori</b> , Max-Planck Inst. for Dyn. and Self-Organization	Deciphering the Topology of Planar Networks
9:25 AM	9:45 AM	C	<b>Lei Dai</b> , MIT	Critical Slowing Down Provides Advance Warning of Population Collapse
9:45 AM	10:05 AM	C	<b>Kevin Mitchell</b> , UC Merced	Pinning of Advectionreaction-diffusion Fronts: the Role of Burning Invariant Manifolds
10:05 AM	10:45 AM	<b>Break</b>		
10:45 AM	11:05 AM	C	<b>Kameron Harris</b> , University of Washington	Limited Imitation Social Contagion as a Model of Fashions
11:05 AM	11:40 AM	I	<b>Wendy W. Zhang</b> , U. of Chicago	Dynamic Icescapes
11:40 AM	12:15 PM	I	<b>Michael Schatz</b> , Georgia Tech	Exact Coherent Structures in Turbulence
12:15 PM	12:25 PM	Ending Remarks		