



Forthcoming Meeting

EC³

Thames Valley Specialised Section

Electronics, Control Computing & Communications

Diamond Light Source Technical Systems and Beam Orbit Stabilisation

Mark Heron



diamond

Diamond Light Source Ltd

Thursday 27th March 2008 at 19:30

**Oxford Brookes University,
Headington Campus, Oxford**

Light refreshments available from 19:00-19:30

In January 2007 Diamond synchrotron light source began operating. It produces an ultra bright source of synchrotron light, from which predominantly the x-ray portion of the spectrum is used for research. The light is produced by accelerating electrons at an energy of 3GeV in a 561m circumference Storage Ring. Around the outer periphery of the Storage Ring are located the photon beamlines and experiment stations.

An introduction to the Diamond project and some of the science, to be carried out on Diamond will be given. An overview of the technical systems used to accelerate and contain the electrons will also be presented. The technical design and realisation of the Beam Orbit Feedback System will be described in more detail, including the controller structure, the communication systems, and the feedback computation.

If you want to know more, come along. All are welcome and no ticket is required. Simply turn up on the night. For more details please contact Dr Richard Mitchell at rjmitchell@theiet.org, or 0118 378 6790

Directions Enter Oxford Brookes from Gypsy Lane. The lecture will be sign-posted from the entrance hall. See <http://www.brookes.ac.uk/about/findus>