

# 2010 The Dynamics of Complex Systems: Viewing the World from a New Perspective

University of Alaska Fairbanks – March 8-11, 2010

*All events will be held in Reichardt Building Rm. 201 unless otherwise noted. Agenda subject to change.*

## *Monday 8 March 2010*

Time	Activity/Speaker
8:15-8:50 am	<b>Registration &amp; refreshments</b> ( <i>Paul Reichardt Bldg. 2nd Floor Hallway &amp; Rm. 203</i> )
9:00-9:10 am	<b>Welcome and General Comments</b> – David Newman
9:10-10:10 am	<b>Plenary:</b> Barbara Drossel - <i>The nonlinear dynamics behind cyclic dominance of pacific salmon</i>
10:10-10:20 am	<b>Questions</b>
10:20-10:40 am	<b>Break</b>
10:40-11:10 am	<b>Presentation:</b> Daqing Yang - <i>Challenges in Understanding Dynamics of Cryosphere System: Examples of CliC Project</i>
11:10-11:15 am	<b>Switchover</b>
11:15-11:45 am	<b>Presentation:</b> Xiangdong Zhang - <i>Sensitivity of Arctic Summer Sea Ice Coverage to Global Warming Forcing: Toward Reducing Uncertainty in Arctic Climate Change Projections</i>
11:45-11:50 am	<b>Switchover</b>
11:50-12:20 pm	<b>Presentation:</b> Igor Polyakov - <i>Fine scale persistent ocean structures observed with NABOS moorings in the Eurasian basin (working title)</i>
12:20-2:00 pm	<b>Lunch and networking</b> (on your own)
2:00 – 3:30 pm	<b>Discussion</b>
3:30-6:00 pm	<b>Poster Session and Reception</b> ( <i>Paul Reichardt Bldg. 2nd Floor Hallway &amp; Rm. 203</i> )
6:00 pm	<b>Optional Activity:</b> BP World Ice Art Championships Ice Park

## *Tuesday 9 March 2010*

Time	Activity/Speaker
8:30-9:00 am	<b>Registration &amp; refreshments</b> ( <i>Paul Reichardt Bldg. 2nd Floor Hallway &amp; Rm. 203</i> )
9:00-10:00 am	<b>Plenary:</b> Eddy Carmack – <i>Arctic Change and Complex Consequences: Some Ocean Puzzles</i>
10:00-10:15 am	<b>Questions</b>
10:15-10:40 am	<b>Break</b>
10:40-11:10 am	<b>Presentation:</b> Roman Bekryaev - <i>Role of polar amplification in long-term surface air temperature variations</i>
11:10-11:15 am	<b>Switchover</b>
11:15-11:45 am	<b>Presentation:</b> Jennifer Hutchings - <i>Spatial and temporal characterization of sea ice deformation</i>
11:45-11:50 am	<b>Switchover</b>
11:50-12:20 pm	<b>Presentation:</b> Jing Zhang - <i>Chukchi/Beaufort Seas Meteorology Study from Mesoscale and Climate Aspects</i>
12:20-2:00pm	<b>Lunch and networking</b> (on your own)
2:00 – 3:30 pm	<b>Discussion</b>
3:30-5:00 pm	<b>Poster Session &amp; refreshments</b> ( <i>Paul Reichardt Bldg. 2nd Floor Hallway &amp; Rm. 203</i> )

**Wednesday 10 March 2010**

<b>Time</b>	<b>Activity/Speaker</b>
8:30-9:00 am	<b>Registration &amp; refreshments</b> ( <i>Paul Reichardt Bldg. 2nd Floor Hallway &amp; Rm. 203</i> )
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>
10:15-10:40 am	<b>Break</b>
10:40-11:10 am	<b>Presentation:</b> Uma Bhatt - <i>Climate index characterization in models and observations using Hurst Exponent and Renyi Entropy Techniques</i>
11:10-11:15 am	<b>Switchover</b>
11:15-11:45 am	<b>Presentation:</b> Vladimir Alexeev – <i>Atmospheric polar amplification feedbacks: effects of seasonality and continentality</i>
11:45-11:50 am	<b>Switchover</b>
11:50-12:20 pm	<b>Presentation:</b> David Newman - <i>The impact of people on the dynamics of engineered complex systems</i>
12:20-2:00 pm	<b>Lunch and networking</b> (on your own)
2:00 - 3:30 pm	<b>Discussion</b>
3:30-5:00 pm	<b>Poster Session</b> ( <i>Paul Reichardt Bldg. 2nd Floor Hallway &amp; Rm. 203</i> )
6:00pm	<b>Conference Dinner - Silver Gulch Restaurant, Advanced Reservations required</b>

**Thursday 11 March 2010**

<b>Time</b>	<b>Activity/Speaker</b>
12:30pm	<i>Permafrost Tunnel Tour participants meet at Paul Reichardt Bldg. to pick up box lunch and transport to Permafrost Tunnel</i>
1:30 - 3:00 pm	<b>Optional Activity – U.S. Army Cold Regions Research and Engineering Lab (CRREL) Permafrost Tunnel</b> <i>Limited to 12 participants- advanced reservations required. Return to UAF by 3:30pm.</i>
3:30pm	<i>Chena Hot Springs tour participants meet at Paul Reichardt Bldg. for transport to Chena Hot Springs Resort</i>
5:00 – 10:00pm	<p><b>Optional Activity – Chena Hot Springs Resort</b></p> <ul style="list-style-type: none"> <li>• <i>Tour Geothermal Renewable Energy Power Plant, Chena Greenhouses and ice museum absorption chiller</i></li> <li>• <i>Soak in the natural hot springs</i></li> <li>• <i>Option: Tour Ice Museum (\$15)</i></li> <li>• <i>Option: Dinner (on your own)</i></li> </ul> <p><i>Depart by 10pm, arriving on UAF campus approx. 11:30pm.</i></p>