

**The 2013 Berkeley Mini Statistical Mechanics Meeting**  
**January 11 – 13, 2013**

**Friday, January 11, 2013**

<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>120 Latimer Hall</b>
<b>8:30 pm</b>	<b>Poster Session I - Discussions &amp; Light Reception</b>	<b>Tan Hall Lobby</b>

**Saturday, January 12, 2013**

<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>120 Latimer Hall</b>

**Saturday Lecture Session I – Discussion chair: Phillip Geissler** **120 Latimer Hall**

<b>9:00 am</b>	<b>Francesco Zamponi, Ecole Normale Supérieure</b> <i>“Transition path sampling algorithm for discrete many-body systems”</i>	
<b>9:30 am</b>	<b>Aaron Keys, Lawrence Berkeley National Laboratory</b> <i>“Structural Signatures of a Non-Equilibrium Phase Transition in Glassy Materials: Striped Phases and the s-Ensemble”</i>	
<b>10:00 am</b>	<b>Vijay Pande, Stanford University</b> <i>“Simulating long timescale dynamics using Markov State Model approaches”</i>	
<b>10:30 am</b>	<b>Coffee Break</b>	<b>Tan Hall Lobby</b>

**Saturday Lecture Session II – Discussion chair: Gavin Crooks** **120 Latimer Hall**

<b>10:45 am</b>	<b>Eric Lutz, Freie Universität Berlin</b> <i>“The physics of information: from Maxwell’s demon to Landauer”</i>	
<b>11:15 am</b>	<b>Masahito Ueda, The University of Tokyo</b> <i>“Information thermodynamics and fluctuation theorem”</i>	
<b>11:45 am</b>	<b>Thomas Speck, Universität Düsseldorf</b> <i>“Non-equilibrium phase transitions in suspensions of self-propelled particles”</i>	
<b>12:15 pm</b>	<b>Lunch</b>	<b>775 Tan Hall</b>

<b>Saturday Lecture Session III – Discussion chair: Teresa Head-Gordon</b>	<b>120 Latimer Hall</b>
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| <b>2:00 pm</b> | <b>Michael Deem, Rice University</b><br><i>“Emergence of Modularity in Biological Systems”</i>       |                       |
| <b>2:30 pm</b> | <b>Federico Toschi, Technische Universiteit Eindhoven</b><br><i>“Population dynamics under flow”</i> |                       |
| <b>3:00 pm</b> | <b>Alexander Grosberg, New York University</b><br><i>“From polymer rings to genome folding”</i>      |                       |
| <b>3:30 pm</b> | <b>Coffee Break</b>  | <b>Tan Hall Lobby</b> |

<b>Saturday Lecture Session IV – Discussion chair: Tuomas Knowles</b>	<b>120 Latimer Hall</b>
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| <b>3:45 pm</b> | <b>Baron Peters, University of California, Santa Barbara</b><br><i>“Solute precipitate nucleation: insight from theory and simulation”</i> |                         |
| <b>4:15 pm</b> | <b>Joan-Emma Shea, University of California, Santa Barbara</b><br><i>“Surface Mediated Protein Assembly”</i>                               |                         |
| <b>4:45 pm</b> | <b>George Oster, University of California, Berkeley</b><br><i>“Pattern formation: thoughts of a mollusk”</i>                               |                         |
| <b>5:45 pm</b> | <b>Break</b>   |                         |
| <b>6:30 pm</b> | <b>Poster Session II – Two minute talks</b>  | <b>120 Latimer Hall</b> |
| <b>7:30 pm</b> | <b>Poster Session II– Discussions &amp; Light Reception</b>  | <b>Tan Hall Lobby</b>   |

<b>Sunday, January 15, 2012</b>
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| <b>8:00 am</b> | <b>Breakfast</b> | <b>Tan Hall Lobby</b> |
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<b>Sunday Lecture Session I – Discussion chair: Chris Jarzynski</b>	<b>120 Latimer Hall</b>
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| <b>9:00 am</b>  | <b>Andrea Liu, University of Pennsylvania</b><br><i>“The extreme limits of a solid”</i>  |  |
| <b>9:30 am</b>  | <b>Werner Krauth, Ecole Normale Supérieure</b><br><i>“Hard-disk melting: New algorithms, new insights”</i>   |  |
| <b>10:00 am</b> | <b>Joel Moore, University of California, Berkeley</b><br><i>“Non-equilibrium transport and the onset of Fourier’s Law in correlated quantum systems”</i> |  |

**10:30 am      Coffee Break      Tan Hall Lobby**

<b>Sunday Lecture Session II – Discussion chair: Rob Jack</b>	<b>120 Latimer Hall</b>
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**10:45 am      Ehud Altman, Weizmann Institute of Science**  
*“Many-body localization and ultra-slow quantum dynamics”*

**11:15 am      Juan Garrahan, University of Nottingham**  
*“Thermodynamics of Quantum Jump Trajectories”*

**11:45 am      Vlatko Vedral, University of Oxford**  
*“Emergent thermodynamics in a quenched quantum many-body system”*

**12:15 pm      Closing Remarks: David Chandler**

**12:30 pm      Dim Sum Party      775 Tan Hall**