

**The 2012 Berkeley Mini Statistical Mechanics Meeting**  
**January 13 – 15, 2012**

**Friday, January 13, 2012**

<b>5:00 pm</b>	<b>Registration &amp; Check-In</b>	<b>Bixby Commons</b>
<b>7:30 pm</b>	<b>Poster Session I - Two-minute Talks</b> <b>David Chandler Presiding</b>	<b>Pitzer Auditorium</b>
<b>8:30 pm</b>	<b>Poster Session I - Presentation &amp; Reception</b>	<b>Tan Hall Lobby</b>

**Saturday, January 14, 2012**

<b>7:45 am</b>	<b>Breakfast</b>	<b>Tan Hall Lobby</b>
<b>8:45 am</b>	<b>Introductory Remarks</b> <b>David Chandler</b>	<b>Pitzer Auditorium</b>

**Saturday Lecture Session I – Session chair: Hans Andersen** **Pitzer Auditorium**

<b>9:00 am</b>	<b>Sarah Keller, University of Washington</b> “ <i>Observations of lipid membranes in (roughly) 2D influenced by bulk water in 3D</i> ”	
<b>9:30 am</b>	<b>Anthony D. Dinsmore, University of Massachusetts, Amherst</b> “ <i>Probing Phase Transitions with Colloids: Non-classical nucleation and sublimation</i> ”	
<b>10:00 am</b>	<b>Frank Brown, University of California, Santa Barbara</b> “ <i>Composition dynamics on the surface of lipid bilayer membranes</i> ”	
<b>10:30 am</b>	<b>Coffee Break</b>	<b>Tan Hall Lobby</b>

**Saturday Lecture Session II – Session chair: George Oster** **Pitzer Auditorium**

<b>10:45 am</b>	<b>Jennifer Curtis, Georgia Institute of Technology</b> “ <i>The Cell’s Invisible ‘Organelle’: Mechanical and structural properties of the pericellular matrix</i> ”	
<b>11:15 am</b>	<b>Oskar Hallatschek, Max Planck Institute for Dynamics and Self-Organization</b> “ <i>The evolutionary advantage of being round</i> ”	
<b>11:45 am</b>	<b>Rosalind Allen, University of Edinburgh</b> “ <i>The roles of history and chance in microbial ecosystem development</i> ”	
<b>12:15 pm</b>	<b>Lunch</b>	<b>775 Tan Hall</b>

**Saturday Lecture Session III – Session chair: Gerhard Hummer****Pitzer Auditorium**

<b>2:00 pm</b>	<b>William A. Eaton, National Institutes of Health</b> <i>"An Ising-like model for protein folding"</i>	
<b>2:30 pm</b>	<b>John Chodera, University of California, Berkeley</b> <i>"Unraveling the statistical mechanics of biomolecules with force spectroscopy"</i>	
<b>3:00 pm</b>	<b>Thomas Miller, California Institute of Technology</b> <i>"Sec-facilitated Protein Translocation and Membrane Integration"</i>	
<b>3:30 pm</b>	<b>Coffee Break</b>	<b>Tan Hall Lobby</b>

**Saturday Lecture Session IV – Session chair: David Chandler****Pitzer Auditorium**

<b>3:45 pm</b>	<b>Katrin Winkel, University of Innsbruck</b> <i>"Amorphous ices – the glassy states of water?"</i>	
<b>4:15 pm</b>	<b>Paul Steinhardt, Princeton University</b> <i>"The search for natural quasi-crystals"</i>	
<b>5:15 pm</b>	<b>Break</b>	
<b>6:00 pm</b>	<b>Poster Session II – Two minute talks</b>	<b>Pitzer Auditorium</b>
<b>7:00 pm</b>	<b>Poster Session II– Presentation &amp; Reception</b>	<b>Tan Hall Lobby</b>

**Sunday, January 15, 2012**

<b>8:00 am</b>	<b>Breakfast</b>	<b>Tan Hall Lobby</b>
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**Sunday Lecture Session I – Session chair: Michael Hagan****Pitzer Auditorium**

<b>9:00 am</b>	<b>Benjamin Rotenberg, CNRS and Université Pierre et Marie Curie</b> <i>"Charging mechanism in nanoporous carbon electrodes: The molecular origin of supercapacitance"</i>	
<b>9:30 am</b>	<b>Alessandro Laio, SISSA – The International School for Advanced Studies</b> <i>"Absolute transition rates for rare events from adiabatic decoupling of reactive dynamics"</i>	
<b>10:00 am</b>	<b>Aaron Dinner, University of Chicago</b> <i>"Currents of dynamic events"</i>	
<b>10:30 am</b>	<b>Coffee Break</b>	<b>Tan Hall Lobby</b>

<b>10:45 am</b>	<b>Michael Brenner, Harvard University</b> <i>"Irreversible interactions and self assembly"</i>
<b>11:15 am</b>	<b>Angelo Cacciuto, Columbia University</b> <i>"Free energy of multiple overlapping chains and self-assembly of ultra-soft nanoparticles"</i>
<b>11:45 am</b>	<b>Tuomas Knowles, Cambridge University</b> <i>"Biophysics of protein aggregation"</i>
<b>12:15 pm</b>	<b>Closing Remarks: David Chandler</b>
<b>12:30 pm</b>	<b>Dim Sum Party</b>

**775 Tan Hall**