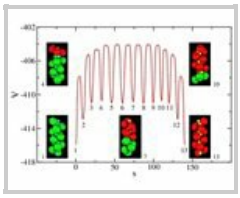
Dr Dwaipayan Chakrabarti joins the School of Chemistry as a Birmingham Fellow

Posted on Wednesday 3rd July 2013



Dwaipayan moves from the Department of Chemistry at the University Cambridge, where he held an Earnest Oppenheimer Early Career Research Fellowship (2008-11), following a Marie Curie Incoming International Fellowship (2006-08). During his time at Cambridge he worked in the field of computational modelling of colloidal systems, collaborating with the group of Prof. David Wales. He obtained a PhD from the Indian Institute of Science, Bangalore in 2006, having studied slow dynamics in soft matter systems employing coarse-grained models in computer simulations. Following a brief stint in the Indian Institute of Technology (IIT) Delhi as an Assistant Professor (2011-12), he returned to Cambridge en route to a Birmingham Fellowship at the University of Birmingham. Exploring and exploiting chiral superstructures has been a focal point of his post-doctoral research, which has also contributed to the development of a comprehensive computational framework for surveying the underlying potential energy surface of a molecular system.

The focus of his current research is on developing computational methods for designing novel structures via self- or directed-assembly. With a broader perspective, he is interested in understanding physical principles of self-assembly in a wide spectrum of condensed matter, especially soft matter, in order to exploit them in the context of materials science.