

New Frontiers in Colloid Science

Nicholson Building

Agenda – Thursday 13th

08:30	Registration and refreshments
09:00	Welcome
	Tim Softley, University of Birmingham
	Dwaipayan Chakrabarti , University of Birmingham and Vinothan Manoharan , Harvard University
09:30	Daan Frenkel, University of Cambridge
	Self-assembly and health: the bad news is the good news
10:00	Stefano Sacanna, New York University
	Shape-Reconfigurable Colloids
10:30	Daniela Kraft, Leiden University
	Reconfigurable colloidal structures
11:00	Refreshment break
11:30	David Wales, University of Cambridge
	Exploring Energy Landscapes: New Frontiers for Colloids
12:00	Roy Johnston, University of Birmingham
	Energy Landscapes of Nano-hydrated Anions
12:20	Qian Chen, University of Illinois at Urbana Champaign
	Direct Imaging of Crystallization Kinetics and Interfacial Fluctuations of Nanoparticle Superlattices
12:50	Lunch and Poster viewing session



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14:00	Peter Dowding, Infineum UK Limited
	Challenges involving additive competition in the formulation of lubricant additives
14:30	Zhenyu Jason Zhang, University of Birmingham
	Nanotribology of Soft Matter at Interface
14:50	Eric Robles, Procter and Gamble
	Technical Challenges in Characterising Complex Colloidal Systems in Consumer Goods Industry
15:20	Zhibing Zhang, University of Birmingham
	Understanding the mechanical strength of functional microcapsules, their adhesion on fabric surface and barrier properties for developing consumer products
15:40	Melanie Britton, University of Birmingham
	Using MRI to Understand the Interplay between Structure and Rheology in Colloidal Systems
16:00	Refreshment break
16:30	Paul Luckham, Imperial College London
	The Formation of Reversible Particle - Polymer Gels under Extensional Shear
17:00	Group Discussions
17:45	Close



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Agenda – Friday 14th

08:45	Refreshments
09:00	Mike Cates, University of Cambridge Guided Assembly of Self-Propelled Colloidal Particles
09:30	Wilson Poon , University of Edinburgh Painting with bacteria: Using E. Coli for templated supra-colloidal self- assembly
10:00	Julia Yeomans, University of Oxford Confining active turbulence
10:30	Zorana Zeravcic , ESPCI, Paris Towards Living Matter with Colloidal Particles
11:00	Refreshment break
11:30	Tim Albrecht , Imperial College London Surface effects during translocation of double-stranded DNA in solid-state nanopores
12:00	Jim Tucker, University of Birmingham Functional Photo-active and Redox-active Nucleic Acid Derivatives
12:20	Shuang Zhang, University of Birmingham Metamaterials for topological photonics
12:40	Paramaconi Rodriguez, University of Birmingham Expanding the boundaries of cathodic corrosion: The effective preparation of metal alloy nanoparticles and mixed oxides and their use as active electrocatalyst and photocatalyst



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13:00	Lunch and Poster viewing session
14:00	Dirk Aarts, University of Oxford Directed self-assembly of Janus rods
14:30	Dave Smith , University of Birmingham A computational method for micro- and nano-scale structures in flow
14:50	Daniele Vigolo , University of Birmingham Continuous Isotropic-Nematic Transition in Amyloid Fibril Suspensions Driven by Thermophoresis
15:10	Francisco Fernandez-Trillo , University of Birmingham Peptide Chemistry and Nanotechnology to Synthesise Targeted and Responsive Antimicrobial Particles
15:30	Gi-Ra Yi , Sungkyunkwan University Colloidal Mesoporous Silica Nanoparticles as Strong and Degradable Adhesives for Biological Tissues
16:00	Refreshments, Group discussions, and Closing remarks
17:00	Close