

THEO MURPHY INTERNATIONAL SCIENTIFIC MEETING
New frontiers in anisotropic fluid-particle composites

Thursday 28 – Friday 29 June 2012

Organised by Dr Susanne Klein, Professor Peter Raynes FRS and Professor Roy Sambles FRS

DAY 1				DAY 2			
09.30	Welcome by Royal Society & organisers	SESSION 2 Structural studies and modelling		SESSION 3 Colloidal liquid crystals and carbon nanotubes in liquid crystals		SESSION 4 Optical tweezers and liquid crystals	
SESSION 1 Non organic particles in liquid crystals							
09.40	Electrically controlled dynamics of colloidal particles in liquid crystals Professor Oleg Lavrentovich	13.40	X-ray studies of particles in liquid crystals Professor Robert Richardson	09.00	Liquid processing of carbon nanotubes Professor Philippe Poulin	13.00	Liquid crystal phase transitions in suspensions of mineral colloids: new life from old roots Professor Henk Lekkerkerker
10.20	Discussion	14.20	Discussion	09.40	Discussion	13.40	Discussion
10.30	Gold nanoparticles as additives for liquid crystals Professor Torsten Hegmann	14.30	Exploring and applying liquid crystals in new geometries prepared by microfluidics and electrospinning Professor Jan Lagerwall	09.50	Carbon nanotubes in liquid crystals Professor Giusy Scalia	13.50	Pushing, pulling and twisting liquid crystal systems; exploring new directions with laser manipulation Professor Helen Gleeson
11.10	Discussion	15.10	Discussion	10.30	Discussion	14.30	Discussion
11.20	Coffee	15.20	Tea	10.40	Coffee	14.40	Tea
11.50	Strong coupling between ferromagnetic particles and rod-like particles in aqueous suspensions Professor Yuri Reznikov	15.50	Density functional theory for colloidal platelet mixtures Professor Matthias Schmidt	11.10	Liquid crystals in natural clay suspensions Dr Jeroen van Duijneveldt	15.00	Topology and nematic colloids Professor Igor Musevic
12.30	Discussion	16.30	Discussion	11.50	Discussion	15.40	Discussion
12.40	LUNCH	16.40	Poster Session	12.00	LUNCH	15.50	Panel discussion/Overview (future directions)
		17.15	CLOSE			16.15	Close of meeting
		18.15	Pre-dinner drinks				
		18.30	Dinner				