## Berkeley Mini Statistical Mechanics Mtg Friday, Jan. 10, 2014 - Poster Session I

#	Name	Institution	Title of Poster
1	Suri Vaikuntanathan	UC Berkeley	Putting water on a lattice: The importance of long wavelength density fluctuations in theories of hydrophobic and interfacial phenomena
2	Yang Zhang	University of Illinois at Urbana-Champaign	Odd-even Effects of Glass Transition Temperature with a Network- forming Ionic Glass
3	Dima Bolmatov	Cornell University	Thermodynamic and Structural Behavior of Supercritical State
4	Matt Wittman	UC Santa Cruz	Study of scheduling problems using classical algorithms
5	Ayano Chiba	Keio University	Pressure-induced structural change in a polymer melt: Search for liquid-liquid transition in polymers
6	Michael Webb	California Institute of Technology	Computationally-guided Design of Polymer Electrolytes
7	Kateri DuBay	Columbia University	Molecular symmetry, torsional fluctuations, and single- molecule conductance
8	Connie Wang	California Institute of Technology	Substrate sensitivity and allosteric response in signal sequence recognition
9	Kirill Igumenshchev	University of California, Berkeley	Modeling of photoinduced homogeneous proton-coupled electron transfer using a modified Meyer-Miller method
10	Taylor Barnes	California Institute of Technology	Application of Projection-Based Embedding to Large Systems through Accurate Truncation of the Subsystem Basis Set
11	Jason Goodpaster	California Institute of Technology	Accurate and systematically improvable quantum embedding methods for complex systems
12	Jeremy Tempkin	University of Chicago	Using multiscale preconditioning to accelerate the convergence of iterative molecular calculations
13	John Haberstroh	UC Berkeley	Exploring the decomposition of energy-gap fluctuations in pigment protein complexes
14	David Sivak	University of California, San Francisco	Plumbing regulatory networks with feedback-controlled optogenetic perturbation
15	Katie Klymko	UC Berkeley	Pattern Formation in a Model of Driven Particles
16	James Rustad	Corning Incorporated	Compositional effects on redox equilibria in silicate glasses
17	Michael Hagan	Brandeis University	Viral genome structures are optimal for assembly

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18	Matthew Pinson	Massachusetts Institute of Technology	Sorption and Transport with Hysteresis in Mesoporous Materials
19	Glen Hocky	Columbia University	Equilibrium Ultrastable Glasses from Random Pinning"
20	Sang-Won Park	Seoul National University	Dynamic heterogeneity of ionic liquid system: The influence of ionic charge distribution
21	Pengfei Huo	California Institute of Technology	Intra-molecular proton transfer and hydrogen generation in cobalt catalysts
22	Naomi Oppenheimer	University of Chicago	Non-dissipative shapable sheet
23	Jerome Nilmeier	LLNL Lawrence Livermore Lab	Efficient and Precise Methods for Parallelization of Kinetic Monte Carlo Simulations
24	Masaharu Isobe	Nagoya Institute of Technology	Dynamic facilitation and non-equilibrium phase transition in an atomistic model of binary hard disk systems
25	Artur Menzeleev	California Institute of Technology	Kinetically Constrained Ring-Polymer Molecular Dynamics for Non-adiabatic Chemical Reactions
26	Margaret Johnson	Johns Hopkins University	Protein-protein interaction systems modeled using a new integrator for single particle reaction diffusion
27	Kranthi Mandadapu	UC Berkeley	Polarization as a field variable from molecular dynamics simulations: Applications to water at solid interfaces
28	Joshua Kretchmer	California Institute of Technology	Solvent effects during proton-coupled electron transfer reactions
29	Seyit Kale	University of Chicago	Accelerated refinement of chemical reaction pathways via a multi-scale string approach
30	David Limmer	Princeton University	Nonlinear screening and interfacial phase transitions at ionic liquid electrode interfaces
31	Amy Lam	Columbia University	Controlling self-assembly of microtubule spools via kinesin motor density
32	Eunsang Lee	Seoul National University	Comparing structural properties of linear and ring polymer melts confined in the thin film
33	Bin Li	University of California, Berkeley	A classical approach for many-electron non-equilibrium transport
34	Jonathan Landy	UC Berkeley	Bounds on single cell growth rates
35	Ryo Akiyama	Kyushu University	Hidden peak of radial distribution function and effective interaction between like-charged proteins caused by translational motion of solvent molecules.
36	Ranjan Mannige	Lawrence Berkeley National Laboratory	Compositionally robust assembly out of equilibrium in a two component Metal Organic Framework

## Berkeley Mini Statistical Mechanics Mtg. Saturday, Jan. 11, 2014 - Poster Session II

#	Name	Institution	Title of Poster Talk
1	Greg Bowman	UC Berkeley	Finding hidden allosteric sites in proteins
2	Francesco Zamponi	Ecole Normale Superieure	Gardner transition and the properties of glasses at high pressures and low temperatures
3	Franziska Bell	California Institute of Technology	Kinetically constrained Ring-Polymer Molecular Dynamics for Non-adiabatic Chemical Reactions
4	Julian Weichsel	UC Berkeley	Membrane mediated mechanical regulation of biological function
5	Parag Katira	Columbia University	Dispersion in Pseudomonas Aeruginosa Surface Motility and its Effect on Biofilm Formation
6	Jeff Weber	Stanford University	Predicting Activation Mechanisms of Signaling Proteins Using Large Deviation Theory
7	Stephen Cotton	University of California, Berkeley	Symmetrical windowing for quantum states in quasi- classical trajectory simulations: Application to electronically non-adiabatic processes
8	Evan Wang	UC Berkeley	Toward an understanding of actin network elasticity
9	Etienne Fodor	Université Paris Diderot - Laboratoire MSC	Active fluctuations of a tracer in living matter
10	Vikram Vijayaraghavan	University of California, Davis	Growth dominates choice in network percolation
11	Nicolas Giovambattista	City University of New York, Brooklyn College	Pressure- and Heating-Induced Glass-Glass Transformations in Computer Simulations of Water
12	Dayton Thorpe	UC Berkeley	Corresponding States of the High Dimensional East Model
13	Michael Gruenwald	University of Vienna	Hierarchical assembly of complex structures from simple building blocks
14	Grzegorz Szamel	Colorado State University	Universal features of dynamic heterogeneity in supercooled liquids
15	Shachi Katira	UC Berkeley	Membrane reservoirs in biology
16	Patrick Shaffer	UC Berkeley	Charge asymmetric forces associated with air-water interfaces

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17	Kelsey Schuster	UC Berkeley	Decoupled Distributions Imply Non-trivial Dynamical Correlations in Proteins
18	Tom Haxton	Lawrence Berkeley National Laboratory	Design rules for the self-assembly of a porous crystal
19	Grant Rotskoff	UC Berkeley	A structural transition cooperatively modulates hemoglobin oxygen binding affinity to produce dynamic allostery
20	Todd Gingrich	UC Berkeley	Dynamic Phase Transitions in Simple Kinetic Networks
21	Amish Patel	University of Pennsylvania	Water in Hydrophobic Confinement
22	Alexander Hudson	UC Berkeley	Structure and dynamics of water at the ribosomal interface
23	Sean Paradiso	University of California, Santa Barbara	Extending Field-Theory Dynamics of Block Copolymers to Study Evaporation-Induced Ordering
24	Pierre-Andre Noel	University of California, Davis	Fear No Loops: General Motif Theory
25	Chris Fullerton	University of Bath	Using random pinning to investigate amorphous order in stable glasses
26	Michiel Niesen	California Institute of Technology	Membrane Protein Expression Controlled at the Sequence Level
27	William Jacobs	University of Cambridge	Specific interactions and phase separation in protein solutions
28	Milo Lin	UC Berkeley	Dynamical Correlations within Proteins
29	Tuomas Knowles	University of Cambridge	Dynamic renormalisation group reveals sequential mechanism of oligomer generation in protein aggregation
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