



May 24 - 27, 2005
University of Maryland, College Park Campus

.. Thank you everyone for a very successful conference !

Full papers due September 1, 2005 [CLICK HERE](#)

Special issue of *Parallel Computing*: ten papers will be selected from the submissions and the authors invited to expand their papers for publication in a special issue of the journal *Parallel Computing* ([link](#))

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CONFERENCE OBJECTIVES

Parallel CFD 2005 is the 17th in the series of international meetings focusing on parallel computation and fluid dynamics research. It will be held May 24-27, 2005 on the College Park campus of the University of Maryland, minutes from Washington DC, USA.

The conference returns to the USA, after four years abroad (Canary Islands, 2003; Moscow, 2002; Egmond aan Zee, 2001; Trondheim, 2000), where it was last held in 1999 in Williamsburg.

Over the span of these seventeen years parallel computers have fulfilled their promise of becoming the dominant form of large-scale computing and indeed, with the advent of cluster computing, infiltrated small laboratories and even desktops . . . [more](#)

CONFERENCE TOPICS INCLUDE CFD RELATED:

Terascale computing
 Mechanical and Aerospace Engineering
 Industrial and Environmental Engineering
 Medical and Biological Applications
 Atmospheric and Ocean Modeling
 Combustion
 Turbulence
 Acoustics
 Plasma Dynamics, including Laser Plasmas
 Lattice Boltzmann Methods
 Design Optimization
 Grid/Network Computing
 Parallel Algorithms
 Multi-scale and Multi-physics
 Adaptive Mesh Refinement
 Parallel Compiler and Software Development
 Software Frameworks
 Visualization

Parallel CFD 2005 Proceedings will be published by Elsevier/North-Holland. Past conference proceedings available through Barnes and Noble.

INVITED SPEAKERS

Chris Allen, University of Bristol, UK -- *Parallel Simulation of Lifting Rotor Wakes*
John Bell, Lawrence Berkeley National Laboratory, USA -- *Parallel Adaptive Low Mach Number Simulation of Turbulent Combustion*
Alan Gara, IBM, USA -- *The BlueGene/L Supercomputer Architecture with a Look to the Future*
Roland Glowinski, University of Houston, USA -- *Domain Embedding Methods for Particulate Flow*
William Henshaw, Lawrence Livermore National Laboratory, USA -- *Solving the Compressible and Incompressible Navier-Stokes Equations on Moving and Adaptive Overlapping Grids*
Stephen Jardin, Princeton Plasma Physics Laboratory, USA -- *Finite Element Calculations of the Magnetohydrodynamics of Magnetic Fusion Devices and Magnetic Reconnection*
Steven Orszag, Yale University, USA -- *Some Small Ideas on the Large Turbulence Problem*
Gerhard Wellein, Erlangen-Nürnberg University, Germany -- *Architecture and Performance of Terascale Computers*

LOCAL ORGANIZING COMMITTEE

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