



Conference on Hysteresis, Avalanches and Interfaces in Solid Phase Transformations

Lecture Room L3, Andrew Wiles Building, Oxford

Monday 19 September

10.30am	Registration with refreshments
10.50am	Opening Remarks
11.00am	Eckhard Quandt (Kiel University) Ultra-low fatigue of elastocaloric NiTiCu-based thin films
Midday	Eduard Vives (University of Barcelona) Distribution of domain sizes in martensitic microstructures: a simple geometrical model with kinematic constraints
1.00pm	Lunch (Common Room)
2.30pm	Konstantinos Koumatos (Gran Sasso Science Institute) On the morphology of lath martensite in steels via energy minimisation
3.30pm	Refreshments (Common Room)
4.00pm	Kirsten Martens (University Joseph Fourier Grenoble 1) Driving rate dependence of avalanche statistics and shapes in athermally driven yield stress materials
5.00pm	Poster Presentations
5.30pm	Poster Reception (Common Room)





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Tuesday 20 September

9.30am	Giovanni Zanzotto (University of Padova) Strain intermittency in shape-memory alloys
10.30am	Refreshments (Common Room)
11.00am	Xian Chen (Hong Kong University of Science and Technology) Study of the compatibility conditions for low-hysteresis materials
Midday	Pierluigi Cesana (Kyushu University, Australia branch) New models for the space-time evolution of martensitic microstructure
1.00pm	Lunch (Common Room)
2.30pm	Karin A Dahmen (University of Illinois) Universal slip statistics: From compressed nanocrystals to earthquakes
3.30pm	Refreshments (Common Room)
4.00pm	Richard D James (University of Minnesota) Puzzles and open questions on hysteresis and the reversibility of phase transformations
7.00pm	Conference Dinner (Green Templeton College)





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Wednesday 21 September

9.00am	Hanuš Seiner (Academy of Sciences of the Czech Republic) Interfaces and pattern formation in ω -transitions
10.00am	Refreshments (Common Room)
10.30am	Aaron Stebner (Colorado School of Mines) Studying the micromechanics of martensitic phase transformations using high energy diffraction microscopy
11.30am	Tomonari Inamura (Tokoyo Institute of Technology) Formation process of incompatible martensite microstructure in shape memory alloy
12.30pm	Lunch (Common Room)
1.30pm	Angkana Rüland (University of Oxford) On the Emergence of Surface Energies in a Microscopic, Two-Dimensional Two-Well Problem
2.30pm	Antoni Planes (University of Barcelona) Avalanche criticality in externally driven materials
3.30pm	Concluding Remarks



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