

# 2009 The Dynamics of Complex Systems: Viewing the World from a New Perspective

University of Alaska Fairbanks

Fairbanks, Alaska - August 4 – 7, 2009

*All events will be held in the Paul Reichardt Building Rm. 201 unless otherwise noted.*

## *Tuesday 4 August 2009*

Time	Activity/Speaker
6:30 - 7 pm	<b>Registration</b>
7:00-7:10 pm	<b>Welcome</b> - David Newman and Paul Layer, Dean, College of Natural Sciences and Mathematics
7:10-8:10 pm	<b>Plenary:</b> J. Kurths - <i>Synchronization and complex networks: Are such theoretical approaches useful for Life Sciences and Earth Sciences?</i>

## *Wednesday 5 August 2009*

Time	Activity/Speaker
8:15-8:50 am	<b>Registration</b>
8:50-9:00 am	<b>Welcome and General Comments</b> - D. Newman
9:00-10:00 am	<b>Plenary:</b> Barbara Drossel - <i>Evolution of Boolean networks</i>
10:00-10:15 am	<b>Questions</b>
10:15-10:45 am	<b>Break &amp; refreshments</b> ( <i>Paul Reichardt Bldg. Rm. 203</i> )
10:45-11:15 am	<b>Presentation:</b> Doug Causey - <i>Anti-nestedness, matrix temperature, and dynamics of a spatial network of forest birds</i>
11:15-11:25 am	<b>Questions and switchover</b>
11:25-11:55 pm	<b>Presentation:</b> Uma Bhatt (for Skip Walker) - <i>Greening of the Arctic: Caused by climate, land-use, and/or geology?</i>
11:55-12:05 pm	<b>Questions</b>
12:05-1:30 pm	<b>Lunch and networking</b> (on your own)
1:30 - 2:00 pm	<b>Presentation:</b> Renate Wackerbauer - <i>Collapse in complex systems</i>
2:00 - 2:10 pm	<b>Questions and switchover</b>
2:10 - 2:40 pm	<b>Presentation:</b> TBA
2:40 - 2:50 pm	<b>Questions and switchover</b>
2:50 - 3:20 pm	<b>Presentation:</b> Steve McNutt - <i>Using seismic b-values to interpret seismicity rates and processes prior to and during the 2006 eruptions at Augustine volcano, Alaska</i>
3:30-6:00 pm	<b>Poster Session and Reception</b> ( <i>Paul Reichardt Bldg. 2nd Floor Hallway &amp; Rm. 203</i> )

**Thursday 6 August 2009**

Time	Activity/Speaker
8:30-9:00 am	<b>Registration</b>
9:00-10:00 am	<b>Plenary:</b> Raul Sanchez - <i>Probing turbulent transport with tracers</i>
10:00-10:15 am	<b>Questions</b>
10:15-10:45 am	<b>Break &amp; refreshments</b> ( <i>Paul Reichardt Bldg. Rm. 203</i> )
10:45-11:15 am	<b>Presentation:</b> Nicole Mölders - <i>Investigation of means for Pm2.5 mitigation through atmospheric modeling</i>
11:15-11:25 am	<b>Questions and switchover</b>
11:25-11:55 pm	<b>Presentation:</b> Chung Sang Ng - <i>Parker's Model of Solar Coronal Heating: Lundquist Number Scaling due to Random Photospheric Footpoint Motion in Three Dimensional Simulations</i>
11:55-12:05 pm	<b>Questions</b>
12:05-1:30 pm	<b>Lunch and networking</b> (on your own)
1:30 - 2:00 pm	<b>Presentation:</b> Uma Bhatt - <i>Characterization of dynamics in models and observed climate</i>
2:00 - 2:10 pm	<b>Questions and switchover</b>
2:10 - 2:40 pm	<b>Presentation:</b> Bill Hibler - <i>Pre-Industrial Multiple Equilibrium Sea-Ice States due to Ice Mechanics</i>
2:40 - 2:50 pm	<b>Questions and switchover</b>
2:50 - 3:10 pm	<b>Presentation:</b> TBD
3:10 - 3:15 pm	<b>Questions and switchover</b>
3:15 - 3:35 pm	<b>Presentation:</b> Peter Bieniek - <i>Interior Alaska Rivers and their Connection to Climate</i>
3:35 - 3:40 pm	<b>Questions and switchover</b>
3:40 - 4:00 pm	<b>Presentation:</b> Brentha Thurairajah - <i>Non-Linear Wave Dynamics of the Arctic Middle Atmosphere: Rayleigh lidar Measurements and Analysis</i>
4:00 -5:00 pm	<b>Poster Session &amp; refreshments</b> ( <i>Paul Reichardt Bldg. 2nd Floor Hallway &amp; Rm. 203</i> )
6:00 pm	<b>Conference dinner</b> ( <i>Alaska Salmon Bake at Pioneer Park</i> )