

## AJ2020 PROGRAM

17/9 Thursday

### DAY ONE MORNING

Tokyo time	Sydney time	Speaker	Title
8.45 – 9 am	9.45 – 10 am	Vince Craig	Welcome
9 – 9.15 am	10 – 10.15 am	Syuji Fuji	Shape-designable liquid marble
9.15 – 9.30 am	10.15 – 10.30 am	Raymond Dagastine	Mass transfer across nanometre thin films between microbubbles
9.30 – 9.40 am	10.30 – 10.40 am	Joe Berry	Mechanics of soft materials
9.40 – 9.50 am	10.40 – 10.50 am	Neha Sharma	Surface coating of liposomal membranes with Gum Ghatti
9.50 – 10 am	10.50 – 11 am	Grant Webber	Specific-ion effects in complex polymer brush systems
<i>10 – 10.30 am</i>	<i>11 – 11.30 am</i>	<i>Morning tea break</i>	
10.30 to 11 am	11.30 am - 12 pm	Keynote: Prof. Kiyoshi Kanie	Size- and shape-controlled liquid phase synthesis of inorganic nanoparticles and application to organic-inorganic hybrid
11 to 11.15 am	12 – 12.15 pm	Hideya Kawasaki	Ultrasonically activation of colloidal gold nanoclusters toward sono-catalysis
11.15 to 11.30 am	12.15 – 12.30 pm	Cathy McNamee	Change in the inter-surface forces between two charged surfaces containing salts by the presence of a liquid flow
11.30 to 11.45 am	12.30 – 12.45 pm	Srinivas Mettu	“Soft tip” Atomic Force Microscopy in probing the interactions of different oil components with calcite surface
11.45 to 12 pm	12.45 – 1 pm	Michael Higgins	Hydration layer structure of biofouling resistant nanoparticles
<i>12 to 1 pm</i>	<i>1 to 2 pm</i>	<i>Lunch break</i>	

## DAY ONE AFTERNOON

Tokyo time	Sydney time	Speaker	Title
<i>12 to 1 pm</i>	<i>1 to 2 pm</i>	<i>Lunch break</i>	
1 to 1.30 pm	2 to 2.30 pm	Keynote: A/Prof. Tamar Greaves	Solvent properties of protic ionic liquid-water mixtures, and their application to biological molecules
1.30 to 1.45 pm	2.30 – 2.45 pm	Chiho Watanabe	Delayed diffusion and unique phase behaviour in polymer crowding micro-emulsions
1.45 to 2 pm	2.45 – 3 pm	Stephen Holt	The adsorption of glucose oxidase on mesoporous aluminum oxide films
2 to 2.10 pm	3 – 3.10 pm	Saffron Bryant	Selective ion transport across a lipid bilayer in a protic ionic liquid
2.10 to 2.20 pm	3.10 – 3.20 pm	Hank (Qi) Han	Conformational changes of protein with ionic liquids: a multi-technique approach
2.20 to 2.30 pm	3.20 – 3.30 pm	Durga Dharmadana	Human neuropeptide substance P self-assembles into semi-flexible nanotubes that can be manipulated for nanotechnology
<i>2.30 to 3 pm</i>	<i>3.30 to 4 pm</i>	<i>Afternoon tea break</i>	
3 – 3.15 pm	4 – 4.15 pm	Anna Wang	Aggregation of highly negatively charged vesicles
3.15 – 3.30 pm	4.15 – 4.30 pm	Rico Tabor	Precise molecular packing from designed surfactants for vesicles and wormlike micelles
3.30 – 3.45 pm	4.30 – 10.45 pm	Hiroki Matsubara	Common black film stability and synergetic adsorption in ionic–nonionic mixed surfactant systems
3.45 – 4 pm	4.45 – 5 pm	Thomas McCoy	Spontaneous self-assembly of thermoresponsive vesicles using a zwitterionic and an anionic surfactant
4:10 pm onwards	5:10 pm onwards	Poster session 1	

18/9 Friday

DAY TWO MORNING

Tokyo time	Sydney time	Speaker	Title
8.35 – 8.50 am	9.35 – 9.50 am	Anthony Stickland	A model system for experimental studies of gas generation in compressible sediments
8.50 – 9 am	9.50 – 10 am	Ramzi Kutteh	Microhydrodynamics of arbitrary-shape passive and active particles in linear flow: daily life at the small scale
9 – 9.10 am	10– 10.10 am	George Franks	Elastic plastic fracture mechanics investigation of toughness of wet colloidal particulate materials: influence of saturation
9.10 – 9.20 am	10.10 – 10.20 am	Ishihara Shingo	Modelling of interaction force between particles and simulation of breakage behaviour
9.20 – 9.35 am	10.20 – 10.35 am	YK Leong	Thixotropic clay gels: microstructure and role of colloidal forces
9.35 – 10 am	10.35 – 11 am	<i>Morning tea break</i>	
10 - 10.30 am	11 – 11.30 am	Keynote: Prof. Naoyuki Ishida	Evaluation of non-DLVO forces between surfaces in liquids by atomic force microscopy
10.30 - 10.45 am	11.30 - 11.45 am	Yuki Uematsu	Is the origin of the negative surface charge of hydrophobic water surface OH ion adsorption?
10.45 – 11.10 am	11.45 – 12.10 pm	Duc Nguyen and Liwen Zhu	Soft-hard Janus nanoparticles for polymer encapsulation
11.10 - 11.20 am	12.10 - 12.20 pm	Lee Shi Ting	LSPR-mediated high-resolution imaging for the study on cell adhesion and spreading
11.20 - 11.30 am	12.20 - 12.30 pm	Aaron Elbourne	Antibacterial liquid metals: biofilm treatment via magnetic activation
11.30 - 12.30 pm	12.30 - 1.30 pm	Poster session 2	
12.30 - 1.30 pm	1.30 – 2.30 pm	<i>Lunch break</i>	

## DAY TWO AFTERNOON

Tokyo time	Sydney time	Speaker	Title
12.30 - 1.30 pm	1.30 - 2.30 pm	<i>Lunch break</i>	
1.30 - 2 pm	2.30 - 3 pm	Keynote: Dr. Catherine Whitby	Protein adsorption at the oil-water interface: role of protein self-association
2 - 2.15 pm	3 - 3.15 pm	Leonie van 't Hag	SANS studies with lipid cubic phase to investigate protein encapsulation and conformation
2.15 - 2.30 pm	3.15 - 3.30 pm	Masumi Villeneuve	Hydrophobic seed proteins on starch granule surface enables gluten-free rice bread making
2.30 - 2.45 pm	3.30 - 3.45 pm	David Beattie	An ATR FTIR study of the interaction of TiO <sub>2</sub> nanoparticle films with $\beta$ -lactoglobulin and bile salts
2.45 - 3 pm	3.45 - 4 pm	Andrew Clulow	Mimicking lipid self-assembly in digesting milks
3 - 3.30 pm	4 - 4.30 pm	<i>Afternoon tea break</i>	
3.30 - 3.45 pm	4.30 - 4.45 pm	Iijima Kazutoshi	Preparation of thin films and hydrogels of polysaccharides via polyion complex nanoparticles
3.45 - 4 pm	4.45 - 5 pm	Nick Reynolds	Self-healing hydrogels formed from nanofibrillar assemblies of the amino acid phenylalanine
4 - 4.15 pm	5 - 5.15 pm	Takuya Yanagimachi	Voltage driven characteristic instability of nematic liquid crystal on chemically patterned substrate
4.15 - 4.40 pm	5.15 - 5.40 pm	Nigel Kirby and Susanne Seibt	1. Small Angle Scattering at the Australian Synchrotron: a fantastic tool for colloid and interface science and 2. A SAXS study of the dynamics of gold nanorod growth
4.40 - 4.50 pm	5.40 - 5.50 pm	Vince Craig	Closing