Statistical mechanics of soft matter, $(SM)^2$

RMIT University, City Campus

Swanston St, Building 80, level 2, room 2 (back right hand corner)

November 21 - 22, 2013

			Thursday Nov 21		
Prabhakar	Ranganathan	Monash University	A blobology of self-concentrating polymer solutions	9:00	9:20
Gerald	Pereira	CSIRO	Absorption of polymers into and onto thin nano-tubes: Simulations and theory	9:20	9:40
Chunguang	Tang	CSIRO	Slow nucleation and growth in glass-forming alloy CuZr: order at the interface	9:40	10:00
Ravi	Jagadeeshan	Monash University	Concentration Dependent Dynamics of Semidilute DNA Solutions	10:00	10:20
			Tea	**10:20**	**11:00**
Nathan	Clisby	University of Melbourne	Monte Carlo calculation of the hydrodynamic radius for self-avoiding walks	11:00	11:20
Ahmad	Jabbarzadeh	University of Sydney	Molecular Dynamics Simulation of Wetting Phenomena on Smooth and Rough Surfaces	11:20	11:40
Kirill	Glavatskiy	RMIT	Existence of a minimum bubble size during nucleation	11:40	12:00
			Lunch	**12:00**	**1:40**
Burkhard	Duenweg	Max Planck Institute for Polymer Research, Mainz, Germany and Monash University	Towards a New Algorithm for Multiphase Lattice Boltzmann Simulations	1:40	2:00
Suresh	Bhatia	University of Queensland	Simulation of fluid-solid friction and the slip of adsorbates in nanopores	2:00	2:20
Owen	Jepps	Griffith University	Knudsen-limit micropore transport models	2:20	2:40
Billy	Todd	Swinburne University	Nonintrusive pumping of polar fluids at the nanoscale	2:40	3:00
			Tea	**3:00**	**3:40**
Richard	Sadus	Swinburne University	Molecular Simulation of Thermodynamic Extrema in Supercritical Fluids	3:40	4:00
Peter	Harrowell	University of Sydney	The role of particle softness in crystallization and the glass transition	4:00	4:20
Pablo	Palafox	Deakin University	Towards an atomistic understanding of binding principles for gold-binding peptides	4:20	4:40
Eduardo	Dagrosa	University of Melbourne	Applying Torque to Twist Storing Polymers	4:40	4:50
Charlotte	Petersen	RSC, ANU	The Instantaneous Fluctuation Theorem	4:50	5:00
Elliott	Wise	CSIRO	Metadynamics simulation of conformational transitions of milk proteins	5:00	5:10
Elnaz	Hajizadeh Darzehkonani	Swinburne	Non-equilibrium molecular dynamics simulation of dendrimer and hyperbranched molecules undergoing planar elongational flow	5:10	5:20
Andrew	Church	Deakin University	Environment-Dependent Conformational Switching in a Designed Peptide: a Molecular Dynamics Study	5:20	5:30
			Drinks and snacks		
			Friday Nov 22		
Mihail	Popescu	Ian Wark Institute, University of South Australia	Self-propelled chemically active colloids	9:00	9:20
Hunt	Tom	University of Twente	Nonequilibrium molecular dynamics simulation of uniaxial extensional flow	9:20	9:40
Bill	van Megen	RMIT	What happens at freezing; A perspective from experiment and computer simulation of a system of hard spheres	9:40	10:00
Zak	Hughes	Deakin University	Simulations of Biomolecular systems at Silver, Gold and Graphene Interfaces	10:00	10:20
			Tea	**10:20**	**11:00**
Celine	Boiteux	RMIT	Conduction and conformational flexibility of the voltage-gated sodium channel, NavAb	11:00	11:20
Michelle	Gee	University of Melbourne	Mechanobiology applied to the behaviour of bacteria interacting with antibiotics	11:20	11:40
Alan	Mark	University of Queensland	The combined use of multiple reference states and single step perturbation approaches in drug design	11:40	12:00
			Lunch	**12:00**	**1:40**
Gary	Morriss	UNSW	Entropy Production and Flux in QOD Heat Conduction	1:40	2:00
Peter	Daivis	RMIT	Temperature profile of a viscoelastic liquid in Poiseuille flow	2:00	2:20
Gary	Bryant	RMIT	Differential Dynamic Microscopy: A new method for measuring dynamics in soft matter systems	2:20	2:40
Stephen	Williams	ANU	The dissipation theorem and rare events out of equilibrium	2:40	3:00
			Tea	**3:00**	**3:40**
Edith	Sevick	ANU	Single molecule force spectroscopy and non-equilibrium thermodynamics	3:40	4:00
Kurt	Drew	Deakin University	Atomistic Modelling of a DNA-Hairpin at the Aqueous Au(111) Interface	4:00	4:10
Md Sadrul	Chowdhury	University of Sydney	The Distribution of Shear Stress of the Inherent Structures in Supercooled Liquids	4:10	4:20
Ben	Dalton	RMIT	The effects of nanoscale density inhomogeneities on shear flow in unconfined fluids	4:20	4:30
Aaron	Brown	Deakin University	Comparison of Implicit and Explicit solvent models for the simulation of disordered peptides	4:30	4:40
			Drinks		