



#### ACIS 2024 PROGRAM

*Subject to Change*

### SUNDAY 4 FEBRUARY 2024

	1.30pm	Coach Departure – Sydney Airport – bookings essential. Please book when you register
4.00pm	6.30pm	Registration at Crowne Plaza Terrigal. <i>Collect your name badge and satchel, then enjoy some time enjoying the surroundings of Terrigal.</i>
6.30pm	10.00pm	<b>Welcome Reception – Seaside Market Stalls</b> <i>Join your colleagues for a relaxed evening, enjoying some great local food and beverages. Welcome reception is included in a full registration.</i>

## MONDAY 5 FEBRUARY 2024

9.00am	9.10am	Welcome by Chair		
9.10am	10.10am	AE Alexander Lecture <i>Presentation Title, TBA</i> - Professor Calum Drummond, AO, RMIT University		
10.15am	10.40am	Morning Refreshments & Trade Exhibition		Sponsored by
CONCURRENT SESSION 1				
		Biological and Soft Interfaces	Colloid Frontiers: Fundamental & Applications	Colloids and Interfaces in Mineral Processing
		M1.1	M1.2	M1.3
		Henry Kendall 1&2	Wamberal	Avoca / Terrigal
10.45am	11.15am	TO BE CONFIRMED <i>Keynote Speaker</i> <b>Lisa Skedung</b> <i>RISE Research Institutes of Sweden</i>	SHINING A LIGHT IN THE BLACK BOX OF APTAMER SCREENING USING BARCODED LIBRARIES <i>Keynote Speaker</i> <b>Valeria Tohver Milam</b> <i>Georgia Institute of Technology</i>	SURFACE FORCES OF POLYMERS, MINERALS, EMULSIONS AND BUBBLES IN AQUEOUS AND OIL ENVIRONMENTS <i>Keynote Speaker</i> <b>Hongbo Zeng</b> <i>University of Alberta</i>
11.15am	11.35am	LABEL-FREE OPTICAL TECHNIQUES TO STUDY THE SPATIALLY INHOMOGENEOUS RHEOLOGY OF BIOMOLECULAR CONDENSATES <b>Daniele Vigolo</b> <i>The University of Sydney</i>	MODELLING SHELF LIFE AND AGGREGATION IN UHT PROCESSING OF MILK USING AN EQUILIBRIUM MINERAL SPECIATION MODEL <b>Graeme Gillies</b> <i>Fonterra Research And Development Centre</i>	ADVANCED SURFACE CHARACTERISATION OF MINERALS – RECENT ADVANCES AND FUTURE OUTLOOK <b>Susana Brito e Abreu</b> <i>The Julius Kruttschnitt Mineral Research Centre</i>
11.35am	11.55am	AMYLOID FORMATION AND NEUROTOXICITY IN COVID-19 <b>Nicholas Reynolds</b> <i>La Trobe University</i>	LIPIDIC SELF-ASSEMBLY IN PROTIC IONIC LIQUIDS: THE BALANCE OF FORCES THAT CAUSE UNEXPECTED PHASE TRANSITIONS <i>Invited Speaker</i> <b>Livia Salvati Manni</b> <i>The University of Sydney</i>	THE CORRELATION OF CONTACT ANGLE OF SULPHIDE MINERALS WITH INTERACTION FORCES DETERMINED BY COLLOIDAL PROBE ATOMIC FORCE MICROSCOPY <b>Anran Niu</b> <i>The Julius Kruttschnitt Mineral Research Centre</i>

--	--	--	--	--

11.55am	12.05pm	UNDERSTANDING MOLECULAR INTERACTIONS AT THE HAIR SURFACE - A COSMETIC PERSPECTIVE <b>Serena Cozzolino</b> <i>KTH Royal Institute Of Technology</i>	UNLOCKING THE PHYSICAL BEHAVIOR OF SKIM MILK CONCENTRATE: FLOW BEHAVIOR AND PHASE TRANSITIONS <b>Cynthia Andriani</b> <i>The University of Auckland</i>	INVESTIGATION OF THE ROLE OF BUBBLE CLUSTERS AT THE FROTH PHASE VIA X RAY RHEOGRAPHY <b>Imtiaz Shah</b> <i>University of New South Wales</i>
12.05pm	12.25pm	BIOINTERFACIAL CHEMISTRY AND THE DEVELOPMENT OF THUNDERSTORM-TRIGGERED ASTHMA <b>Stuart Prescott</b> <i>University of New South Wales</i>	Long Oral Presentation <b>To Be Confirmed</b>	INVESTIGATING PARTICLE ENTRAINMENT MECHANISM IN THE WAKES OF A RISING BUBBLE <b>Subhashish Mitra</b> <i>University of Newcastle</i>
12.25pm	1.20pm	<i>Lunch and Trade Exhibition</i>		

CONCURRENT SESSION 2				
		M2.1	M2.2	M2.3
		Henry Kendall 1&2	Wamberal	Avoca / Terrigal
1.20pm	2.00pm	<b>PANEL SESSION</b> To be announced		
		Biological and Soft Interfaces	Colloid Frontiers: Fundamental & Applications	Colloids and Interfaces in Mineral Processing
2.00pm	2.20pm	POLYMER BRUSHES IN HIGHLY COMPLEX SOLVENT ENVIRONMENTS <b>Grant Webber</b> <i>The University of Newcastle</i>	POLYMERISATION-INDUCED SELF- ASSEMBLY (PISA): A POWERFUL PLATFORM TECHNOLOGY FOR BESPOKE POLYMER PARTICLES <i>Invited Speaker</i> <b>Steven Armes</b> <i>University of Sheffield</i>	INTERFACIAL CHEMISTRY IN MINERAL GRINDING AND FLOTATION <i>Keynote Speaker</i> <b>Kirsten Corin</b> <i>University of Cape Town</i>
2.20pm	2.30pm	CHEMICALLY GRAFTED HYALURONIC ACID AS A DOPANT FOR THE ELECTRODEPOSITION OF PEDOT ULTRA-THIN FILMS <b>Luiza Aguiar Do Nascimento</b> <i>La Trobe University</i>	FROM WASTE TREATMENT TO WATER TREATMENT: PHASE BEHAVIOUR OF HUMIC ACID - QUATERNISED CHITOSAN COMPLEXES <b>Mingyu Yuan</b> <i>Technische Universität Berlin</i>	
2.30pm	2.50pm	CHARACTERISING THE INTERACTION MECHANISMS OF PNIPAM POLYMER BRUSHES WITH ANIONIC, CATIONIC, AND NON-IONIC SURFACTANTS <b>Andrew Nelson</b> <i>ANSTO</i>	Long Oral Presentation <b>To be confirmed</b>	SUSTAINABLE SYNTHETIC NOVEL POLYACRYLAMIDES FOR IRON OXIDE RECOVERY FROM COMMON GANGUE MINERAL SILICA <b>Sonia Khandaker</b> <i>The University of Newcastle</i>
2.50pm	3.10pm	UNRAVELLING THE AQUEOUS BEHAVIOUR OF PLASMA POLYMERISED ACRYLIC ACID FILMS <b>Karyn Jarvis</b> <i>Swinburne University of Technology</i>	EVALUATION OF INTERACTION FORCES BETWEEN SILICA SURFACES IN TRIBLOCK COPOLYMER SOLUTIONS USING ATOMIC FORCE MICROSCOPY: INFLUENCE OF COEXISTING IONS	NON-IONIC POLYACRYLAMIDE FLOCCULATION AGENTS FOR SEPARATION OF MINERAL-BASED NUCLEAR WASTE SIMULANTS <b>Jacob Rumney</b>

			<b>Naoyuki Ishida</b> <i>Doshisha University</i>	<b>University of Leeds</b>
3.10pm	3.20pm	THE EFFECTS OF LIGAND COMPOSITION ON GOLD NANOPARTICLE ADSORPTION ONTO SUPPORTED LIPID BILAYERS <b>Rashad Kariuki</b> <i>RMIT University</i>	STRONG POLYELECTROLYTES EXHIBIT RE-ENTRANT BEHAVIOUR: UNDERSCREENING IN HYPERSALINE ENVIRONMENTS <b>Hayden Robertson</b> <i>The University of Newcastle</i>	SPECIFIC ION EFFECTS IN FLOTATION OF WATER-SOLUBLE MINERALS IN BRINE SOLUTIONS <b>Kangkang Sun</b> <i>The University of Queensland</i>
3.20pm	3.40pm	ENSEMBLE MEASUREMENTS OF BACTERIAL MOTILITY USING DDM: HIGHLIGHTING BIOLOGICAL VARIABILITY <b>Gary Bryant</b> <i>RMIT University</i>	STRONG POLYELECTROLYTE BRUSHES AS PROBES FOR ION-SPECIFIC UNDERSCREENING <b>Erica Wanless</b> <i>The University of Newcastle</i>	AGGLOMERATION AND AGGREGATION STRATEGIES FOR ENHANCED FINE MINERAL RECOVERY <b>Casey Thomas</b> <i>The University of Melbourne</i>
3.40pm	4.10pm	<i>Afternoon Refreshments</i>		

CONCURRENT SESSION 3				
		Biological and Soft Interfaces	Colloid Frontiers: Fundamental & Applications	Colloids and Interfaces in Mineral Processing
		<b>M3.1</b>	<b>M3.2</b>	<b>M3.3</b>
		<b>Henry Kendall 1&amp;2</b>	<b>Wamberal</b>	<b>Avoca / Terrigal</b>
4.10pm	4.30pm	BEHAVIOUR OF ULTRA-SMALL GOLD NANOPARTICLES AT BIOMEMBRANES – ATOMIC INSIGHT AT SUPPORTED LIPID BILAYER AND LIPOSOME INTERFACES <i>Invited Speaker</i> <b>Aaron Elbourne</b> <b>RMIT University</b>	THE NON-CLASSICAL ELECTRICAL DOUBLE LAYER OF IONIC LIQUIDS <b>Rosa M Espinosa-Marzal</b> <b>University of Illinois at Urbana-Champaign</b>	EFFECT OF PYRITE TEXTURES AND COMPOSITION ON FLOTATION PERFORMANCE <i>Invited Speaker</i> <b>Liza Forbes</b> <b>The University of Queensland</b>
4.30pm	4.50pm	LIPID SELF-ASSEMBLY IN A DEEP EUTECTIC SOLVENT <b>Saffron Bryant</b> <b>RMIT University</b>	SPECIFIC ION EFFECTS AT THE VAPOR-FORMAMIDE INTERFACE: A REVERSE HOFMEISTER SERIES IN ION CONCENTRATION DEPTH PROFILES <b>Anand Kumar</b> <b>CSIRO (Environment)</b>	INTERACTIONS BETWEEN BUBBLE CLUSTERS AND THE PULP-FROTH INTERFACE <b>Sayed Janishar Anzoom</b> <b>University of New South Wales</b>
4.50pm	5.10pm	CHOLESTEROL CONTENT IN MODEL BILAYERS: IS IT REALLY WHAT WE EXPECT ? ANSWERS FROM NEUTRON SCATTERING <b>Stephen Holt</b> <b>Australian Nuclear Science And Technology Organisation</b>	AN IONIC ELEMENT IN LUBRICATING GREASES: WHAT ARE THE IMPLICATIONS? <b>Sergei Glavatskih</b> <b>KTH Royal Institute Of Technology</b>	FLOCCULATION/FLOTATION TO IMPROVE RECOVERY OF FINE MINERALS <b>George Franks</b> <b>The University of Melbourne</b>
5.10pm	5.20pm	BIOPHYSICAL CHARACTERISATION OF ANIONIC LIPID MEMBRANES USING QCM-D AND NEUTRON REFLECTOMETRY <b>Arslan Siddique</b>	UNDERSCREENING IN ELECTROLYTES: INSIGHTS FROM MOLECULAR DYNAMICS AND QUANTUM CHEMISTRY <b>Alister Page</b> <b>The University of Newcastle</b>	BEHAVIOUR OF POLYSIZED PARTICLES IN EXPANDED LIQUID FLUIDIZED BEDS <b>Erhan Noyan Palabiyik</b> <b>The University of Newcastle</b>

5.20pm	5.30pm	University of New South Wales		USING POLYACRYLAMIDES TO IMPROVE THE COLLECTION OF FINE COPPER MINERALS Regina B. D. De Medeiros The University of Melbourne
5.30pm	7.30pm	POSTER NIGHT – Snacks and beverages served, while delegates have the opportunity to discuss their work amongst the poster presentations		
TUESDAY 6 FEBRUARY 2024				
8.55am	9.05am	Welcome by Chair		
9.05am	10.05am	ACIS Plenary Lecture	Professor Julia Kornfield	
10.15am	10.45am	Morning Refreshments & Trade Exhibition		Sponsored by
CONCURRENT SESSION 4				
		Colloids for Delivery of Bioactive Compounds	Nanocrystals and Nanoparticles: Colloidal Stability, self-assembly and interactions with light	Colloid Frontiers: Fundamental & Applications
		T4.1	T4.2	T4.3
		Henry Kendall 1&2	Wamberal	Avoca / Terrigal
10.50am	11.10am	TITLE TO BE CONFIRMED Keynote Speaker Camilla Foged University of Copenhagen	SENSE AND SENSIBILITY OF NANOPARTICLE SELF-ASSEMBLY: IN AND OUT-OF-EQUILIBRIUM DYNAMICS Keynote Speaker Qian Chen University of Illinois At Urbana-Champaign	BUCKLING AND INTERFACIAL DEFORMATION OF FLUORESCENT POLY(N-ISOPROPYLACRYLAMIDE) MICROGEL CAPSULES Jérôme Crassous RWTH Aachen University
11.10am	11.20am			INVESTIGATING REVERSIBLE ASSEMBLIES OF JANUS PARTICLES IN MICROFLUIDIC DEVICES Stephen Chung The University of Auckland

11.20am	11.40am	BIOCOMPATIBLE POLY(2-OXAZOLINE) NANORODS AS A TUNEABLE DRUG DELIVERY PLATFORM <b>Kristian Kempe</b> <b>Monash University</b>	SOFT PLASMONICS BY SELF-ASSEMBLY OF WELL-DEFINED NANOCRYSTALS <i>Invited Speaker</i> <b>Wenlong Cheng</b> <b>Monash University</b>	MICROFLUIDIC MECHANICAL MEASUREMENT OF INDIVIDUAL SOFT COLLOIDS <b>Geoff Willmott</b> <b>The University of Auckland</b>
11.40am	12.00pm	REAL-TIME PH-DEPENDENT SELF-ASSEMBLY OF IONISABLE LIPIDS FROM COVID-19 VACCINES AND IN SITU NUCLEIC ACID COMPLEXATION <b>Haitao Yu</b> <b>RMIT University</b>	SURFACE TOPOGRAPHY QUANTIFICATION OF DNA FUNCTIONALIZED COLLOIDS VIA SUPER RESOLUTION MICROSCOPY <b>Bahar Rouhvand</b> <b>TU Eindhoven</b>	MICROGEL MONOLAYERS AT LIQUID INTERFACES: IN SITU ANALYSIS AND ROLE OF UNIAXIAL COMPRESSION <b>Matthias Karg</b> <b>Heinrich-Heine University</b>
12.00pm	12.10pm	ANGIOPEP-2 FUNCTIONALISED CUBOSOMES FOR BLOOD-BRAIN BARRIER PENETRATION AND DRUG DELIVERY TO THE BRAIN <b>Xudong Cai</b> <b>RMIT University</b>	Short Oral Presentation <b>To Be Confirmed</b>	BICONTINUOUS MICROEMULSION IN POROUS MATERIALS <b>Margarethe Dahl</b> <b>Technische Universität Berlin</b>
12.10pm	12.30pm	PROSPECTIVE SUBUNIT NANOVACCINE AGAINST MYCOBACTERIUM TUBERCULOSIS INFECTION - CUBOSOME LIPID NANOCARRIERS OF CORD FACTOR, TREHALOSE 6,6' DIMYCOLATE <b>Sampa Sarkar</b> <b>RMIT University</b>	CONTROLLING OPTICS VIA PRECISION ASSEMBLY OF HYBRID NANOPARTICLE SUPERSTRUCTURES <b>Alison Funston</b> <b>Monash University</b>	CARBON NITRIDES STABILIZED PICKERING EMULSIONS AND THE CATALYSIS AT LIQUID INTERFACES <b>Jingsan Xu</b> <b>Queensland University Of Technology</b>
12.30pm	1.30pm	Lunch		



CONCURRENT SESSION 5				
		Colloids for Delivery of Bioactive Compounds	Liquid interfaces: droplets, bubbles and thin films	Colloid Frontiers: Fundamental & Applications
		<b>T5.1</b>	<b>T5.2</b>	<b>T5.3</b>
		<b>Henry Kendall 1&amp;2</b>	<b>Wamberal</b>	<b>Avoca / Terrigal</b>
1.30pm	1.50pm	FUSOGENIC CUBOSOME LIPID NANOPARTICLES FOR THE DELIVERY OF THERAPEUTICS AND VACCINES <b>Charlotte Conn</b> <i>RMIT University</i>	WETTABILITY, LIQUID FRICTION AND SURFACES SLIPPERY TO LIQUIDS <i>Keynote Speaker</i> <b>Glen McHale</b> <i>University of Edinburgh</i>	TITLE TO BE CONFIRMED <i>Keynote Speaker</i> <b>Nick Ainger</b> <i>Product Engineering, Science &amp; Technology, Unilever U.K. Central Resources Limited</i>
1:50pm	2:00pm	SUPERPARAMAGNETIC IRON OXIDE NANOPARTICLE-LOADED MAGNETOLIPOSOME FOR TUMOR TARGETED DELIVERY <b>Sia Chin Siew</b> <i>Monash University Malaysia</i>		
2.00pm	2.20pm	INVERSE CUBIC AND HEXAGONAL MESOPHASE EVOLUTION WITHIN IONIZABLE LIPID NANOPARTICLES CORRELATES WITH MRNA TRANSFECTION IN MACROPHAGES <b>Maggie Zhai</b> <i>RMIT University</i>	EXPLAINING THE EXCEPTIONAL SLIPPERINESS OF COVALENTLY ATTACHED LIQUIDS - PART I <b>Chiara Neto</b> <i>The University of Sydney</i>	Long Oral Presentation <b>To be confirmed</b>
2.20pm	2.40pm	CONSUMER-FRIENDLY DUAL-SHELL FUNGAL CHITOSAN-SILICA MICROCAPSULES WITH ENHANCED MECHANICAL AND BARRIER PROPERTIES FOR POTENTIAL COSMETIC APPLICATIONS <b>Dan Baiocco</b> <i>University Of Birmingham</i>	EXPLAINING THE EXCEPTIONAL SLIPPERINESS OF COVALENTLY ATTACHED LIQUIDS - PART II <b>Isaac Gresham</b> <i>The University of Sydney</i>	WHAT DO THE NEXT GENERATION OF "GREEN" SURFACTANTS LOOK LIKE, AND HOW DO WE MAKE THEM? <b>Rico Tabor</b> <i>Monash University</i>

2.40pm	3.00pm	RETROGRADE TRANSPORT PROTEIN ACTIVATES FAST AXONAL TRANSPORT OF GOLD NANOPARTICLES IN LIVE NEURONS <b>Wenqian Wang</b> <i>University of New South Wales</i>	WHAT MAKES SCALS SLIPPERY? NANOSCALE INSIGHT FROM MOLECULAR SIMULATIONS <b>Antonio Tinti</b> <i>Sapienza University Of Rome</i>	HOW BUBBLES STABILISE UNDER CHEMICAL OVERSATURATION <b>Hongjie An</b> <i>Griffith University</i>
3.00pm	3.20pm	PH RESPONSIVE CUBOSOMES AND HEXOSOMES FOR DELIVERING ANTICANCER AND ANTIFUNGAL DRUGS <b>Nhiem Tran</b> <i>RMIT University</i>	GRAFTING HETEROGENEITIES RULE WATER INTRUSION AND EXTRUSION IN NANOPORES <b>Fabio Rasera</b> <i>Università Sapienza Di Roma</i>	THREE-DIMENSIONAL ARRESTED EMULSION STRUCTURES QUANTIFIED USING CONFOCAL MICROSCOPY <b>Maryam Hosseini</b> <i>University of New South Wales</i>
3.30pm	3:50pm	EMULSION-BASED APPROACHES FOR POLYMER NANOCOMPOSITE DESIGN FOR BIOMEDICAL APPLICATION <b>Vipul Agarwal</b> <i>University of New South Wales</i>	IMPROVED CONTACT ANGLE ANALYSIS THROUGH A MACHINE LEARNING-BASED APPROACH <b>Daniel Shaw</b> <i>The University of Melbourne</i>	Standard Oral Presentation <b>To be confirmed</b>
3.50pm	4.30pm	<i>Afternoon Refreshments</i>		
4.30pm	5.30pm	<b>ACIS ANNUAL GENERAL MEETING – McMasters ROOM (To be confirmed)</b>		
7.00pm	11.30pm	<b>ACIS GALA DINNER – Come and celebrate the ACIS 10<sup>th</sup> birthday, bring your best party hat!</b> <b>Dress Code: Cocktail or Smart Casual</b>		
		<b>Crowne Plaza</b>		

## WEDNESDAY 7 FEBRUARY 2024

### CONCURRENT SESSION 6

		Colloids for Delivery of Bioactive Compounds	Colloid Frontiers: Fundamental & Applications	Liquid interfaces: droplets, bubbles and thin films
		W6.1	W6.2	W6.3
		Henry Kendall 1&2	Wamberal	Avoca / Terrigal
9.00am	9.20am	COUPLING SURFACE INTERACTIONS WITH COLLOIDAL TRANSPORT TO UNDERSTAND ANTIBIOTIC DELIVERY WITH LIPID NANOCARRIERS <b>Brendan Dyett</b> <i>RMIT University</i>	SPATIALLY RESOLVED DYNAMIC LIGHT SCATTERING: CHARACTERIZING COLLOIDS OVER UNPRECEDENTED RANGES OF TURBIDITY AND FLOW <b>Michiel Hermes/Nienke Oldenburg</b> <i>Inprocess-lsp</i>	PROTEIN ADSORPTION AT THE OIL-WATER INTERFACE: EFFECT OF PROTEIN DENATURATION <i>Invited Speaker</i> <b>Catherine Whitby</b> <i>Massey University</i>
9.20am	9.30am	REGULATING THE STRUCTURAL POLYMORPHISM AND PROTEIN CORONA COMPOSITION OF PHYTANTRIOL-BASED LIPID NANOPARTICLES VIA CHOLINE IONIC LIQUIDS <b>Mohamad El Mohamad</b> <i>RMIT University</i>	HIGH-THROUGHPUT AQUEOUS ELECTROLYTE STRUCTURE PREDICTION USING IONSOLVR AND EQUIVARIANT NEURAL NETWORK POTENTIALS <b>Sophie Baker</b> <i>University of Newcastle</i>	Short Oral Presentation <b>To be confirmed</b>
9.30am	9.50am	CONSEQUENCES OF ADSORPTION OF GASTROINTESTINAL BIOMOLECULES ONTO DRUG PARTICLES <b>Ben Boyd</b> <i>University of Copenhagen</i>	FREQUENCY ENHANCED ELECTROCHEMICAL PRESSURE SOLUTION AND ITS APPLICATIONS IN NANOFABRICATION <b>George Greene</b> <i>La Trobe University</i>	ATR FTIR SPECTROSCOPY OF PROTEIN AND SURFACTANT ADSORPTION TO THE OIL-WATER INTERFACE <b>David Beattie</b> <i>University of South Australia</i>
9.50am	10.10am	EXPLORATION OF PROTEIN–NANOPARTICLE INTERACTIONS IN HUMAN BLOOD <b>Yi David Ju</b>	SEE TINY BETTER: CASE STUDIES OF A NEW IMAGING MODALITY ON PARTICLE CHARACTERISATION AND PARTICLE AGGREGATION AND DEPOSITION	SETTING THE ADSORPTION TIMER OF PROTEIN COMPLEXES AT OIL/WATER INTERFACES BY CHOOSING THE APPROPRIATE POLYSACCHARIDE PARTNER

		<b>RMIT University</b>	<b>Ray Dagastine</b>	<b>Sashikumar Ramamirtham</b> <b>University Of Edinburgh</b>
10.10am	10.30am	MOLECULAR DYNAMICS SIMULATIONS OF DRUGS SOLUBILIZATION INTO MIXED BILE SALT/PHOSPHOLIPID MICELLES <b>Fatmegyul Mustan-Borisova</b> <b>Sofia University</b>	CHARACTERIZATION OF SURFACE COATED ALUMINAS USING LOW-FIELD NMR SOLVENT RELAXATION AND HSP <b>David Fairhurst</b> <b>Colloid Consultants, Ltd.</b>	BUMPY WATER AND LANGMUIR FILMS REVISITED: SELF ASSEMBLY OF NATURAL BRANCHED FATTY ACIDS LEADS TO FACILE, TUNEABLE NANOPATTERNING <b>Mark Rutland</b> <b>KTH Royal Institue of Technology</b>
10.30am	11.00am	Morning Refreshments		
CONCURRENT SESSION 7				
		Biological and Soft Interfaces	Nanocrystals and Nanoparticles: Colloidal Stability, self-assembly and interactions with light	Liquid interfaces: droplets, bubbles and thin films
		W7.1	W7.2	W7.3
		Henry Kendall 1&2	Wamberal	Avoca / Terrigal
11.00am	11.20am	TUNING THE MECHANICAL PROPERTIES OF LIPID BILAYERS TO BUILD A PROPAGATING PROTOCELL <b>Joshua Marlow</b> <b>University of New South Wales</b>	EXPERIMENTAL INVESTIGATIONS OF UNDERSCREENING <b>Vincent Craig</b> <b>Australian National University</b>	LINKING AFM TO MICROFLUIDICS TO STUDY DROP ADHESION – A FRAMEWORK TO CALCULATE WORK OF ADHESION IN AFM <b>Xiaotong Song</b> <b>The University of Melbourne</b>
11.20am	11.40am	LUBRICIN (PRG-4) ANTI-FOULING COATING FOR SURFACE-ENHANCED RAMAN SPECTROSCOPY BIOSENSING: TOWARDS A HIERARCHICAL SEPARATION SYSTEM FOR ANALYSIS OF BIOFLUIDS <b>Mingyu Han</b> <b>Agriculture &amp; Food, CSIRO</b>	SHAPE-SHIFTING CHIRAL NANOPARTICLES VIA CONTROL OF SURFACE FORCES <b>Asaph Widmer-Cooper</b> <b>The University of Sydney</b>	CHARGE GENERATION AT THE FLUID-SOLID INTERFACE <b>Joseph Berry</b> <b>The University of Melbourne</b>

11.40am	12.00pm	THE ROLE OF PH IN THE BINDING OF THE HISTIDINE RICH ANTIMICROBIAL PEPTIDE CAERIN 1.1 TO BIOMIMETIC MEMBRANES <b>Anton Le Brun</b> <i>ANSTO</i>	HETEROAGGREGATION AS A TOOL TO IMPROVE COLLOIDAL STABILITY AND ANTIOXIDANT ACTIVITY OF NANOZYME DISPERSIONS <b>Istvan Szilagyi</b> <i>University Of Szeged</i>	TRAMPOLINING OF DROPLETS ON HYDROPHOBIC SURFACES USING ELECTROWETTING <b>Zhantao Wang</b> <i>Zhongshan Polytechnic</i>
12.00pm	12.10pm	HIGH-THROUGHPUT INVESTIGATIONS OF FUSION PEPTIDE INTERACTIONS WITHIN THE LIPIDIC CUBIC PHASE <b>Izabela Milogrodzka</b> <i>ANSTO</i>	Long Oral Presentation <i>To Be Confirmed</i>	RECONFIGURABLE PICKERING EMULSIONS <b>Shivangi Chourasia</b> <i>Massey University</i>
12:10	12:20	INTERFACIAL COMPOSITION CONTROL OF NOVEL IONIC MATERIALS USING APPLIED FIELDS <b>Sichao Li</b> <i>KTH Royal Institute Of Technology</i>		UNDER THE OXIDE – INVESTIGATION OF THE STRUCTURES AROUND THE OXIDE-LM REGION <b>Pierre Vaillant</b> <i>RMIT University</i>
12.20pm	1.30pm	Lunch		

CONCURRENT SESSION 8				
		Biological and Soft Interfaces	Nanocrystals and Nanoparticles: Colloidal Stability, self-assembly and interactions with light	Liquid interfaces: droplets, bubbles and thin films and Bioactive
		W8.1	W8.2	W8.3
		Henry Kendall 1&2	Wamberal	Avoca / Terrigal
1.30pm	1.50pm	IN VITRO DIGESTION OF DAIRY LIPIDS: EFFECTS OF INTERFACIAL COMPOSITION <i>Invited Speaker</i> <b>Malinda Salim</b> <i>Monash Institute Of Pharmaceutical Sciences</i>	LIGANDS AND UPCONVERSION NANOPARTICLES: UNRAVELING THE QUENCHING INTERACTION <i>Invited Speaker</i> <b>Jiajia Zhou</b> <i>University Of Technology Sydney</i>	ELECTROCHEMICAL AND CORROSION PROPERTIES OF IONIC LIQUIDS <b>Tamar Greaves</b> <i>RMIT University</i>
1.50pm	2.10pm	Long Oral Presentation <i>To be confirmed</i>	SPECTROELECTROCHEMISTRY OF QUANTUM DOTS <b>Paul Mulvaney</b> <i>The University of Melbourne</i>	SOLID METAL IN LIQUID METAL COLLOIDS FOR THE PRODUCTION OF AMMONIA <b>Torben Daeneke</b> <i>RMIT University</i>
2.10pm	2.30pm	INTERACTIONS OF BILIARY MICELLES WITH POLAR LIPIDS FROM MILK <b>Andrew Clulow</b> <i>ANSTO</i>	HOW TO GET THE MOST OUT OF NANOPARTICLE CHARACTERISATION INSTRUMENTATION – THE VALUE OF USING REFERENCE MATERIALS, STANDARDISED METHODS AND DOCUMENTARY STANDARDS <b>Åsa Jämting</b> <i>National Measurement Institute</i>	STRUCTURAL EVOLUTION OF LIQUID METAL AND ALLOYS USING SMALL ANGLE NEUTRON SCATTERING <b>Vaishnavi Krishnamurthi</b> <i>RMIT University</i>
2.30pm	2.50pm	SPECIFIC IONIC LIQUID EFFECT ON MODEL PROTEINS <b>Qi Han</b> <i>RMIT University</i>	TENSILE BENEFITS OF NANOFIBERS IN PAINT FILMS <b>Geosmin Turpin</b> <i>University of Sydney</i>	EXPLORING BIOSURFACTANTS AS A SUSTAINABLE ALTERNATIVE TO CHEMICAL SURFACTANTS <b>Yang Li</b> <i>The University Of Queensland</i>

2.50pm	3.00pm	HOW CRUCIAL IS STRUCTURE? A NOVEL APPROACH TO OBSERVING INTERFACIAL STRUCTURING OF IONIC LIQUIDS <b>Daniel Morris</b> <i>University Of New South Wales</i>	THE COLLOIDAL AND FLUORESCENCE PROPERTIES OF NANODIAMONDS <b>Philip Reineck</b> <b>Giannis Thalassinos</b> <i>RMIT University</i>	SUPRAMOLECULAR RESTRUCTURING OF ULTRALOW CROSSLINKED MICROGELS FOR TARGETED ENCAPSULATION (SUPRAGELS) <b>Alan Francisco Mejia</b> <i>RWTH Aachen University</i>
3.00pm	3.20pm	STRUCTURED BIOLAYER EMULSIONS GENERATE ULTRA-STABLE AND MULTIFUNCTIONAL EMULSION DROPLETS WITH BIOCATALYTIC INTERFACES <b>Frank Sainsbury</b> <i>Griffith University</i>	LIQUID METAL-ENABLED CRYSTALLIZATION OF ORGANOMETALLIC CHARGE TRANSFER COMPLEXES <b>Mahroo Baharfar</b> <i>University of New South Wales</i>	SURFACTANT-FREE OIL-IN-WATER NANOEMULSIONS <b>Helena Hansen</b> <i>Griffith University</i>
3.20pm	3.30pm	LIQUID-LIQUID PHASE SEPARATION INDUCED CARBON NANODOTS ASSEMBLY <b>Lei Bao</b> <i>RMIT University</i>	FOLLOWING THE VOLUME PHASE TRANSITION OF THERMORESPONSIVE MICROGELS BY DYNAMIC LIGHT SCATTERING AND TURBIDITY: CORRELATIONS DEPEND ON MICROGEL HOMOGENEITY <b>Marius Otten</b> <i>Heinrich-Heine-University Düsseldorf</i>	IN SITU IMMOBILIZATION OF MULTI-ENZYMES FOR ENHANCED SUBSTRATE CHANNELING OF ENZYME CASCADE REACTIONS: A NANOARCHITECTONICS APPROACH BY DIRECTED METAL ORGANIC FRAMEWORKS <b>Dulini Fernando</b> <i>Deakin University</i>
3.30pm	4.00pm	<b>CLOSING CEREMONY AND AWARDS</b>		
3.45pm	4.15pm	<i>Afternoon Refreshment</i>		
4.30pm		Bus Departure – bookings essential Terrigal to Sydney Domestic Airport		