

**Workshop programme:
"Measurement Needs and Opportunities in Nanobiotechnology"**

Venue: Bushy House, National Physical Laboratory, Teddington, UK
Date: 13-14 April 2010

Tuesday 13 April:

Opening session

13.00-13.30 Welcome and Introduction
Professor John Pethica, Chief Scientist, NPL
Dr Theresa Burke, Co-ordinator of Co-Nanomet

Session 1: Bioanalytics, diagnostics and biosensing

Chair: Dr Debdulal Roy, NPL

13.30-14.15 Keynote: Professor Fredrik Höök, Chalmers University of Technology, Sweden
Lipid based biosensing

14.15-14.40 Professor Ciara O'Sullivan, Universitat Rovira i Virgili, Spain
Microsystems for nucleic acid analysis

14.40-15.05 Dr Dag Ilver, The Institute for Microelectronics in Gothenburg, Sweden
Magnetic biodetection

15.05-15.30 COFFEE

15.30-15.55 Dr Paul Wilson, Argento Diagnostics, United Kingdom
Nanoparticles for biodiagnostics

Session 2: Bioimaging

Chair: Dr Jukka Lausmaa, SP

16.00-16.45 Keynote: Dr Christian Eggeling, Max Plank Institute for Biophysical Chemistry, Germany
Fluorescence microscopy and super-resolution optical techniques

16.45-17.10 Dr Alex Winkel JPK Instruments, United Kingdom
SPM techniques

17.10-17.35 Dr Felix Kollmer, IONTOF GmbH, Germany
Imaging mass spectrometry

17.35-18.00 Dr Jens Greiser, FEI Electron Optics BV, Holland,
Electron Microscopy in Life Science – What do we measure?

18.00-19.00 Drinks and snacks

19.00 Transport to DINNER

19.30 Dinner with entertainment

Wednesday 14 April:

Session 3: Nanomedicine

Chair: TBC

09.00-09.45 Keynote: Dr Mike Eaton, ETP Nanomedicine
Nanomedicines

09.45-10.10 Dr Anders Palmquist, University of Gothenburg, Sweden
FIB-TEM of implant-tissue interfaces

10.10-10.35 Dr Nikolaj Gadegaard, Centre for Cell Engineering, University of Glasgow, UK
Cells and nanostructures

10.35-11.00 COFFEE

11.00-11.25 Dr Richard Moore, Institute of Nanotechnology, United Kingdom
Some key drivers for metrology in nanomedicine

11.30-12.30 Discussion session

12.30-13.30 LUNCH and end of workshop