17th Conference of the International Association of Colloid and Interface Scientists
Monday 27 June 2022 - Thursday 30 June 2022
Brisbane Convention & Exhibition Centre and Online

As at 20 June 2022

	SUNDAY 27 JUNE 2022
18:00 - 19:30	Welcome Reception

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	MONDAY 27 JUNE 2022			
10:30	**Main plenary** **Meeting Room P10 & 11**			
	Opening Ceremony & Welcome Address			
11:00	**Plenary 1**			
	A.E. Alexander Lecture Structure building by duplexing helical filaments (RNA or DNA) **Prof. Stephen Hyde, FAA**			
	Concurrent 1 **Meeting Room P10 & 11**	**Concurrent 2** **Meeting Room P9**	**Concurrent 3** **Meeting Room P8**	**Concurrent 4** **Meeting Room P7**
	Amphiphilic and Supramolecular Assemblies	**Droplets, Bubbles and Wetting**	**Environmental Colloid and Interface Science**	**Catalysis and Surface Reactions**
12:00	**Keynote Speaker** Rapid-Seal Wound Gel: The Self-Assembly and Colloid Science Underlying a Product that Stops Bleeding **Prof Srini Raghavan**	**Keynote Speaker** Gibbsian Surface Thermodynamics Of Liquid–vapor Wetting Of Rough Surfaces And The Effect Of Interface Curvature On Solid–liquid Equilibrium **Prof Janet Elliott**	**Keynote Speaker** Multifunctional Carbon Dots: synthesis, properties and applications **Prof Qin Li**	73: Responsive Pickering Emulsions Stabilized By Soft Protein Particles For Biphasic Catalysis **Prof To Ngai**
12:15				144: Interfacial Engineering In Accelerate Photoelectrocatalytic Solar Energy Conversion **Dr Zhiliang Wang**
12:30	23: Solvent Effects Of Protic Ionic Liquids On Proteins **A/Prof Tamar Greaves**	85: How Spontaneous Charging In Sliding Drops Affects Their Motion **Prof Hans-Juergen Butt**	233: From Treasure To Trash: Small Microplastics <300 µm Abundant In Surface Waters Of The Great Barrier Reef Marine Park **Dr Wye-Khay Fong**	33: Hpmc And Chitosan Film For The Immobilization Of Lipase From Mucor Miehei. Operational, Structural And Morphological Study. **Dr Aristotelis Xenakis**
12:45	17: Self-assembly In Deep Eutectic Solvents **Prof Karen Edler**	279: Fast And Accurate Surface Wetting Characterisation Using Machine Learning **Dr Joe Berry**	97: Phase Behaviour And Colloidal Structures Formed By Humic Acid And Systematically Modified Polyelectrolytes - Implications For Water Treatment **Prof Michael Gradzielski**	276: Investigating The Influence Of Ph On The Lipolysis Of Nanosized Triolein Films **Dr Ben Humphreys**
13:00	**Lunch Break, Exhibtion & Poster Viewing** **13:00 - 14:00**			60: Reconstructions In Metal Nanoparticles With Complex Shapes During Cathodic Electrocatalysis **Prof Anna Klinkova**
13:15	**SafeREnergy Lunchtime Forum** **Speaker: Professor Ying (Ian) Chen, Hub Director, ARC Research Hub for Safe & Reliable Energy/Chair of Nanotechnology, Deakin University** **Topic:Battery Safety Improvement by Engineering Electrode Surface & Interfaces**			
13:30				
13:45	**Lunch Break, Exhibtion & Poster Viewing**			
	Amphiphilic and Supramolecular Assemblies	**Droplets, Bubbles and Wetting**	**Environmental Colloid and Interface Science**	**Frontiers of Colloid, Interface and Surface Science**
14:00	187: Interfacial Behaviour Of Sugar-based Surfactants At The Solid-liquid Interface In Relation To Their Structure And Solution Behaviour **Prof Tommy Nylander**	24: The Surface Potential Is Key To Explaining Ion Specific Bubble Coalescence Inhibition. **Dr Timothy Duignan**	25: The Key Factor To Design Sustainable Surfactants; Molecular Conformation Of Bio-based Anionic Surfactant, Internal Olefin Sulfonate In Water **Dr Tadashi Sugahara**	100: The Electrostatic Origins Of Specific Ion Effects: Quantifying The Hofmeister Series For Anions **Prof Alister Page**
14:15	235: Using External Stimuli To Control Viscosity Of Surfactant Self-assemblies, From Wormlike Micelles To Vesicles And Beyond **A/Prof Rico Tabor**	134: Predicting Contact Angle Hysteresis On Surfaces With Randomly Distributed Poles: Water On A Hydrophobic Surface **Mr Pawan Kumar**	270: Understanding Molecular Forces Governing The Transfer Of Electrolytes Between An Aqueous Solution And Water-poor Reverse Extractant Aggregates **Prof Thomas Zemb**	274: The Colloidal Stability Of Ligand-coated Nanoparticles **A/Prof Asaph Widmer-Cooper**
14:30	45: Rhamnolipids And Xanthan Gum: Interactions Between Biobased Formulation Ingredients **Miss Niamh Leaman**	254: Drop Impact Of Colloidal Fluids **A/Prof Geoff Willmott**	303: Amphiphilic Molecule At Aerosols Water-air Interface: Adsorption Of Low Volatility Pheromones During Atmospheric Transport **Mr Ludovic Jami**	284: A Simple And Fast Microscopy method To Measure The Size And Shape Of Particles From Nanometres To Millimetres **Prof Ray Dagastine**
14:45	32: Internal Structure Detection Of Biomolecular Condensates **Dr Yi Shen**	306: Zein Self-assembly From Evaporating Binary Droplets **Prof Paul Takhistov**	78: Rapid Waste Flotation For Nuclear Effluent Clean-up Using Novel Diblock Polymers **A/Prof Timothy Hunter**	217: Crystalline Ion Adsorption in Stern Layers At Amorphous Solid / Aqueous Solution Interfaces At Low Salt Concentrations **Prof Rob Atkin**

15:00	145: Modulating Micelle Morphology And Electrostatic Correlations Through Specific Ion Interactions In Deep Eutectic Solvents **Dr Adrian Sanchez-Fernandez**	183: Adaptive Two Capacitor Model To Describe Slide Electrification In Moving Waterdrops **Prof Stefan Weber**	**Bio-Inspired Systems and Bio-Interfaces** 256: Pathways From Internalization To Excretion Of Pegylated Microparticles In Hela Cells. **Prof Noritaka Kato**	215: High-resolution Afm Imaging Of Stern Layer Ions At The Interfaces Between Aqueous Solutions And Amorphous Surfaces: Effect Of Solution Conditions **Dr Jianan Wang**
15:15	316: Effect Of Polyols On Membrane Structures Of Liposomes: a Study Using Small-angle X-ray Scattering Data And Generalized Indirect Fourier Transformation **Prof Hideki Sakai**	147: Microscopic Insight Into Capillary Force Balance At Triple Contact Line **Dr Jingcun Fan**	248: Allergenicity Of Pollen Allergens In Thunderstorm Asthma: Biomimetic Model System Explains **Mr Arslan Siddique**	258: Magnetic Colloids Adsorbed At Fluid Interfaces Acting As Interfacial Swimmers And Colloid Adsorption Probes. **Dr Fernando Martínez-Pedrero**
15:30	11: Resonant Acoustic Mixing Method To Produce Lipid-based Liquid-crystal Nanoparticles **Dr Dilek Yalcin**	20: Non-aqueous Foams Stabilized By Fatty Acid Crystalline Particles **Dr Anne Laure Fameau**	158: Dynamics Of Pollen Grain Rupturing **Ms Maryam Hosseini**	66: Performance Evaluation Of 'distance' Metrics In Ai-driven Autonomous Retrosynthesis Of Nanostructures **Prof Lilo Pozzo**
15:45	123: Potential Of Bile Salt-containing Liposomes As Carriers Of Health-promoting Resveratrol **Miss Aygul Can**	308: Controllable Positive/negative Phototaxis Of Millimeter-sized Object **Prof Syuji Fujii**	160: Molecular And Colloidal Diffusive Transport In Bacterial Cellulose Biofilms **Dr Firoozeh Babayekhorasani**	178: Optically Evolved Assembling Of Colloidal Particles At Solution Surface **Prof Hiroshi Masuhara**
16:00	**Tea Break, Exhibtion & Poster Viewing**			
	Amphiphilic and Supramolecular Assemblies	**Droplets, Bubbles and Wetting**	**Bio-Inspired Systems and Bio-Interfaces**	**Frontiers of Colloid, Interface and Surface Science**
16:30	125: New Design Rules For Hydrophobically-driven Assembly Of Amphiphiles **Prof Nicholas Abbott**	120: Droplet Friction On Superhydrophobic Surfaces For Different Droplet Sizes And Across Different Speeds **Dr Dan Daniel**	79: Neuron-targeting Nanoparticles Functionalised By Retrograde Transport Proteins **Prof Guangzhao Mao**	50: Probing Specific Ion Effects In Non-aqueous Electrolytes Using A Thermoresponsive Polymer Brush **Prof Erica Wanless**
16:45	143: How Ionic Liquid Composition And Structure Affect Micelle Morphology **Dr Joshua Marlow**	221: Nucleation Mechanisms Of Surface Nanobubbles/nanodroplets By Solvent Exchange **Mr Hongjie An**	113: Bioinspired Asymmetric Mof-on-mof Membrane For Lithium Recovery **Dr Milton Chai**	48: The Role Of The Solvent In Specific Ion Effects: Pnipam Brushes In Non-aqueous Electrolytes **Mr Hayden Robertson**
17:00	153: Hydration, Specific Ion Effects And Isomerism In Self-assembly: The Case Of Surface Active Ionic Liquids **Prof Marija Bester-Rogac**	150: Cold-bursting: A Novel Method For Preparation Of Triglyceride Nanoparticles Upon Cooling And Heating **Dr Diana Cholakova**	222: Organosilica Nanoparticles As Real-time Oxygen And Ph Biosensors For Spatio-temporal Monitoring Within 2d And 3d Cell Cultures **Mr Gabriel Huynh**	195: Harnessing Electrostatic Forces To Create Liquid Marbles **Prof Grant Webber**
17:15	44: Dilution And Interfacial Properties Of Cyclic Containing Sulfonate Surfactants **Miss Laura Deeming**	182: Self-organization Of Linearly Arranged Water/water Droplets Entrapping Dna And Living Cells **Ms Mayu Shono**	261: Bio-nano Interactions Of Organosilica Nanoparticles With Myeloid Derived Immune Cells **Mr Edward Henderson**	135: Selecting Cellulose Nanocrystals For A Desired Application: The Importance Of Size And Surface Chemistry **Dr Christine Browne**
17:30	285: Surfactant Self Assembly In Halogen Free Deep Eutectic Systems **Ms Elly Kim Bathke**	171: Revisiting The Map For Bubble Coalescence In Aqueous Electrolyte Solutions: An Insight On The Formation Of Oceanic Whitecaps **Dr Bo Liu**	4: Separation By Complexation **Dr Saskia Lindhoud**	63: Specific Ion Effects Within Adsorption/desorption Of Inorganic Ions At Liquid Surfaces **Mr Anand Kumar**
17:45	47: Biliary Micelle Structures Associated With Milk Lipid Digestion **Dr Andrew Clulow**	13: Viscoelastic Droplet Impact Dynamics And Its Penetration Through The Superhydrophobic Mesh **Dr Abbasali Abouei Mehrizi**	103: Photocrosslinked Gradient Colloidal Suspensions For Controlled Spatial Differentiation Of Mesenchymal Stem Cells **Mr Thomas Molley**	5: Cellulose Microgels (cmgs) From Ionic Liquids: A Novel Approach To A Water-in-oil (w/o) Biocompatible Pickering Emulsifier **Miss Katherine Lefroy**
18:00	128: Surfactant-free Techniques For Interfacially Enriching and Dip Coating Amphiphilic Nanoparticles Using Hydrotropes **Ms Geosmin Turpin**	108: Michael Addition Reaction In Developing Functional & Tolerant Bio-inspired Liquid Wettability **Prof Uttam Manna**	179: Confinement Effects On The Diffusion Of Colloidal Tracers **Prof Eduardo Guzmán**	55: Adjustable Viscoelasticity Of Gelled Liquid-liquid Interfaces Caused By Interfacial Transformations Of Block Copolymer Micelles **Prof Felix Plamper**
18:15	224: Core Cross-linked Polymer Micelles With Upper Critical Solution Temperature **A/Prof Shin-Ichi Yusa**	281: Cavitation Inception Of Fast Dewetting Liquid Films **Mr Lu Liu**	141: Biodegradable Polymeric Fluorescent Nano-assemblies For Direct Visualization And Quantification Of Antimicrobial Activity **Ms Ruma Ghosh**	243: Specific Ion Effects And Decay Lengths In Aqueous And Non-aqueous Electrolytes **Mr Gareth Elliott**

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	TUESDAY, 28 JUNE 2022			
	Main plenary **Meeting Room P10 & 11**			
10:00	**Hardcopy Poster Presentation Session**			
11:00	**Plenary 2** The physics of the particles we emit: do we understand it and apply it? **Prof. Lidia Morawska, FAA**			
	Concurrent 1 **Meeting Room P10 & 11**	**Concurrent 2** **Meeting Room P9**	**Concurrent 3** **Meeting Room P8**	**Concurrent 4** **Meeting Room P7**
12:00	**Surface Forces and Hydrophobicity in Particle Interactions**	**Droplets, Bubbles and Wetting –> Interfacial Dynamics and Lubrication**	**Bio-Inspired Systems and Bio-Interfaces**	**Frontiers of Colloid, Interface and Surface Science**
	Keynote Speaker Complexity of colloidal interactions across electrolytes at high concentration **Prof Susan Perkin**	**Keynote Speaker** Nucleation and Stationary States of Electrochemically-Generated Nanobubbles **Prof Valeria Molinero**	**Keynote Speaker** Control Of Mammalian Cell Behavior Using Complex Colloid Crystals **Prof Peter Kingshott**	166: High Pressure Studies Of Gold Nanocrystals **Prof Paul Mulvaney**
12:15				99: Theoretical Investigation Of Ligand Effects On Optical And Mechanical Properties Of Colloidal Ii-vi Nanocrystals **Mr Zifei Chen**
12:30	118: Colloidal Systems In Concentrated Electrolyte Solutions Exhibit Long-range Electrostatic Interactions Due To Underscreening **Prof Vincent Craig**	29: Geometrical Confinement Modulates The Thermoresponse Of A Polymer Brush **A/Prof Stuart Prescott**	8: Dynamics And Behaviour Of Ultra-small Gold Nanoparticles At Bio-membranes – Combining Experiment With Simulation **Dr Aaron Elbourne**	127: Examining The Effects Of Surfactants On The Structural Properties Of A Thermoresponsive Polymer Brush **Dr Andrew Nelson**
12:45	9: Flow Induced Changes In The Forces Between Two Charged Surfaces In Aqueous Surfactant Solutions **Prof Cathy Mcnamee**	229: Macroscale Superlubricity Induced By Polymer Brush Grafted Colloids **Prof Jason Stokes, A/Prof Idriss Blakey**	15: Deep Eutectic Solvents For Cryopreservation **Dr Saffron Bryant**	193: Tribocharging-induced Self-organisation Of Microspheres: Monodisperse Systems And Binary Mixtures **Dr Ignaas Jimidar**
13:00	207: Exploring The Characteristics Of "short-range" Hydrophobic Attraction Between Silanated Silica Surfaces **A/Prof Naoyuki Ishida**	**Lunch Break, Exhibtion & Poster Viewing** **13:00 - 14:00**		
13:15	**Dulux Australia Lunchtime Forum**			
13:30	**Topic: What makes paint a colloid and what is it like working in industry?** **Speaker: Tim Davey, Senior Polymer Science Specialist, Dulux Australia**			
13:45	**Lunch Break, Exhibtion & Poster Viewing**			
	Surface Forces and Hydrophobicity in Particle Interactions	**Interfacial Dynamics and Lubrication**	**Bio-Inspired Systems and Bio-Interfaces**	**Frontiers of Colloid, Interface and Surface Science**
14:00	223: Efficacy Of Saturated High Internal Phase Water In Oil Emulsions In Agglomerating Fine Hydrophobic Particles **Prof Kevin Galvin**	242: Extremely Slow Nanostructure Dynamics At The Ionic Liquid - Solid Interface Revealed By Video-rate Atomic Force Microscopy **Dr Hua Li**	323: Nanoparticles Meet Organized Lipid Assemblies: Challenges And Opportunities For The Biomedical Field **Prof Debora Berti**	155: Compositional-evolution-induced Fluid Dynamics **Prof Huanshu Tan**
14:15	297: Colloidal Dispersions Under Confinement: Simple Or Complex Scaling Laws? **Prof Regine Von Klitzing**	309: Surfactant Adsorbed At The Water/oil Interface **Dr Reinhard Miller**	12: Model Cellular Membranes: From Flat To Strongly Curved Structures **Prof Marite Cardenas**	203: Understanding Phospholipids Self-assembly In Ionic Liquids **Dr Livia Salvati Manni**
14:30	259: Orientation And Interaction Of Janus Particles In Microfluidic Channels **Mr Qaisar Latif**	21: Microgel-reinforced Hydrogel With Ultra-high Lubricity For Oral Therapeutic Application **Dr Olivia Pabois**	71: Sugar Pills – Oral Delivery Of Insulin Using Fatty Capsules **Dr Jamie Strachan**	54: Multi-scale Dynamic Study On The Amphiphilic Nanostructure Of Protic Ionic Liquids **Mr Shurui Miao**
14:45	94: Unexpected High Adhesion Forces Of Ice Owing To Microscopic Capillary Bridges **Dr Ngoc Nguyen**	310: Structures Of Nano-confined Liquids Determined By Synchrotron X-ray Diffraction **A/Prof Masashi Mizukami**	188: Self-assembly And Interactions Of Bacterial Lipids **Prof Wuge Briscoe**	27: Using Low-field Nmr Relaxation To Optimise Particulate Dispersions Of Silica **A/Prof Stuart Prescott**

15:00	307: Electrophoretic Deposition Of Electrostatically Stabilized Globular Proteins **Prof Paul Takhistov**	154: Nanostructure, Electrochemistry And Potential-dependent Lubricity Of The Catanionic Surface-active Ionic Liquid [p6,6,6,14] [aot] **Mr Yunxiao Zhang**	228: External Stimulation Platforms For Targeted Stem Cell Response **Dr Amy Gelmi**	249: Advances In High-resolution Surface And Interface Characterisation Techniques At Australian Synchrotron Infrared Microspectroscopy (irm) Beamline **Dr Jitraporn (Pimm) Vongsvivut**
15:15	124: Challenge To Expand Quartz Crystal Microbalance With Dissipation Application For Particle Adsorption With Combination Of Viscoelastic Model And Gauss - Newton Method **Mr Ippei Furikado**	87: Apparent Slip And Drag Reduction On Lubricant-infused Surfaces: A Numerical Study. **Mr Christopher Vega-Sanchez**	177: Nature Inspired Nanoparticles Probed At The Bio-interfaces: Understanding The Interactions For Novel Nanomedicine **Dr Hao Song**	133: Generalising Specific Ion Effects To Nonaqueous Electrolytes **Mr Kasimir Gregory**
15:30	315: Facet-dependent Surface Charge And Hydration Of Colloidal Nanoparticles At Variable Ph **Mr Shaoqiang Su**	16: Boundary Lubrication With Aqueous Solutions Of A Silicone-based Amphiphilic Block Copolymer **Dr Shinji Yamada**	7: Multi-adjuvanted Amphiphilic Chitosan Nanoparticles As An Efficient Lipopeptide Vaccine Delivery System Against Group A Streptococcus **Dr Fazren Azmi**	202: Protein Adsorption At The Oil-water Interface: Effect Of Protein Self-association **A/Prof Catherine Whitby**
15:45	57: Computer Simulation Study Of Water Adsorption In Tobermorite Micropores: Water Structure, Surface Forces,and Anisotropy Of Pressure **Prof Hans-Jörg Mögel**	213: Hydration Layer Structure Of Biofouling Resistant Nanoparticles **Prof Michael Higgins**	246: Customizing Bacterial Cellulose Paper Via Three-dimensional Print Injections **Dr Jie Song**	138: Surface Nanodroplet-based Nanoextraction And Ultrasensitive Detection **Prof Xuehua Zhang**
16:00	**Tea Break, Exhibtion & Poster Viewing**			
16:30	**Environmental Colloid and Interface Science**	**Interfacial Dynamics and Lubrication**	**Bio-Inspired Systems and Bio-Interfaces**	**Colloid and Interface Science of Viruses**
	234: Understanding Nanoplastic Toxicology Using Neutron Scattering Techniques. **Dr Jitendra Mata**	74: Nanobubbles Explain The Large Slip Observed On Lubricant-infused Surfaces **Prof Chiara Neto**	191: Functionalisation Of Polyester-based Biomaterials: Strengths And Limitations **Prof Lisbeth Grondahl**	291: Sars-cov-2 Spike Protein Removes Lipids From Model Membranes And Interferes With The Capacity Of High-density Lipoprotein To Exchange Lipids **Prof Marité Cardenas**
16:45	88: Magnetic Polyamine-silica Composite Microparticles For Efficient Copper Extraction **Mrs Alexandra Semenova**	267: Spin Coating On A Curved Substrate **Mr Ross Shepherd**	236: Functionalising Surfaces With Engineered Proteins As A Route To Efficient Separation Of Trace Molecules. **Dr Stephen Holt**	167: Cubosome: A Novel Nano-vehicle For Delivery Of Anti-tubercular Agents **Dr Sampa Sarkar**
17:00	219: Effect Of Heavy Metal Ion Adsorption On The Stern Layer Structure At The Silica-water Interface As Revealed By Sfg **Mr Foad Raji**	185: Aqueous Nanofluids Confined Between An Oil Droplet And A Charged Solid Surface **Dr Liam R. J. Scarratt**	109: Investigating Fenton Oxidation Of Membrane Lipids At The Air-water Interface Using Surface Tensiometry And Sum-frequency Generation Spectroscopy **Mr Alexander Fellows**	36: Viral Fusion Peptide Interactions With Biomimetic Lipid Cubic Phases **Dr Leonie Van Hag**
17:15	164: The Effects Of Graphene Oxide On Cable Bacteria From Yarra River Sediments **Ms Michaela Wawryk**	353: What Can We Learn From Measuring The Friction Force Of Drops? **Prof Doris Vollmer**	105: The Location And Orientation Of Antimicrobial Peptides In Model Biological Membranes Determined By Neutron Reflectometry **Dr Anton Le Brun**	200: Biological And Synthetic Colloids For Rapid And Scalable Covid-19 Assays **Dr Simon Corrie**
17:30	239: Application Of Cellulose Membrane-based Of Molecularly Imprinted Mesoporous Silica In The Selective Detection Of Chloramphenicol **Ms Simin Miri**	295: Popping Bubbles: Surface-enhanced Foam Control **Dr Wong William**	139: Perfluorinated Liquid-infused Surfaces For Applications In Anti-thrombogenic Medical Devices **Mr Jun Hong**	338: Spectroelectrochemistry of CdSe nanocrystals **Dr Arun Ashokan**
17:45	107: Fluorescence And Sensor Properties Of Colloidal Europium Based Metal Organic Framework Nanoparticles **Ms Linda Rozenberga**	115: How Can Biopolymers Control Interactions Between Highly Oriented Pyrolytic Graphite And Sub-millimetre Bubbles? **Dr Amir Beheshti**	51: Development Of A New 3d Printed Biomaterial, Diamond Titanium, For Implant Applications **Ms Nour Mani**	75: Natural Membrane Interfaces For Viral Infection Studies **Dr Raya Sorkin**
18:00	165: Perylene-based Lyotropic Self-assemblies For The Synthesis Of Silica And Mesoporous N-doped Carbon Nanomaterials **Mr Adria Perez Calm**	190: A New Pathway For Encapsulation Of ferrofluid Droplets Using Interfacial Layer **Prof Sushanta Mitra**	95: Cytocompatible, Soft And Ultrathin Brush Modified Scaffolds To Mitigate The Wound Infections **Ms Shaifali Dhingra**	262: Assessing Suspension And Infectivity Times Of Virus-loaded Aerosols Involved In Airborne Transmission **Dr Kevin Roger**
18:15	184: Surface Microlenses For Much More Efficient Photodegradation In Water Treatment **Ms Qiuyun Lu**	296: Crumpling Drop Elastometry Reveals Temperature And Brine-dependent Elastic Layers At Crude Oil Interfaces **Dr Amy Zufall Stetten**	42: Surface Composition Of Mrna - Lipid Nanoparticles Determines Extent And Effect Of Protein Binding **Dr Federica Sebastiani**	40: Are Self-assembled Amyloid Fibrils Responsible For The Neurological Symptoms In Covid-19 And Long Covid **Dr Nicholas Reynolds**
19:00 - 23:00	**Conference Dinner** **Level 12 Rooftop, Rydges South Bank**			

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WEDNESDAY 29 JUNE 2022

11:00	**Main plenary** **Meeting Room P10 & 11**			
	Plenary 3			
	New Horizon of Surface Forces Measurement **Prof. Kazue Kurihara** **2022 IACIS Life Time Achievement Award Recipient**			
	Concurrent 1 **Meeting Room P10 & 11**	**Concurrent 2** **Meeting Room P9**	**Concurrent 3** **Meeting Room P8**	**Concurrent 4** **Meeting Room P7**
12:00	**Amphiphilic and Supramolecular Assemblies**	**Hydrocolloids & Polymer Colloids**	**Interfacial Phenomena in Energy Materials**	**Frontiers of Colloid, Interface and Surface Science**
	82: Supramolecular Assembly Of Charge-transfer Complexes On Nanoelectrode Patterns **Prof Guangzhao Mao**	**Keynote Speaker** Nanomedicine: From High Tech to Global Health **Prof Robert Prud'homme**	**Keynote Speaker** 2D or not 2D – that is the perovskite question **Prof Paul Burn**	80: Enhancing The Cellular Uptake Of Fluorescent Carbon Nanodots Via Lipid Cubosomes **Dr Jiali (Maggie) Zhai**
12:15	49: Specific Ion Effects In The Surface Activity And Micellisation Of Pluronic Triblock Copolymers: Single And Mixed Salt Behaviour **Dr Joshua Willott**			39: Study Of Interface Kinetics Of Liquid-liquid Extractions Using X-ray Fluorescence In Microfluidics **Mr Fabien Olivier**
12:30	173: Improving Treatment Efficacy Against Fluconazole Resistant Cryptococcus Neoformans Using Ph Responsive Lipid Nanoparticles **Dr Nhiem Tran**	112: Structured Interfaces Of High Performance Elastomers And Structure Directing Functional Amphiphiles: Experimental And Computational Approaches **Prof Archita Patnaik**	209: Metal Halide Perovskite And Metal Organic Framework Crystal Glass Composites **Dr Jingwei Hou**	92: Effect Of Molecular Distortion On The Optical Properties Of Carotenoid-based Nanoparticles **Dr Ryuju Suzuki**
12:45	286: Modeling Of Dmdohema Extractants Aggregation In Ionic Liquid Media By Molecular Dynamics **Mr Sébastien Le Crom**	64: Identifying The Unique Surface Adsorption And Film-forming Properties Of Collagen-hydrolysate As A Carrier For Surfactants And Biocides **Dr Heather Shewan**	257: Composition And Surface Ligand Engineering For Highly Efficient And Stable Colloidal Perovskite Quantum Dot Solar Cell **Dr Mengmeng Hao**	53: Novel Membranes Fabricated From Colloidal Suspensions Of Charged Nanosheets **Ms Sarah Chevrier**
13:00	**Lunch Break, Exhibtion & Poster Viewing**			
	Amphiphilic and Supramolecular Assemblies	**Hydrocolloids & Polymer Colloids**	**Interfacial Phenomena in Energy Materials**	**Frontiers of Colloid, Interface and Surface Science**
14:00	130: Shining A Light On The Interaction Of Cubosome Nanocarriers With Model And Cell Surfaces **Dr Brendan Dyett**	252: Rheology And Colloidal Properties Of Nanocrystalline Cellulose Aqueous Suspensions **Dr Yuan Xu**	76: Hygroelectricity Cells Produce Electric Current Plus Hydrogen From Water Splitting **Prof Andre Galembeck**	110: Tip Enhanced Vibrational Sum Frequency Generation Microscopy – Sub Diffraction Limit Chemical Imaging With Interface Specificity **Dr Mike Casford**
14:15	34: Peptide Self-assembled Nanostructures As Templates For Bio-metallic Nanomaterials **Dr Durga Dharmadana, Mr Brody Mcdonald**	132: Novel Gel Point Determination Using Rheological Entanglement Approach **Mr Hans Cainglet**	263: Molecular Resolution Nanostructure And Kinetics Of The Deep Eutectic Solvent Stern Layer On Graphite As A Function Of Potential **Mr Justin Freeman**	81: Nanoscale Four Leafed Clovers: Investigation Of Bipyramidal Gold Nanoparticle Plasmonics **Mr Shon Kolomoisky**
14:30	218: Monoolein Liquid Crystals As 'smart' Drug-release Systems: Interactions With The Human Microbiome **Mr Jonathan Caukwell**	22: Interfacial Characteristics Of Pressurized Hot Water-extracted Birch Glucuronoxylan: A Dance Of Lignin And Polysaccharide **Mr Felix Abik**	136: Using Motion To Drive Green(er) Chemistry **Dr Peter Sherrell**	67: Surface Engineering Of Upconverting Nanocrystals Via Visible Light Regulated Polymerization And Its Applications **Miss Tina Joshi**
14:45	91: Controlled Self-assembly Of Carbon Nanodots Driven By Liquid-liquid Phase Separation **Dr Lei Bao**	98: Temperature-jump Spectroscopy Of Pnipam Microgels **Mr Ben Tadgell**	260: Synthesis Of Mesostructured Microporous Tho2 By Colloidal Sol-gel Route **Dr Diane Rebiscoul**	126: The Influence Of Adsorbed Surfactants On The Interfacial Crystallisation Of A Mono- And Di-glyceride Mixture – A Single Interface Study **Mrs Stephanie Macwilliams**
15:00	272: Unraveling The Thermodynamics Properties Of Rare-earth Reverse Micelle Involved In Separation Chemistry: A Multi-scale Approach **Dr Magali Duvail**	156: Polycation Radius Of Gyration In A Polymeric Ionic Liquid (pil): The Pil Melt Is Not A Theta Solvent **Mr Lucas Wong**	**Interfacial Dynamics and Lubrication** 264: 3d Nonlinear Dynamics Of A Thin Liquid Film On A Spinning Ellipsoid **Dr Selin Duruk**	241: Marangoni Effect And Kinetics Of Fast Drop Formation In A Flow-focusing Microfluidic Device **Dr Daniele Vigolo**
15:15	111: From Molecules To Atomium Like Colloidal Superstructures: Building From The Bottom-up With Steroidal Amphiphiles **Prof Luciano Galantini**	38: Thermo-responsive Poly(n-isopropylacrylamide) Grafted From Cellulose Nanofibers Via Silver-promoted Decarboxylative Radical Polymerization **Dr David Mendoza**	192: Nanoscale Interaction Of Water With Organic Interfaces **Dr Tomas Corrales**	69: Experimental Characterisation Of Diffusiophoresis Of Latex In Silica **Miss Clare Rees-Zimmerman**
15:30	280: Composition Profiles And Phase Separation In Ternary Fluids Under Centrifugal Fields **Mr Simon Stemplinger**	194: Small Angle X-ray Scattering Investigation Of Solvent Effect On Globular Proteins **Dr Qi (hank) Han**	273: Ferrofluid Droplet To Spike Reversible Transition Due To An Approaching Permanent Magnet **Mr Sachin Kumar Jain**	28: Reflection Properties Of Large Spherical Colloidal Clusters With Icosahedral Structure **Mr Ryosuke Ohnuki**
15:45	231: Dynamic Transformation Of Polyion Complex Gel Particles For Cosmetics Application **Dr Tatsushi Isojima**	210: Chemical Modification Of Carboxymethyl Cellulose Using Green Diglycidyl Ethers For Sustainable Materials **Mr Craig Stocker**	300: Influence Of Processing On Interfacial Composition And Lubricating Properties Of Oil Droplets In A Fermented Soy Protein Matrix: **Dr Ulrike Van Der Schaaf**	220: Water Dynamics In Packed Particle Beds: Dark Field Neutron Imaging And Nmr Studies Of Spatial And Dynamic Heterogeneity **Dr Christopher Garvey**

16:00	Tea Break, Exhibtion & Poster Viewing			
	Amphiphilic and Supramolecular Assemblies	**Hydrocolloids & Polymer Colloids**	**Interfacial Dynamics and Lubrication**	**Frontiers of Colloid, Interface and Surface Science**
16:30	142: Line Tension And Heterogeneity In Adsorbed Monolayer And Lipid Bilayer **Prof Takanori Takiue**	240: Heat-induced Gelation Of Commercial Pea Protein Isolates **Miss Alice Tiong**	212: Lubrication Of Ph Responsive Polyelectrolytes As A Function Of Macromolecular Composition And Sequencing **Prof Jason Stokes**	314: Hybrid Hydrocarbon/fluorocarbon Nanoparticle Coatings For Environmentally Friendly Omniphobic Surfaces **Dr Shirin Alexander**
16:45	282: Peculiar Behavior Of Eo-containing Carboxylate Surfactant **Prof Thomas Zemb**	225: Rheological Behavior Of High Internal Phase Water-in-oil Emulsions Stabilized By Gelatin–pectin Hybrid Microgels And Their Use In Oral Nutrient Delivery Systems: Protection Effect And In Vitro Digestion Study **Ms Yue Gao**	168: Explaining The Slippery, Liquid-like Behaviour Of Nanothin Grafted Layers **Dr Isaac Gresham**	62: Functional Group Resolved Nuclear Spin Relaxation: A Non-invasive Interfacial Probe In Fluid Saturated Porous Media? **Dr Neil Robinson**
17:00	278: Vesicles As Templates For Microcapsules And Synthesis Of Nanocapsules **Prof Eduardo Guzmán**	294: Designing Vitamin C Fortified W/o/w Double Emulsion For A Healthier Dairy Food Product **Dr Lanny Sapei**	174: Novel Pathway For Detection And Entrapment Of Bacterial Lipopolysaccharides In Aqueous Media **Prof Elena Mileva**	266: Thin Layer Of Organosilane Having Specific Functionality For The Understanding Of Rare Earth Element Extraction **Dr Diane Rebiscoul**
17:15	119: Thermally And Mechanically Tunable Structural Coloration Of Water/surfactant/oil Emulsions **Prof Takeshi Kawai**	181: Cubosomes Immobilized In Hyaluronic Acid Hydrogel For Drug Delivery Purposes **Dr Denise Gradella Villalva**	265: Ion-specific Effect On The Dilational Interfacial Rheology Of Surfactant Adsorbed Layers **Dr Mahshid Firouzi**	247:An Investigation Of The Effect Of Ionic Surfactants On The Air-water Interfacial Structure By Tensiometry, Sfg, And Molecular Dynamics Simulation **Miss Thao Nguyen**
17:30	3: The Chemotherapeutic Drugs Delivery To Cancer Treatment Via Developing Multifunctional Lipid Nanoparticles **Mr Xudong Cai**	58: Formation Of Water-in-water (w/w) Emulsions By Inducing Phase Transitions **Dr Jordi Esquena**	**IACIS Council Meeting**	268: Solvent Extraction As An Application Of Colloidal Science **Prof Jean-François Dufrêche**
17:45	129: The Effect Of Surfactants On The Formulation Of Hydrophobic And Hydrophilic Drugs In Fatty Excipients **Dr Emma Brisson**	298: Conformational Changes Influence The Interfacial And Emulsifying Functionality Of The Charged Hydrocolloid Sugar Beet Pectin **Dr Ulrike Van Der Schaaf**		
18:00	102: Designer Solvents For Protein Stability And Solubility **Mr Stuart Brown**			
18:15				
18:30	Closing Ceremony & General Assembly			