

# CompSci07

**Computational Science 2007: Interdisciplinary Challenges and Perspectives, from the Grid to e-Science**

25 - 26 June 2007 at the Royal Society, London. There is no registration fee for attending this conference.

## Speakers

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Prof Peter Coveney	University College London	<i>Computational Science in the Twenty-First Century</i>	<a href="#">Abstract</a>	PPT
Prof Mike Cates	University of Edinburgh	<i>Simulating Complex Fluids, Both Living and Dead</i>	<a href="#">Abstract</a>	PPT
Prof James Annett	Bristol University and CSE, CCLRC Daresbury	<i>From quantum mechanics to computational atomistic materials design: e-Science challenges and opportunities from the CCP9 and Psi_k networks</i>	<a href="#">Abstract</a>	PPT
Prof Wolfgang Emmerich	University College London	<i>Managing scientific workflows with BPEL</i>	<a href="#">Abstract</a>	PPT
Dr. Charles Laughton	University of Nottingham	<i>Challenges and Opportunities for the Development of Biomolecular Simulation</i>	<a href="#">Abstract</a>	PPT
Mr. W. T. Hewitt	Manchester Computing	<i>Overview of the NW-GRID Project - Progress to Date and Plans</i>	<a href="#">Abstract</a>	PPT
Prof Sam Falle	University of Leeds	<i>Some Computational Problems in Astrophysical MHD</i>	<a href="#">Abstract</a>	PPT
Dr Steve Kenny	Loughborough University	<i>Ab-initio modelling of surfaces</i>	<a href="#">Abstract</a>	PPT
Prof R. S. Kalawsky	Loughborough University	<i>Improving User Interaction in Grid based Computational Environments</i>	<a href="#">Abstract</a>	PPT
Prof. Bruce Boghosian	Tufts University	<i>Grid-Based Domain Decomposition for the Simulation of Hydrodynamic Turbulence</i>	<a href="#">Abstract</a>	PPT
Dr. Jonathan Chin	Morgan Stanley	<i>High Performance Computing for Interest Rate Derivatives Trading</i>	<a href="#">Abstract</a>	PPT
Prof. John Gurd	University of Manchester	<i>Adaptive performance control of coupled scientific models executing in a distributed environment</i>	<a href="#">Abstract</a>	PPT
Prof. Xavier Gonze	Louvain-la-Neuve, Belgium	<i>Modern software engineering techniques applied to the simulation of materials and nanosystems : the ABINIT project.</i>	<a href="#">Abstract</a>	PPT
Dr. Stewart Cant	University of Cambridge	<i>Computational Fluid Dynamics: an Engineering Perspective</i>	<a href="#">Abstract</a>	PPT
Dr. Maziar Nekovee	University College London and BT Research	<i>Large-scale simulations for WiFi-based wireless telecommunication networks</i>	<a href="#">Abstract</a>	PPT
Dr. Stephen Pickles	University of Manchester	<i>The National Grid Service and Computational Science</i>	<a href="#">Abstract</a>	PPT
Dr. Shantenu Jha	Louisiana State University	<i>Simple API for Grid Applications: Towards a Standardized Application Level Interface for Grids</i>	<a href="#">Abstract</a>	PPT
Dr. Helen Wright	University of Hull	<i>Steering and Visualization: Enabling Technologies for Computational Science</i>	<a href="#">Abstract</a>	PPT
Prof. Andrew J. Willmott	Director, Proudman Oceanographic Laboratory	<i>Recent developments in coupled coastal and shelf sea modeling</i>	<a href="#">Abstract</a>	PPT
Dr. John Brooke	University of Manchester	<i>Enabling Scientific Collaboration in Computational Science</i>	<a href="#">Abstract</a>	PPT
Mr. Charlie Catlett	University of Chicago and Argonne National Laboratory	<i>TeraGrid: Analysis of Use and Impact on Science</i>	<a href="#">Abstract</a>	PPT
Dr. P. A. Couch	CCLRC Daresbury	<i>The AgentX Framework: automating the exchange of information between scientific applications</i>	<a href="#">Abstract</a>	PPT

	Laboratory			
Prof Ernest Laue	University of Cambridge	<i>Software development using a model driven architecture: the CCPN project</i>	Abstract	PPT
Dr Peter Stow	Rolls Royce	<i>The Role of High Performance Computing in CFD within Rolls Royce</i>	Abstract	PPT
Dr N. A. Walton	University of Cambridge	<i>Optimising the Data - Information - Knowledge Transformation: solutions for astronomy and their wider relevance</i>	Abstract	PPT
David Gavaghan	University of Oxford	<i>Computational Science: Implications for Education and Training</i>	Abstract	PPT
Dr Thomas Schulthess	Oak Ridge National Lab, USA	<i>Software Interoperability in Computational Nano- and Materials Science</i>	Abstract	PPT
Prof. Julia Slings	Director for Climate, NCAS-Climate, Department of Meteorology, University of Reading	<i>The importance of resolution and multi-scale interactions in climate system modelling: Current developments and future perspectives</i>	Abstract	PPT
Prof. Malcolm Atkinson	Director of NeSC	<i>Software Services for Science from Science: the emergence of software as a facility</i>	Abstract	PPT

