

RUDI BALLING GOODBYE LECTURE SERIES



Prof. David Leigh

Lecture title: "Making the tiniest machines"

Abstract: Perhaps the best way to appreciate the technological potential of controlled molecular-level motion is to recognise that molecular machines lie at the heart of every biological process. Nature has not repeatedly chosen this solution for achieving complex task performance without good reason. In stark contrast to biology, none of mankind's myriad of present day technologies exploit controlled molecular-level motion in any way at all: every catalyst, every material, every pharmaceutical, all function through their static or equilibrium dynamic properties. When we learn how to build artificial structures that can exploit molecular level motion, and interface their effects directly with other molecules and the outside world, it will potentially impact on every aspect of functional molecule and materials design. An improved understanding of physics and biology will surely follow.



23 September
16.00 – 17.20
on Webex