

Chemical Science Research at the UK New Light Source

8th September 2009 Lovell Seminar Room
Alan Turing Building, **The University of Manchester**

The proposed New Light Source (NLS) Facility is based on advanced conventional and free electron lasers, with unique and world leading capabilities. Central to the proposal is a femtosecond soft X-ray (1-5 keV) capability. This will allow us to conduct unique studies of the microscopic motions that occur within matter of all kinds. The exceptional brightness and coherence of the light will permit other unprecedented research that will have the potential for revolutionary advances in science and technology.

This roadshow meeting will focus on the applications of the NLS to Chemical Science research and will feature a presentation by Dr Christian Bressler from European XFEL, Hamburg on his recent work using femtosecond X-ray pulses to probe ultrafast photochemical processes in the solution phase.

- 12.00 - 13.00** Arrive and sandwich lunch
- 13.00 - 13.45** Jon Marangos (Imperial College), **Introduction to the NLS**
- 13.45 - 14.30** Wendy Flavell (University of Manchester) and Jonathan Underwood (University College London), **Chemical Science Research Opportunities at the NLS**
- 14.30 - 15.00** Coffee
- 15.00 - 15.45** Christian Bressler (European XFEL, Hamburg), **Molecular structural dynamics probed by ultrafast X-ray absorption spectroscopy**
- 15.45 - 16.30** Discussion session; participants are invited to contribute; bring a few slides if you wish
- 16.30** Meeting Close



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For more information and to register visit: www.newlightsource.org/seminar