Statistical Mechanics of Soft Matter 2019 – Program

Mon, 16 Dec 19 08:00 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			
	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						
	14:10 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			
	14:50 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			
	15:40 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			
	Gerd	Schröder-Turk	Murdoch University	Morphometry.org: Minkowski functionals: robust and versatile shape descriptors			
	Zakiya	Shireen	University of Melbourne	Modeling and simulation of aggregation of binary colloids			
19:00	Dinner						

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						