

PHYSICS COLLOQUIUM

Thursday, October 1, 2009
3:50 PM, Room 111, Life Sciences

*“The Hartree Centre: An International Centre for
Computational Science and Engineering”*

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Computational Science and Engineering is now indispensable to the solution of complex problems in every sector, from traditional science and engineering domains to such key areas as national security, public health and economic innovation. Many areas of research in the future will only be accessible through advanced computational technology. We present a new world-leading centre for computational science and high performance computing in the UK, to be known as the Hartree Centre, located at STFC's Daresbury Science and Innovation Campus. The Hartree Centre will bring together a critical mass of academic, industrial and public sector researchers to address grand challenge problems of economic and societal importance and support a step change in STFC's knowledge exchange and economic impact activities. The Centre will build on the capabilities of STFC's Computational Science and Engineering Department (CSED), and will maximise synergies and added-value activities with developments at the other proposed STFC Science & Technology Gateway Centres.

The Computational Science & Engineering Department (<http://www.cse.clrc.ac.uk/>) led from STFC's Daresbury Laboratory is a UK focus for Computational Science and Engineering, ensuring that researchers benefit from the best computational methods, and supporting them through research and collaboration, theory and software development, facilities and training. We also partner in operating and supporting the UK's national flagship HPC resources: HECToR a 170 Tflop/s Cray XT4 (<http://www.hector.ac.uk/>) and HPCx, a smaller IBM POWER5 system (<http://www.hpcx.ac.uk/>).