

The Burgers Program

2015 Summer Research School on Fluid Dynamics: Topics in Turbulence

Program

Official Program and Additional Information (as of 2:58pm EST 5/29/2015)

Scientific Background

The turbulent motion of liquids and gases is a ubiquitous phenomenon in nature and engineering. Such fluid motion is fundamental to the formation of planets from interstellar clouds of particulates, to the dynamics of the Earth's atmosphere and oceans that determine weather systems, to the mixing of reactants in combustion, to the dispersion of pollutants from smokestacks and storm sewers, and to the health risks caused by diseased arteries, to name but a few examples.

Understanding and modeling the physics of turbulent motion is the basis of predicting its effects in these and numerous other examples and the basis for controlling it in engineering applications such as the design of air and surface vehicles, efficient engines for propulsion, heat exchangers and stents and heart valves.

Dates and Location

The Summer Research School on Turbulence will be held on the College Park campus of the University of Maryland in the Arnold E. Seigel Learning Center (Room 2121 J.M. Patterson Building) from June 1 to June 5, 2015.

Instructors

Elias Balaras - *George Washington University*
 Peter Bernard - *University of Maryland*
 Marcelo Chamecki - *Pennsylvania State University*
 Kenneth Kiger - *University of Maryland*
 John Kim - *UCLA*
 Charles Meneveau - *Johns Hopkins University*
 Katepalli Sreenivasan - *New York University*
 James Wallace - *University of Maryland*
 Tamer Zaki - *Johns Hopkins University*

Organizing Committee

Christopher Jarzynski - *University of Maryland*
 Johan Larsson - *University of Maryland*
 James Wallace (Chair) - *University of Maryland*
 Tamer Zaki - *Johns Hopkins University*

Apply

Application can be made at: <http://burgers.umd.edu/registration/>.
 For more information, contact James Wallace at wallace@umd.edu.

A limited number of openings are available. Full consideration will be given to advanced graduate students and post-docs who have had an introductory graduate-level course in turbulence and who apply before the deadline of **March 1, 2015**. Funds available to participants from outside metro Washington, D.C. for travel and accommodations.



Institute for Physical Science and Technology
 4115 Computer and Space Sciences (bldg #224)
 University of Maryland, College Park, MD 20742-2431
 Phone: (301) 405-4814 | FAX: (301) 314-9363

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