

Soft interfacial materials: from fundamentals to formulation

Monday 12 – Tuesday 13 October 2015 | The Royal Society, London

Organised by Professor Michael Cates FRS, Professor John Seddon, Dr Nicholas Brooks, Dr Paul Clegg and Professor Alex Lips

THE
ROYAL
SOCIETY

DAY 1				DAY 2			
Session 1: Functional amphiphiles and lipids Chair Dominic Tildesley		Session 2: Membranes and delivery Chair Alice Gast		Session 3: Particles and proteins at interfaces Chair Bernard Binks		Session 4: Unconventional emulsions and multiphase gels Chair Jeff Fowler	
09.00	Welcome by Royal Society & lead organiser						
09.05	Laurent Sagalowicz Self assembled structures to increase nutrient efficiency	13.30	Cyrus Safinya Cationic membrane-nucleic acid complexes used in gene delivery and gene silencing	09.00	Kate Stebe Inclusions in soft matter: opportunities for directed assembly	13.30	William Frith Self-assembly of small peptide amphiphiles, the structures formed and their applications
09.30	Discussion	14.00	Discussion	09.30	Discussion	14.00	Discussion
09.45	Gordon Bell Predicting non-ionic surfactant phase diagrams	14.15	Patricia Bassereau Some physics mechanisms behind membrane shaping	09.45	Patrick Spicer Arrested coalescence in microstructured emulsions	14.15	Isabelle Capron Cellulose nano-crystals, rod-like particles for highly stable emulsions
10.15	Discussion	14.45	Discussion	10.15	Discussion	14.45	Discussion
10.30	Coffee	15.00	Tea	10.30	Coffee	15.00	Tea
11.00	Peter Olmsted The physics of stratum corneum lipid bilayer membranes	15.30	Robert Prud'homme Delivery and controlled release from nanoparticles for drug delivery and imaging	11.00	Peter Kralchevsky Soft electrostatic repulsion in particle monolayers at liquid interfaces: surface pressure and effect of aggregation	15.30	Simon Biggs Particles and capsules produced using cross-flow membrane emulsification
11.30	Discussion	16.00	Discussion	11.30	Discussion	16.00	Discussion
11.45	Calum Drummond Model biomimetic lipid membranes based on quaternary lipid-water systems for protein encapsulation	16.15	Poster session	11.45	Cait MacPhee Interfacial stabilisation by bacterial proteins	16.15	Alex Lips and Wilson Poon Summary of discussions and closing remarks
12.15	Discussion			12.15	Discussion		
12.30	LUNCH	18.30	CLOSE	12.30	LUNCH	17.00	CLOSE

Correct as of 04/09/15 – subject to change