

# **March Newsletter**





## **Physics of Life Events**





**NHS** National Institute for Health Research FINAL REMINDER: Merging clinical, biological and physical sciences approaches for cancer research

10 April 2018, BMA House, London

> Register for cancer workshop



Register for Physics of Animal health here FINAL REMINDER: Insights and Impact from the Physics of Animal Health

12-13 April 2018 School of Veterinary Medicine and Science, University of Nottingham, Sutton Bonington Campus.

FREE REGISTRATION

**Biophysics of epigenetic and chromatin dynamics** 







**16-17 April 2018, Higgs Centre for Theoretical Physics, Edinburgh** 

FREE REGISTRATION

**Register for Epigenetics here** 



### 16-17 May 2018, Weetwood Hall, Leeds

**Registration:** 

**Fee:** £40 \* Includes lunches, refreshments and conference dinner.

Deadline: 01 May 2018

Register for multiscale mechanics workshop

NEW: Multi-scale mechanics in biology: Current Challenges and Potential Solutions for Healthcare Applications

Multiscale mechanics of biological systems has emerged as an exciting area of research and provides enormous opportunities for innovative multidisciplinary basic research and technological advancement. This workshop will discuss current experimental and theoretical tools for exploring the mechanical properties of biological soft matter, including proteins, polymers, membranes, fibrous networks, cells and tissues. The possibilities of understanding biological systems which span multiple scales, both spatial and temporal, and the challenges involved in bringing this knowledge together into a single multi scale understanding will also be explored. Finally, example success stories, where knowledge of physics at each length scale has resulted in novel approaches to solving clinical challenges will be given. We aim to bring together physical scientists, biologists, engineers and medical disciplines.

#### Speakers:

Laurent Blanchoin (Grenoble) Gijsje Koenderink (AMOLF) Cornelis Storm (Eindhoven) Robert Ariens (Leeds) Daniel Frankel (Newcastle) Ewa Paluch (UCL/Cambridge) Vasileios Vavourakis (UCL) Ruth Wilcox (Leeds)







### 16-20 July 2018 Grey College, Durham University

#### **Registration:**

**Fee:** £100 (includes accommodation and all meals 16-20 July). £135 (accommodation, including, additional night stay on 15 July and all meals)

**Deadline**: On or before 29 May 2018 (dependent on place availability; places allocated on a first come, first serve basis).

### Member of BBS?

Two <u>BBS</u> bursaries have been made available to help with travel to this event. These are available to help with travel for young <u>BBS members</u> (postgraduate, or first three years postdoc) who are attending this summer school.



## Physics of Life Summer School:

## New Approaches to Biomolecular structure, dynamics and function

This summer school, aimed at UK-based early stage researchers, will present state-ofthe art computational, theoretical and experimental techniques used to explore how biomolecular dynamics depend on molecular structure and connects to and determines biological function. This is a rapidly expanding field which combines many different aspects of biology and physics. Aimed at early-career researchers from either life-science of physical-science background, it will assist in effective working in the interdisciplinary world that connects them.

The summer school will cover a broad range of topics within this theme, including:

- X-ray/synchrotron technologies (<u>Martin</u> <u>Walsh</u> and <u>Ehmke Pohl</u>)
- High resolution microscopies (<u>Rob</u> <u>Pal</u>)
- Multiscale modelling (<u>Gerhard</u> <u>Gompper</u>)
- Protein Dynamics (Sarah Harris)
- Dissecting the structural and mechanistic basis of epigenetic memory (<u>Martin Howard</u>)
- NMR-based technologies (<u>Anastasia</u> <u>Zhuravleva</u>)
- Protein Evolution (Bhavin Khatri)
- Working across disciplines (<u>Tom</u> <u>McLeish</u>, <u>Martin Cann</u>, <u>John Girkin</u>, <u>Olwyn Byron</u>)

### Register for Summer School

Visit Physics of Life Website

