

# THE EDWARDS CENTRE FOR SOFT MATTER

One-Day Mini-Conference Friday 10 January 2020

Chemical Engineering and Biotechnology: LT1 and Atrium



## Programme:

**9.45-10.00: Arrival, Registration, Refreshments, Put up Posters**

**10.00 – 11.40: Talks**

10.00 **Camille Scalliet (DAMTP):** Amorphous solids from the glass transition to 1 Kelvin

10.20 **Matthew Cheetham (CAV):** Watching Nanoparticles Move on Lipid Membranes

10.40 **Reece Oosterbeek (MAT):** Bioresorbable polyester blends for cardiac stents – controlling structure, mechanics, and degradation

11.00 **Rajesh Singh (DAMTP):** Hydrodynamic and phoretic interactions of active particles in Python

11.20 **Mohand Saed (CAV):** Liquid Crystalline Elastomer Vitrimers

**11.40 – 12.20 Keynote Lecture**

**Ludovic Berthier (University of Montpellier):** Rheology of disordered materials

**12.20 – 13.30: Lunch and Posters**

**13.30 – 15.10: Talks**

13.30 **Debasish Das (DAMTP):** Transition to bound states for bacteria swimming near surfaces

13.50 **Fan Feng (CAV):** Non-isometric origami

14.10 **Bingqing Cheng (CHEM):** Ab initio thermodynamics with the help of machine learning

14.30 **Austen Bolitho (DAMTP):** Dances with Volvox: Flow induced bound states in the active 2-body problem

14.50 **Sandy Armstrong (CEB):** Measuring conformation of organic friction modifiers under shear

**15.10-15.50: Keynote Lecture**

**Rafi Blumenfeld (CAV):** Dense Granular Flows

**15.50: Tea, Coffee and Posters**

**16.30: Close of Meeting**