EPSRC Summer School

Mathematical Modelling and Computational Methods in Solid Mechanics

26th August – 1st September 2007

University *of* Glasgow

The challenge in computational mechanics is to develop a solution that is *accurate*, *numerically robust*, *stable* and can be solved in a *computationally efficient* manner.

This course will provide training in mathematical modelling and computational methods in solid mechanics:

- ✓ Error estimates & adaptivity
- ✓ Nonlinear solution schemes
- ✓ Meshfree methods
- ✓ Equation solvers for FEA

- ✓ Nonlinear elastic deformation theory
- ✓ Multi-scale modelling
- ✓ Biomechanics
- ✓ Computational plasticity & fracture

Speakers include: Prof. R Ogden, Prof. H Askes, Prof. G Holzapfel, Prof. M Geers, Prof. N Bićanić, Dr. A Ramage, Dr. XY Luo, Dr. C Pearce, Dr. P Grassl, Dr. S Bordas and Dr. Z Guo

Participants will develop
- ✓ A deeper knowledge of nonlinear computational solid mechanics
- ✓ Confidence in the associated mathematical formulations.

The fee structure is given below. These sums cover accommodation, food, social events and all lecture material. Attendees need only find funds to travel to Glasgow.

UK-based PhD students:	£100	Please Note:
Non UK-based PhD students:	£250	Subsidised places are limited.
UK-based researchers:	£250	Preference will be given to
Others:	£600	EPSRC students

Places are limited and so those interested should register early.

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