

NanoMicroClub Networking Event

Biomedical Applications in Nanotechnology

Thursday 26th May 2011
10.00-16.00
University of Glasgow

Organised by: The Institute of Nanotechnology
University of Glasgow Knowledge Transfer Account

One of the reasons that nanotechnology is such an important growth area for medicine and the lifesciences is that biological systems are themselves built up from nanoscale components and subunits. An increasing knowledge of how these biological structures and processes work and interact provides us with an ever greater insight into the pathology of disease, and the ability to consistently engineer solutions at the nanoscale offers opportunities for much earlier and accurate diagnoses and tailored, targeted treatments that are less invasive and more effective for the patient.

This workshop will provide an overview of some of the latest developments in applying nanotechnology to a range of important medical and lifescience applications including biosensing, clinical diagnostics, medical imaging, regenerative medicine and drug delivery. In addition, the workshop will examine the often novel risks that may be presented by such nanoscale solutions, and the measures being taken to understand and address them. The workshop will also provide an opportunity to explore and discuss the various challenges and opportunities raised with experts from a range of backgrounds including those who have successfully commercialised nanotechnology applications, investors, researchers and new start-up businesses.

Interaction between participants will be encouraged and attendees will have the opportunity to discuss and debate the aspects of nanotechnology of particular concern to them and to forge useful new collaborations.

The University of Glasgow, who will host the workshop, is recognised as one of the leading UK and European institutions for academic nanoresearch encompassing biological sciences, medicine, electronics, chemistry, and physics in a highly interdisciplinary and dynamic environment.

**Please RSVP to confirm your attendance at this workshop by
contacting: Carrie Smith
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Programme

- 10.00 Registration and refreshments
- 10.30 **Del Stark**, NanoMicroclub Facilitator, Institute of Nanotechnology
Welcome
- 10.35 **Steve Beaumont**, VP for Research and Enterprise, University of Glasgow
Introduction
- 10.40 Soundbites/ Delegate Presentations
- 11.00 **Professor Jon Cooper**, University of Glasgow
Lab on a Chip as an enabling Technology for Bio-Nanotechnology
- 11.20 Refreshments
- 11.40 **Dr David Eustace**, Renishaw Diagnostics Ltd
New Methods for Infectious Disease Diagnosis
- 12.00 **Ray Harrison**, Point-2-Point Genomics
- 12.20 **Stuart MacLachlan**, Materials KTN
Nanotechnology in Europe: a Materials KTN Perspective
- 12.40 **Neil Bowering**, University of Glasgow
Knowledge Transfer Account, Nanotechnology
- 12.50 Lunch and Networking
- 14.00 **Dr Robert Marchmont and Robert Stokes**, NanoInk
- 14.20 **Nikolaj Gadegaard**, University of Glasgow
Injection Moulded Nanostructures for Medical Applications
- 14.40 **Vicki Stone**, Heriot Watt University
Nanomaterial-Biological Interactions: Relating Physicochemical Characteristics to Toxicity
- 15.00 **Steve Hankin**, Institute of Occupational Medicine
- 15.20 **Dr Steven Neale**, University of Glasgow
Optoelectronic Tweezers for Nanotechnology and Cell Biology
- 15.40 **Richard Moore**, Institute of Nanotechnology
- 16.00 **Del Stark**, Institute of Nanotechnology
Feedback and closing remarks