



**9<sup>th</sup> International Workshop on the  
Physics of Compressible  
Turbulent Mixing  
Cambridge, UK  
19-23 July 2004**

[www.damtp.cam.ac.uk/iwpctm9/](http://www.damtp.cam.ac.uk/iwpctm9/)

**Second Announcement and Call for Papers**

***Theme***

This workshop focuses on fundamental aspects of turbulent mixing in flows subject to destabilising acceleration in both compressible **and** incompressible fluids. Specific topics include (but are not limited to):

- ◇ Rayleigh-Taylor instability
- ◇ Richtmyer-Meshkov instability
- ◇ Mixing layers
- ◇ Coherent structures
- ◇ Experimental, numerical and theoretical studies
- ◇ Novel numerical and experimental techniques
- ◇ Direct numerical simulation, large-eddy simulation and turbulence models
- ◇ Relating 2D and 3D models and flows
- ◇ Applications

***Call for papers***

Papers are invited, in English, for both oral and poster presentations during the Workshop.

**Deadline for abstracts**

Decision on whether or not a paper is accepted for the workshop will be made on the basis of a single page abstract which should be submitted before 16 January 2004.

**Abstract format**

Abstracts are limited to a single page of size 150×220 at 11 point. Abstracts should be prepared using either Word or LaTeX using the templates available from the conference web site ([Word](#), [LaTeX](#)). Please adhere to the requested style and length limit. More complete details are available in [html](#) and [pdf](#) formats on the conference web site. While the organisers will take all reasonable care in processing the abstracts, they cannot be held responsible for any problems that may arise in reproducing the abstracts.

**Submission of abstracts**

Abstracts should be submitted by e-mail to [s.dalziel@damtp.cam.ac.uk](mailto:s.dalziel@damtp.cam.ac.uk), with “IWPCTM9 Abstract - oral” or “IWPCTM9 Abstract - poster” in the subject line. Abstracts should adhere to the format outlined below and may be submitted either as plain text within the body of the e-mail, or as an attached file. Where figures are

included, the author must also submit a .pdf copy of the abstract, and all necessary files (source, figures and .pdf) should be combined into a single .zip file. The names of any attached files should begin with the name of the lead author.

### **Acceptance**

Authors will be notified as to whether their abstract(s) is(are) accepted in February 2004. Accepted abstracts will be posted on the conference web site and a book of abstracts will be provided to all participants at the start of the conference.

### **Proceedings**

The organisers intend to produce proceedings for the Workshop in either CD-Rom or DVD-Rom format. All authors presenting papers (oral and poster) at the Workshop will be invited to submit material for inclusion in the proceedings. Such submissions will be based on papers formatted as .pdf files, but may optionally include other material (*e.g.* mpeg movies) in industry standard formats. The deadline for submission of these contributions will be in September 2004, and further instructions to authors will be provided in due course.

### **Programme**

Scientific sessions will run from Monday morning until lunchtime Friday. The oral presentations will be given in a tiered lecture theatre, equipped with all the necessary projection equipment, and posters will be displayed in two adjoining rooms to allow viewing during the breaks, as well as in dedicated poster sessions. The use of laptops is encouraged, and a PC with CD drive will also be available.

Time will be allotted within the programme for discussion sessions, and the atmospheric college bar will be open in the evenings for informal discussions.

We hope to keep Wednesday afternoon free so that you may explore Cambridge, London or other nearby attractions.

### **Venue**

#### **Centre for Mathematical Sciences**

Oral and poster presentations will be given in the Centre for Mathematical Sciences (CMS; [www.cms.cam.ac.uk](http://www.cms.cam.ac.uk)), University of Cambridge, UK. This £65M development, completed at the end of 2002, is the new home for the Department of Applied Mathematics and Theoretical Physics (DAMTP; [www.damtp.cam.ac.uk](http://www.damtp.cam.ac.uk)) and its sister department the Department of Pure Mathematics and Mathematical Statistics. CMS is located alongside the Isaac Newton Institute for Mathematical Sciences, and only a short walk to the west of the centre of the historical university city of Cambridge ([www.cam.ac.uk](http://www.cam.ac.uk); [www.cambridge.gov.uk/leisure/TICWEB/tourism.htm](http://www.cambridge.gov.uk/leisure/TICWEB/tourism.htm)).

#### **Clare College**

Accommodation and meals for around 120 participants will be provided in Clare College ([www.clare.cam.ac.uk](http://www.clare.cam.ac.uk)). Founded in 1326, Clare College is the second oldest of the 31 colleges in Cambridge, and is located on the picturesque 'backs' alongside the River Cam. (Cambridge also offers a range of hotels and other accommodation, should you wish to organise your own.) The conference organisers will accept bookings from March 2004 onwards.

## ***Registration***

Registration will open in March 2004. It is requested that you book accommodation at the same time.

The registration fee and cost of accommodation/meals are not yet finalised. Preliminary figures suggest the conference fee, including a reception on the Sunday, lunches and the conference dinner, is likely to be in the region of £350 per person, with a reduction for students. Part of this fee will contribute towards the costs of bringing some of our Russian colleagues to Cambridge. A late fee will be payable for those registering after the end of May 2004. Accommodation for five nights in Clare College should cost in the region of £350 per person, including breakfast and evening meals.

## ***Important Dates***

16 January 2004	Abstract deadline
February 2004	Acceptance of abstracts
1 March 2004	Registration and accommodation booking opens
31 May 2004	Payment deadline
18 July 2004	Welcome reception
19-23 July 2004	Presentations
September 2004	Deadline for material to be included in proceedings
October 2004	Publication of proceedings on CD-ROM

## ***Sponsorship***

AWE plc (<http://www.awe.co.uk/> )

Commissariat à l'Énergie Atomique/DAM Ile de France (<http://www.cea.fr/> )

## ***Invited Speakers***

To be arranged.

## ***Contacts***

Stuart Dalziel  
Department of Applied Mathematics and Theoretical Physics  
Centre for Mathematical Sciences  
University of Cambridge  
Wilberforce Road  
Cambridge CB3 0WA  
UK

E-mail: [s.dalziel@damtp.cam.ac.uk](mailto:s.dalziel@damtp.cam.ac.uk)

Phone: +44 (1223) 337911

Fax: +44 (1223) 765900

For further information, please visit the workshop web page at [www.damtp.cam.ac.uk/iwpctm9/](http://www.damtp.cam.ac.uk/iwpctm9/)

To register your interest in receiving future announcements, please e-mail [s.dalziel@damp.cam.ac.uk](mailto:s.dalziel@damp.cam.ac.uk) and include IWPCTM9 in the subject line.

### ***Local Organizing Committee:***

S. Dalziel (University of Cambridge)  
D. Leppinen (University of Cambridge)  
R. Williams (AWE)  
D. Youngs (AWE)

### ***International Scientific Committee:***

G. Ben-Dor (Ben-Gurion University of the Negev, Beer-Sheeva)  
D. Besnard (CEA)  
T. Clark (LANL)  
S. Dalziel (University of Cambridge)  
G. Dimonte (LANL)  
S. Gauthier (CEA)  
J. Glimm (Stony Brook)  
B. Goodwin (LLNL)  
J-F Haas (CEA)  
N. Hoffman (LANL)  
L. Houas (IUSTI)  
J. Jacobs (University of Arizona)  
Yu. Kucherenko (Russian Federal Nuclear Center-VNIITF)  
M. Legrand (CEA)  
D. Meiron (Caltech)  
E. Meshkov (Russian Federal Nuclear Center-VNIIEF)  
V. Neuvazhaev (Russian Federal Nuclear Center-VNIITF)  
T. Peyser (LLNL)  
J. Redondo (Universitat Politecnica de Catalunya, Barcelona)  
V. Rozanov (Lebedev Physical Institute, Moscow)  
O. Schilling (LLNL)  
D. Sharp (LANL)  
D. Shvarts (Nuclear Research Center, Beer-Sheeva)  
E. Son (Moscow Physical and Technical Institute)  
H. Takabe (University of Osaka)  
K. Takayama (Tohoku University, Sendai)  
D. Youngs (AWE)  
S. Zaytsev (ENIN, Moscow)

### ***Previous workshops in series***

Princeton, NJ, USA (1988)  
Pleasanton, CA, USA (1989)  
Royaumont, France (1991)  
Cambridge, UK (1993)  
Stony Brook, NY, USA (1995)  
Marseille, France (1997)  
St. Petersburg, Russia (1999)  
Pasadena, CA, USA (2001)