

# Fluid Dynamics of Sustainability and the Environment Summer School



Department of Applied Mathematics  
and Theoretical Physics



Laboratoire d'Hydrodynamique  
et Laboratoire de Météorologie



Venue: Centre for Mathematical Sciences, Cambridge, UK

**9 – 21 September 2012**

The summer school is designed for PhD students and those in early stages of their research career. The residential school, held over two weeks, will consist of

### Lecture courses

Six pedagogical courses covering the fluid dynamics relevant to sustainability and the environment

### Laboratory experiments

Project-based investigations of fluid flows

### Guest lectures

State of the art on advanced topics

### Computational projects

Numerical simulations of fluid flows

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### Lecture courses

Fundamentals of fluid mechanics  
Fluid dynamics of the environment  
Circulation and climate  
Instabilities and transfers  
Energy, the environment and sustainability  
Biological fluid dynamics

### Lecturers

Colm-cille Caulfield	Caroline Muller
Jean-Marc Chomaz	Jerome Neufeld
Stuart Dalziel	Riwal Plougonven
Ray Goldstein	John Taylor
Lutz Lesshafft	Andy Woods
Paul Linden	Grae Worster
John Lister	Vladimir Zeitlin

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### Applications

To apply please send a cv, a brief statement of interest (at most one page) and two academic references to Ms Doris Allen ([pavhsec@damtp.cam.ac.uk](mailto:pavhsec@damtp.cam.ac.uk)) from whom further information can be obtained.

**Closing date March 16, 2012.** Successful applicants will be informed by April 20, 2012.

### Housing and fee

Full board and lodging will be provided at [Churchill College](#), which is adjacent to CMS. The cost for the school and lodging is £2000. Bursaries may be available and should be requested with the application.