4th European SCAT Workshop

May 27-31 / 2008

"Computational Science and Engineering:
a truly interdisciplinary field "

Inviting institution

University of
BRISTOL

www.bristol.ac.uk

Department *of* Mathematics

www.maths.bris.ac.uk

Venue

uni*lit*

www.unilit.co.uk

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Programme of Activities

Tuesday May 27th

10h00-10h30	Dr Lorena Barba	U. of Bristol - UK	Welcome and Introduction to the Alfa Programme and SCAT Project
10h30-11h10	*Coffee Break*		
11h10-11h50	Dr Oscar Orellana,	USM - Math	On the backward heat equation with Neumann type of boundary conditions.
11h50-12h30	Dr Agnes Maurel,	ESPCI - Paris	TDB
12h30-14h00	*Lunch on the premises*		
14h00-14h30	Dr Luis Delacruz,	UNAM Visiting Daresbury	MQ-RBF meshless method for solving CFD problems using an Object-Oriented approach
14h30-15h00	Mr Eduardo Sufán	USM - Mech	Numerical Solution for Heat Transfer and Fluid Flow problems
15h00-15h30	Mr Christopher Cooper	USM – Mech	Panel-free boundary conditions for viscous vortex method
15h30-16h00	*Coffee Break*		
16h00-16h30	Mr Simon Layton	UOB – Math	Implementation and Numerical Experimentation of Fast Algorithms for Particle Methods with Gaussians

Wednesday May 28th

10h00-10h40	Dr Richard Sessions	UOB - Biochemistry	BUDE, a new molecular docking program accelerated with ClearSpeed Advance co-processors
10h40-11h10	*Coffee Break*		
11h10-11h50	Mr Felipe Cruz	USM – Valparaiso	Fast Multipole Method for particle interactions: an open source parallel library component
11h50-12h30	Prof Chris Allen	UOB - Aer	Parallel Aerodynamic Simulation and Optimisation Tools
12h30-14h00	*Lunch on the premises*		
14h00-14h40	Dr Steve Simpson	UOB – Phys	Simulations of Near Field Optical Systems
14h40-15h20	Dr Luis Salinas	USM – CompSci.	TBD
15h20-15h50	*Coffee Break*		
15h50-16h10	Dr Daniel Lunt	UOB – Geog	On climate modelling
16h10-16h30	Dr Cristina Sanz	UOB - Chem	TBD
16h30-16h50	Dr Joni Mujika	UOB - Chem	High Performance Computing: an essential tool in biomolecular science
16h50-17h10	Mr Richard Lonsdale	UOB - Chem	Modelling drug metabolism enzymes

Thursday May 29th

10h00-10h40	Dr Ian Stewart	UOB	TBD
10h40-11h10	*Coffee Break*		
11h10-12h30	BlueCrystal : Visit to the HPC facility of the UOB		
12h30-13h30	*Lunch in town*		
14h00-17h30	Ferry Boat Visit to Bristol Blue Glass Factory **(RSVP to lucy.innes@bristol.ac.uk by Tues, 27th May)**		

Friday May 30th

10h00-10h40	Dr Susana Gomez	UNAM- Mexico	Towards cleaning oil-pollutant spots from the open sea
10h40-11h10	*Coffee Break*		
11h10-11h50	Prof Jorge Zubelli	IMPA - Rio	Numerical Analysis of Inverse Problems for Structured Populations
11h50-12h30	Dr David Emerson	Daresbury Lab.	TBD
12h30-14h00	*Lunch in town*		
14h00-14h40	Dr Eduardo Luna-Ortiz	Imperial College, UK	'On-line' model reduction of stiff transient process models for 'off-line' (dynamic and steady-state) optimization
14h40-15h20	Dr Lydie Staron	IJLRDA – Paris VI	Modelling Granular Media
15h20-15h50	*Coffee Break*		
15h50-16h30	Dr Lorena Barba	SCAT - HPC	SCAT Budget: HPC time contribution towards possible investments

20h00   **Dinner at the Bridge Café (RSVP to lucy.innes@bristol.ac.uk by Tues 27th May)**

Saturday May 31st

10h30-11h20	Dr Lorena Barba	ALFA - EU	The future of LA cooperation
11h20 -12h00	Mr Boris Drappier	SCAT budget	State of the play of the project's finances

13h00-15h00   **Lunch at The Square Club gardens (Berkeley Square)**
RSVP to lucy.innes@bristol.ac.uk by Tues 27th May

Closure of the Meeting