Statistical Mechanics of Soft Matter 2019 - Draft Program

Mon, 16 I 08:00	Dec 19 08:50 Registration					
	09:00 Welcome					
	09:20 Debra	Bernhardt (Searles)	University of Queensland	Irreversibility for arbitrary protocols - fluctuation theorems as a sufficient but not necessary condition		
09:20	09:40 Michael	Grünwald	University of Utah	Crystallization and spontaneous resolution of chiral molecules		
09:40	10:00 Nathan	Clisby	Swinburne University of Technology	Universal properties of polymer melts from high resolution Monte Carlo simulations of Hamiltonian paths		
10:00	10:20 Dominic	Robe	Monash University	Physical aging in a colloidal glass as transitions between metastable states		
10:20	11:00 Morning tea					
11:00	11:20 Peter	Harrowell	University of Sydney	How useful is structure in amorphous materials?		
11:20	11:40 Tony	Roberts	University of Adelaide	Multiscale computation of microscale systems		
11:40	12:00 Charlotte	Petersen	University of Innsbruck	Understanding confined liquids: confinement by periodic boundaries		
12:00	12:20 Gary	Bryant	RMIT University	Understanding dynamics in complex suspensions using light scattering and differential dynamic microscopy		
	14:00 Lunch					
14:00	14:10 Kannan	Ridings	The University of Auckland	Nanowire stability during solid-liquid phase coexistence		
	14:20 Matthew	King	Griffith University	Fluctuations in a polygonal channel billiards model		
14:20	14:30 Huong Thi Lan	Nguyen	University of Adelaide	Coarse-graining of anisotropic molecules for simplified and fast molecular dynamic simulations		
14:30	14:40 Jared	Wood	Univerisity of Sydney	The behavior of nanorod assemblies, examined with biased sampling methods		
14:40	14:50 Luca	Maffioli	Swinburne University of Technology	Three-body entropy computation for an atomic fluid		
14:50	15:00 Patrick	Bowe	University of Adelaide	Modelling carbon nanotube cap formation via carbon vapour deposition		
15:00	15:40 Afternoon tea					
15:40	16:00 Peter	Daivis	RMIT University	Energy flow in thermostatted nonequilibrium molecular dynamics simulations		
16:00	16:20 Asaph	Widmer-Cooper	University of Sydney	Twisting of nano-platelets: a tale of stress and strain		
16:20	16:40 Andreas	Menzel	University of Dusseldorf	Statistical characterization of the collective behaviour in active suspensions of self-propelled microswimmers		
16:40	17:00 Mirella	Simoes Santos	University of Queensland	Local self-diffusion coefficients of confined fluids through local dissipation theorem		
17:00	18:30 Poster session					
	Belinda	Boehm	University of Adelaide	Understanding solution-phase aggregation of organic semiconductors		
	Isaac	Pincus	Monash University	Viscometric functions and rheo-optical properties of dilute polymer solutions: comparison of FENE-Fraenkel dumbbells with rodlike models		
	Madhuranga	Rathnayake	University of Sydney	Evaluating classical force fields to study dissolution and crystallisation of hybrid organometallic halide perovskites		
	Michael	Rinaudo	University of Sydney	Packing and phase behaviour of nanorods		
	Aritra	Santra	Monash University	Universal behaviour of associative polymer solutions		
19:00	Zakiya Dinner	Shireen	University of Melbourne	Modeling and simulation of aggregation of binary colloids		

Tue, 17 Dec 19							
09:00	09:20 Billy	Todd	Swinburne University of Technology	Heat flux beyond Fourier's law			
09:20	09:40 Ellie	Hajizadeh	University of Melbourne	Multiscale simulations of polymer-bridged colloidal latex particle suspensions			
09:40	10:00 Gang	Sun	University of Sydney	Structure-dynamics connection in glass forming liquids			
10:00	10:20 Chris	Bradly	University of Melbourne	Phase boundaries and universality in solvent-dependent polymer adsorption			
10:20	11:00 Morning tea						
11:00	11:20 Richard	Sadus	Swinburne University of Technology	Ab initio potentials in molecular simulation			
11:20	11:40 Yawei	Liu	University of Sydney	Dynamic simulations of rod-shaped colloidal particles: phase behaviour, self-assembly, diffusion and electrophoresis			
11:40	12:00 Barry	Cox	University of Adelaide	Graphene wrinkles			
12:00	12:20 Ravi	Jagadeeshan	Monash University	Internal friction can be measured with the Jarzynski equality			
12:20	14:00 Lunch						
14:00	14:10 Tobias	Hain	Murdoch University	Thermodynamics of the quantizer problem: the Voronoi liquid			
14:10	14:20 Debora	Monego	University of Sydney	Size-dependent sedimentation of nanocrystals: the role the ligand shell structure			
14:20	14:30 Jabr	Aljedani	University of Adelaide	Variational model of a rippled graphene sheet			
14:30	14:40 Sobin	Alosious	Swinburne University of Technology	Prediction of Kapitza length at solid-fluid interfaces.			
14:40	14:50 Rahil	Valani	Monash University	Superwalking droplets			
14:50	15:30 Afternoon tea						
15:30	15:50 Kirill	Glavatskiy	University of Sydney	Interfacially driven transport theory: a way to unify Marangoni and osmotic flows			
15:50	16:30 Hartmut	Löwen	University of Dusseldorf	Active particles near substrates: from biofilms to colloids in motility patterns			
16:30	16:40 Closing remarks						