



Cardiac imaging and modelling: Principles, methods and clinical relevance.

Mayneord Phillips Summer School

2–6 July 2012, The Queens College, University of Oxford, UK

What's covered?

The aim of this summer school is to provide an integrative understanding of the structure and function of the human heart and the principles of cardiac imaging and modelling. Suitable for junior researchers and trainees in a range of disciplines, including medical physics, cardiology and computational biology, it offers an informal environment where attendees can discuss their own research, ask questions and exchange ideas with an international faculty of expert clinicians and scientists who are currently practising in these fields. The programme includes background anatomy and physiology of the heart, ventricular mechanics and blood flow, cardiac electrophysiology, electromechanical coupling, coronary flow and myocardial perfusion, as well as the clinical context. It will demonstrate how the combined disciplines of imaging and modelling not only give new insights into whole organ physiology but are also beginning to influence clinical practice. Imaging scientists attending the summer school can expect to gain a better understanding of modelling cardiac electrophysiology and mechanics, while modellers can expect to gain a better understanding of cardiac imaging modalities, including Cardiac MRI, CT, X-ray and ultrasound. The limitations of current approaches and the potential for exciting developments in this interdisciplinary field will be a particular focus.

Ample opportunity for interaction between the faculty and attendees will be provided through open discussion forums and workshops. Attendees will also present their own work (as a project plan or work in progress) in the form of a poster and short presentation. A full programme for the school, together with information on the Mayneord Phillips Trust and previous summer schools can be found at <http://m-pss.org>.

Who should attend?

Trainees, PhD students, post-docs, research assistants and other early-career researchers working in cardiac imaging, computer modelling and related fields.

Registration and further information

Early registration is strongly encouraged as the number of registrants will be limited. The cost for registrations completed by 31st January 2012 is £450, inclusive of accommodation from Sunday night to Friday morning and all meals from breakfast on Monday to lunch on Friday. Also included is a special evening dinner. Late registration will be available until 31st March 2012 at an increased cost of £550. Registrants will be requested to provide a short abstract describing their own research topic. To book a place, register online at www.iop.org/conferences.

A small number of bursaries to cover the school registration costs are available for PhD students from developing countries. Applications in the form of a CV, personal statement and supporting letter from your department should be sent by email to bursary@m-pss.org for consideration by the trustees.

Programme organisers

Richard Clayton (University of Sheffield)
Philip Kilner (Royal Brompton Hospital & Imperial College London)
John Ridgway (Leeds Teaching Hospitals)
Tobias Schaeffter (King's College London)

Enquiries

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The Mayneord Phillips Trust is an organisation which has contracted with the College for the use of facilities, but which has no formal connection with The University of Oxford.

