



#### Monday, 30<sup>th</sup> November 2015

		<b>Session 1 – Chair: Billy Todd</b>		
		Opening and welcome	9:00	9:10
Shibu Saw	University of Sydney	Rigidity of matter as a consequence of configurational constraint	9:10	9:30
Stephen R. Williams	ANU	Beyond Thermodynamics: Totally Nonequilibrium Relaxation towards Equilibrium	9:30	9:50
Pierluigi Cesana	IMI, Kyushu University - Australia Branch	Effective response of elastic-liquid crystal membranes	9:50	10:10
		<b>Tea in AGSE 102 foyer</b>	<b>10:10</b>	<b>11:00</b>
*David Huang	University of Adelaide	Surface effects in nanofluidic energy harvesting	11:00	11:40
Nathan Clisby	University of Melbourne	Monte Carlo simulation of polymers attached to a surface	11:40	12:00
Peter Daivis	RMIT University	Nonlocal constitutive equations for shear flow in fluids with strongly inhomogeneous density and velocity profiles	12:00	12:20
		<b>Lunch</b>	<b>12:20</b>	<b>2:00</b>
		<b>Session 2 – Chair: Nathan Clisby</b>		
*Denis J Evans	ANU	Dissipation and the Foundations of Classical Statistical Thermodynamics	2:00	2:40
Kirill Glavatskiy	University of Queensland	Is local equilibrium sufficient for irreversible systems with delayed response?	2:40	3:00
William van Megen	RMIT University	Exposing a dynamical signature of the freezing transition through the sound propagation gap	3:00	3:20
Sergio De Luca	UNSW	Studying anticancer drugs-dendrimers interactions: a molecular dynamics approach	3:20	3:40
		<b>Tea in AGSE 102 foyer</b>	<b>3:40</b>	<b>4:20</b>
Derek Chan	University of Melbourne	Modelling the collision between a rising bubble and a deformable flat interface	4:20	4:40
Gerald Pereira	CSIRO	Brazil nuts and more	4:40	5:00
		<b>PhD Students' Session – Chair: Federico Frascoli</b>		
Lang Liu	University of Queensland	Interfacial resistance and size-dependent transport coefficients in nanoporous materials	5:00	5:10
Stephen Hannam	RMIT University	MD calculations of intermediate scattering functions for a model colloidal fluid with explicit solvent	5:10	5:20
Ian Douglass	University of Sydney	The role of particle softness in amorphous atomic alloys	5:20	5:30
Maryna Vlasiuk	Swinburne University	Molecular simulation of the thermodynamic properties of liquid neon	5:30	5:40
Matthew King	Griffith University	Chaos and fluctuations in a modified Ehrenfest wind-tree model	5:40	5:50
Daniel Ladiges	University of Melbourne	Frequency-domain Monte Carlo method for linear oscillatory gas flows	5:50	6:00
Adrian Menzel	RMIT University	Planar Poiseuille flow of highly confined polymer solutions	6:00	6:10
		<b>Drinks in EN 612</b>	<b>6:15</b>	<b>7:15</b>
		<b>Dinner at OMAH'S Malaysian Cuisine (338 Burwood Road, Hawthorn)</b>	<b>7:30</b>	

#### Tuesday, 1<sup>st</sup> December 2015

		<b>Session 3 – Chair: Richard Sadus</b>		
Ravi Jagadeeshan	Monash University	Coil-stretch hysteresis in planar mixed flows of polymer solutions at finite concentrations	9:00	9:20
Ahmad Jabbarzadeh	University of Sydney	Surface Induced Crystallization of Polymers	9:20	9:40
Naida M. Lacevic	University of Melbourne	Viscoelasticity of glycerol at ultra-high frequencies investigated via MD simulations	9:40	10:00
David Williams	ANU	The physics of Threading Rotaxenes and Nanotubes	10:00	10:20
		<b>Tea in AGSE 102 foyer</b>	<b>10:20</b>	<b>11:00</b>
*Debra J. Bernhardt	University of Queensland	Nonequilibrium flow in nanopores	11:00	11:40
Mihail N. Popescu	Max Planck Institute	Effective interaction between active colloids and fluid interfaces	11:40	12:00
Guy Metcalfe	Swinburne and Monash U., CSIRO	Entropy Production, Fluctuations and the Slow Approach to Equilibrium in a Mechanical Analogue to Soft Matter: the Soft Billiard	12:00	12:20
		<b>Lunch</b>	<b>12:20</b>	<b>2:00</b>
		<b>Session 4 – Chair: Federico Frascoli</b>		
Prabhakar Ranganathan	Monash University	The mechanobiology of construction and operation of traffic networks in interstitial swarms of bacteria	2:00	2:20
Peter Harrowell	University of Sydney	The Statistical Mechanics of Liquid Structure	2:20	2:40
Andrey Pototsky	Swinburne University	Instability modes and regular density patterns in a colony of self-propelled surfactant particles covering a thin liquid layer	2:40	3:00
Brad Wells	CSIRO	Towards developing structure-property relationships for tactic methacrylic ester polymers	3:00	3:20
Qiang Sun	University of Melbourne	Boundary regularised integral equation formulation of the Debye-Hückel model	3:20	3:40
		<b>Tea and Students' Poster Session in AGSE 102 foyer</b>	<b>3:40</b>	<b>4:40</b>
		Marsel Gokovi (Griffith), Emma Hodges (Monash), Andrew Tarzia (University of Adelaide)		
		<b>Final "wrap-up" and goodbye in AGSE 102 foyer</b>	<b>4:40</b>	

Note: \* denotes a keynote presentation