



Italian Embassy
London

Imaging and life sciences applications of new light sources



An Italy-UK workshop

26 March 2010

The Italian Cultural Institute
39 Belgrave Square
London SW1X 8NX



Consiglio Nazionale delle Ricerche

Aim of the workshop is to discuss the possible biological and biomedical uses of the new light sources that are under construction or being considered for construction in Italy, in the UK and in Europe. A selected arena of interested national and international users will be introduced to the potential of new light sources with respect to novel experimentations in the life sciences field, also as a means of advising institutional investors and facilities managers on the relevance of an appropriate support to these developments. This workshop follows a similar event held in March 2009 at the British Embassy in Rome, originated from the fruitful collaboration between Italian and British Universities

The workshop is organized by the Italian Embassy in London in cooperation with CNR and INFN in Italy, and with the STFC and Diamond Light Source in the United Kingdom. It is promoted by the SPARX Project (under construction at the University campus of Roma "Tor Vergata"), by the British New Light Source project and by the ESRF, and is sponsored by the Italian Ministry of Research and by the Lazio Region.

Preliminary programme

9:00 *Registration and refreshments*

9:30 **Welcome Address**

The Italian Ambassador to the UK

Introductory Remarks

Jon Marangos, Imperial College

10:00 **Keynote Address**

Gerhard Materlik, Diamond Light Source

Visions for future light source science

10:25 **Fulvio Parmigiani (Univ. Trieste. Italy)**

Exploring the Science Frontiers with the FERMI@Elettra Free Electron Laser

10:50 **Richard Walker (Diamond)**

The design of New Light Source

11:15 *Coffee break*



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- 11:35 Silvia Morante (University of Roma Tor Vergata)**
SPARCX-FEL Project: the Bio-Science case
- 12:00 David Klug (Imperial College)**
2D FIR measurements of proteins using high power multi-colour THz beams
- 12:25 Anton Barty (DESY)**
Title tbd
- 12:50 Lunch**
- 14:10 Cristina Messa (Univ. Milano Bicocca and IBFM-CNR)**
Diagnostic molecular imaging: a research tool ready for clinical application
- 14:35 Ralf Menk (ELETTRA)**
New R&D imaging technique available for cancer research
- 15:00 Andrea Cavalleri (Oxford University)**
CFEL - Imaging and time resolved measurements
- 15:25 Guido Cavaletti (Università di Milano Bicocca)**
Nanomedicine in Biomedical Science
- 15:50 Round Table and discussion session**
- 16:30 Close**