



*Isaac Newton Institute for Mathematical Sciences*  
and  
*Knowledge Transfer Network for Industrial Mathematics*

**Open for Business:  
Turbulence in Fluids  
Monday 17 November 2008**

to be held at the Isaac Newton Institute, 20 Clarkson Road, Cambridge

Supported by the Higher Education Innovation Fund (HEIF4) of the University of Cambridge

3.30 pm Tea and Coffee available

4.00 pm *Welcome and Introduction*

Prof Sir David Wallace (Director, Isaac Newton Institute)

Dr Robert Leese (Director, KTN for Industrial Mathematics)

4.05 pm Prof Katepalli Sreenivasan (Director, International Center for Theoretical Physics, Italy)  
will give an overview talk on turbulence in fluids, its pervasive nature, control and use.

4.50pm Talks by other panellists

Lord Julian Hunt (Professor of Climate Modelling, Dept of Space and Climate Physics, UCL)

Dr Tony Hutton (Airbus; and Centre for Fluid Mechanics Simulation, CFMS Ltd)

Dr Tim Palmer (Head of Predictability and Seasonal Forecast Division, European Centre for  
Medium-Range Weather Forecasts, ECMWF)

Dr Tony Purnell (Technical Consultant, FIA)

5.40 pm Panel Discussion (Chair: Prof Sir David Wallace)

6.30 pm Reception

7.15 pm Dinner at Churchill College

9.00 pm Close



**The Isaac Newton Institute for Mathematical Sciences** is an internationally leading visitor research institute and the UK's national institute for the mathematical sciences, based at the University of Cambridge. It hosts research programmes on selected themes, with applications over a very wide range of areas in science and technology, and attracts research leaders from around the world to interact over an extended period in pursuit of common goals. In selecting its programmes, the Institute places a very strong emphasis on scientific quality and on identifying areas at the forefront of current development, where the Institute's involvement is most likely to lead to major breakthroughs with long-lasting impact. In doing so, it often brings together researchers with very different backgrounds and expertise. Over the last 16 years since it was founded in 1992 the Institute has hosted a total of 79 research programmes, with over 1000 visitors every year from academia, industry and commerce.

**The Knowledge Transfer Network for Industrial Mathematics (KTN)** brings together business, academia and government to boost innovation performance in the UK through the improved use of mathematics. It is managed by the Smith Institute for Industrial Mathematics and System Engineering, the UK's leading intermediate organisation in this area. Its vision is for companies to look increasingly towards mathematics as a key component in their innovation planning, and a powerful means for addressing challenges in design, operations, services and strategy. The KTN is a programme of the Government's Technology Strategy Board, and currently networks the activities of over 150 companies and 30 universities, providing them with a vehicle for developing new capability and exchanging knowledge and experience.

This *Open for Business* meeting on 'Turbulence in Fluids' represents a new collaboration between the Isaac Newton Institute and the Knowledge Transfer Network. It will provide opportunity, at senior level, for cross-fertilisation between the business-facing activities of the KTN and the research focus of the INI. The day has been structured to enable the formation of new relationships on the business-academic interface and to assist in identifying the common challenges that have greatest potential for research, knowledge transfer and commercial impact.