

PhD studentship in Chemistry

‘Sub-Blocking Temperature Structures of Single Molecule Magnets’

University of Glasgow

Department of Chemistry and WestCHEM Research School

Applications are invited for an Glasgow University/STFC funded PhD studentship under the supervision of Dr Mark Murrie (co-supervisors Prof. Simon Parsons, School of Chemistry, The University of Edinburgh and Dr Richard Ibberson, ISIS, Rutherford Appleton Laboratory) working in the Department of Chemistry at the University of Glasgow starting in October 2008.

At temperatures of a few Kelvin (the blocking temperature) single-molecule magnets have fascinating magnetic properties, including slow relaxation of the magnetisation and quantum tunneling. The interpretation of magnetic data is based on X-ray crystal structures determined at 100-300 K, and there are no structural data available for any single molecule magnet below its blocking temperature. The aim of this project is to address the gap in our knowledge and determine what structural effects occur in single molecule magnets at temperatures around 2 K, by using single crystal and powder neutron diffraction.

Informal enquiries can be made to:

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Eligibility: applications can only be considered from EU candidates. A good first degree in Chemistry, Physics *or a related subject* is required.

Closing date: **30 September 2008**