

# Structured Soft and Biological Matter

9<sup>th</sup> June 2015 Durham, UK

**10.30 am** Arrival and tea and coffee

**10.45 am** Welcome

*Opening talk by the Chairman of the Board*

**10.50 am** **Michael Rubinstein**  
Super-soft, super-elastic, super-tough, and self-healing elastomers

*Session 1: Polymer rings (Chair: Tom McLeish)*

**11.25 am** **Dimitris Vlassopoulos**  
Recent problems and open challenges in ring polymer dynamics

**12.00 pm** **Christos Likos**  
Self-organization phenomena in ring polymer solutions

**12.35 pm** Lunch and poster session

*Session 2: Nanostructured soft materials (Chair: Michael Rubinstein)*

**2.05 pm** **Darrin Pochan**  
Exotic nanostructures through polymer or peptide solution assembly

**2.40 pm** **Samuel Safran**  
Nonlinear elasticity of biopolymer gels increase the range of force transmission

**3.15 pm** Coffee break

**3.30 pm** **Paul Janmey**  
Non-linear elasticity and relaxation in polymer networks and soft tissues

**4.05 pm** **Jian Ping Gong**  
Building tough soft materials with sacrificial bonds

**4.40 pm** End