

# Non-Equilibrium Dynamics of Large-Scale Complex Systems

An inter-disciplinary Summer School on Complex Systems

Ambleside, The English Lake District  
August 30—September 8, 2008

*The school will focus on how to understand dynamical effects in and the evolution of complex systems. Examples include organisation and regulation of chemical processes in cells, evolution of technologies and complex social structures and evolution of climate. Topics of study begin with the foundations of: adaptive systems, networks, dynamical systems and fractals, and computational modelling. Advanced research topics include: modelling complexity in social systems, neural systems, biological systems and climate-change.*

## About the School:

The summer school will take place in at St. Martin's College in Ambleside, situated in the English lake district, in a beautiful location by Lake Windermere. The course is residential - the students, organisers and lecturers will live at the college during the nine days of the course. The course consists of lectures on foundation topics, lectures on research topics by international researchers, and group project work.

## Who should apply:

Young researchers: PhD students in mathematical sciences who want to learn how their quantitative skills could be applied to complex problems; PhD students starting research in complex problems (e.g. In biology, social science or computation) who need introductions to quantitative methods they may use; postdocs and industrial researchers.

## To apply:

Send a brief CV, statement of research interests highlighting why complex systems is important to your work, and a letter of reference from a senior researcher familiar with your work by email or post to:  
CSSS, Kilburn Building, Oxford Road, Manchester M13 9PL  
Email: [csss\\_applications@cs.manchester.ac.uk](mailto:csss_applications@cs.manchester.ac.uk)  
Enquiries: [csss@cs.manchester.ac.uk](mailto:csss@cs.manchester.ac.uk)

**Deadline for applications: May 8, 2008**

See [http://www.cs.manchester.ac.uk/events/summer\\_school](http://www.cs.manchester.ac.uk/events/summer_school) for further information

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