



## Atomistic Models of Solids Joint workshop 7-8 December 2009

### OxMOS New Frontiers in the Mathematics of Solids & UK Network “Mathematical Challenges in Molecular Dynamics”

Organisers: J.M. Ball (Oxford), S.J. Chapman (Oxford), Weinan E (Princeton),  
G. Friesecke (Munich and Warwick), E. Süli (Oxford), J. Zimmer (Bath)

This joint OxMOS/MD-Network workshop focuses on atomistic models of solids and mathematical aspects of MD in the field of solid mechanics. Specific topics for the workshop include:

- quasi-continuum methods;
- variational approaches;
- mechanics and applications; and
- statistical physics, micro-macro heat transfer.

#### *Invited speakers:*

**A. Braides** (Rome II)  
**T. Bodineau** (ENS, Paris)  
**M. Dobson** (Minneapolis)  
**L. Dupuy** (CEA, Saclay)

**R. Elliott** (Minneapolis)  
**R. Kotecky** (Warwick)  
**P. Ming** (Chinese Academy of Sciences, Beijing)  
**C. Mora-Corral** (BCAM, Bilbao)

**S. Olla** (CEREMADE, Paris-Dauphine)  
**B. Schmidt** (TU, Munich)  
**L. Truskinovsky** (École Polytechnique, Palaiseau)  
**M. Zhou** (Georgia Tech, Atlanta)

#### **Where and when:**

The workshop will take place on 7-8 December 2009 at the Mathematical Institute, University of Oxford, 24-29 St. Giles, Oxford.  
Registration with coffee will be at 9:45-10:15 am.

#### **How to register and get more information:**

You can register online on our website at [www.maths.ox.ac.uk/oxmos](http://www.maths.ox.ac.uk/oxmos) or by email ([oxmos@maths.ox.ac.uk](mailto:oxmos@maths.ox.ac.uk)). Limited funding is available to cover expenses. Applications will be treated on a case by case basis. Students and researchers at the beginning of their careers are particularly encouraged to apply.