

Institute *of* **Physics**

LONDON AND SOUTH EASTERN BRANCH REMS SECTION

**Visit to Rutherford Appleton Laboratory, Chilton, Oxfordshire, OX11 0QX
ISIS Neutron and Muon Source, Wednesday 26th January 2005**

This visit has been organised by John Lunn

ISIS is the world's most powerful-pulsed neutron and muon source, used to study the atomic structure of materials.

ISIS supports an international community of around 1600 scientists who use neutrons and muons for research in physics, chemistry, materials science, geology, engineering and biology.

The neutrons are produced by bombarding a heavy metal target with pulses of highly energetic protons from a powerful accelerator.

Muons are produced by collisions between energetic protons and the atomic nuclei of a light element.

Neutrinos are also available as a diagnostic tool from the ISIS facility.

The extent of materials research provided by ISIS is very significant. The visit will provide more insight into the research programmes being supported.

Due to the pressure of experimental work being carried out the final timetable for our visit is not yet available. Numbers are restricted to 15 members and attendees will be provided with a location map and programme details / logistics nearer the time.

NOTE THIS VISIT IS ON A WEDNESDAY.