Second Joint Workshop between the Department of Engineering and the School of Clinical Medicine: Oncology

9.30 – 1.00 Tuesday 30th October
Cancer Research Institute Lecture Theatre, Addenbrooke’s site.

An informal workshop to explore existing and potential future collaborations in oncological research between the Department of Engineering and the School of Clinical Medicine. The workshop will consist of several loosely grouped sessions, with short 7 minute talks followed by time for discussion at the end of each session.

This is a chance for clinicians to present the forefront and limits of their current clinical research and practice, and engineers to show where their clinical related research stands at present and what possibilities there are for the future.

Programme

Introduction
9.30  Bruce Ponder

Imaging
9.35  Eng  Nick Kingsbury  Diffusion tensor MRI visualisation
9.42  Onc  Rajesh Jena  Diffusion tensor MRI imaging
9.49  Eng  Graham Treece  Ultrasound elastography
9.56  Onc  Kevin Brindle  Molecular imaging
10.03  Discussion

Modelling of Biological Structure
10.17  Eng  Alex Kabla  Cell migration in a textured matrix
10.24  Onc  Will English  Modelling tumours
10.31  Eng  Norman Fleck  Microstructure and properties of fat
10.38  Discussion

10.52  Coffee

Radiotherapy
11.12  Onc  Charlotte Coles  Assessment of tissue response to radiotherapy
11.19  Eng  Richard Prager  Radiotherapy planning using 3D ultrasound
11.26  Onc  Neil Burnet  Novel radiotherapy techniques
11.33  Discussion

Systems Biology
11.47  Onc  Carlos Caldas  Functional genomics
11.54  Eng  Jorge Goncalves  Control & probabilistic models of control pathways
12.01  Onc  Paul Pharoah  Genetic susceptibility
12.08  Discussion

Final Comments
12.25  Richard Prager

12.30  Free lunch