



The Physics of Soft and Biological Matter

6–8 April 2016

Homerton College, Cambridge, UK

Organised by the IOP Biological Physics, Liquids and Complex Fluids, Molecular Physics and Polymer Physics groups

This conference will bring together the broad and diverse community interested in the physics of soft and biological matter, which includes liquid crystals, polymers, colloids, membranes, interfaces, cellular biophysics, and biological macromolecules.

The programme will span a number of key cross-cutting themes, including self-assembly and patterning, rheology, biomimetics, non-equilibrium phenomena, as well as molecular imaging, optical methods and spectroscopies, which are all relevant to the wide range of length- and time-scales present in these fascinating systems. This meeting follows the very successful conference on the same topic in 2014.

Abstracts

Submission of abstracts is now invited for poster and contributed oral presentations. In keeping with the spirit of the conference, sessions will aim to have a multidisciplinary theme.

Abstracts will be accepted on a wide range of topics, spanning a variety of soft matter and biological systems and relating to the cross-cutting themes. Details of abstract submission can be found online at <http://softbio2016.iopconfs.org/>.

Confirmed invited speakers

- **Anna Balazs**, University of Pittsburgh, USA
Designing soft matter capable of sensing, actuation and communication
- **Mike Cates**, University of Cambridge, UK
Guided assembly of active colloidal particles
- **Jochen Guck**, Technische Universität Dresden, Germany
Feeling for function - mechanical phenotyping at 100 cells/sec
- **Lucio Isa**, ETH Zurich, Switzerland
Soft particle monolayers at fluid interfaces: structure, rheology and applications
- **Gijsje Koenderink**, FOM Institute AMOLF, Amsterdam, the Netherlands
A soft matter perspective on the living cell
- **Ron Larson**, University of Michigan, USA
Mesoscale simulations of complex, and living fluids

Registration

Online registration is available at <http://softbio2016.iopconfs.org/>. Please register by 9 March 2016 to take advantage of the early registration fee.

Venue and accommodation

The conference will be held at Homerton College in Cambridge. Accommodation will be available at the college itself and there are several hotels in the vicinity. The college is well placed for access from Cambridge railway station.

Key dates

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| Registration opens: | December 2015 |
| Abstract submission deadline: | 13 January 2016 |
| Early registration deadline: | 9 March 2016 |
| Registration deadline: | 28 March 2016 |

Organising Committee

- **Michael Allen**, University of Warwick and University of Bristol, UK
- **Martin Buzza**, University of Hull, UK
- **Pietro Cicuta**, University of Cambridge, UK
- **Lorna Dougan**, University of Leeds, UK
- **Rhoda Hawkins**, University of Sheffield, UK
- **Neil Hunt**, University of Strathclyde, UK
- **Aline Miller**, University of Manchester, UK

Enquiries

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<http://softbio2016.iopconfs.org/>