

Atomistic and Multi-Scale Models of Materials

The University of Warwick
15–18 September 2014

Confirmed Speakers

Timothy Blass Carnegie Mellon University

Andrea Braides Roma Tor Vergata

Ken Elder Oakland University

Tom Hudson Oxford University

Hosni Idrissi University of Antwerp

Michael Ortiz Caltech

Marcello Ponsiglione La Sapienza, Università di Roma

Arnd Scheel University of Minnesota

Lev Truskinovsky École Polytechnique, Paris

Benedikt Wirth University of Muenster

The topic of the workshop is the interplay between microscopic material models and the corresponding macroscopic continuum theories. The development of methods which couple multiple length and time scales is one of the key challenges of the 21st century and requires significant mathematical input. The workshop will cover recent developments in dislocation theory, phase field crystals, coarse-grained simulation methods and stochastic modelling.



Funds are available to support a limited number of early-career participants. Applications submitted by April 15, 2014 will receive preference.

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