

## Scientific Computing

- Publications
- Center for Biomedical Computing
- Projects
- Available Master's topics
- Intranet
- People

## CBC Workshop on Dispersion, Transport and Effects - November 3-4, 2009

This workshop concerned simulation of flows with small droplets or solid particles (aerosols), a topic of great relevance to, e.g., drug inhalation, spreading of the swine flu, bioterror attacks, and effects of pollution. The first day, at Simula, featured technical in-depth talks on mathematical modeling, numerical methods, and discussion of results from case studies. The second day, at FFI, contained presentations of the main results to the advisory committee for this project. The advisory committee has members from the Norwegian Armed Forces, the Norwegian Ministry of Defense, Ullevål University Hospital, CBC, University of Oslo, Norwegian University of Science and Technology, and the University of Cyprus.

### DAY 1

Total number of participants: 21  
 Total number of guests outside of CBC: 12  
 Number of different nationalities represented: 6  
 Total number of speakers: 7  
 Total number of talks: 7

### Aerosols: Dispersion, Transport and Effects

The workshop will be held in Bakrommet or Storstua (depending on the number of participants). The talks marked with an asterisk (\*) is suitable for a large audience.

#### Schedule November 3

0900 – 0910 Welcome and introduction by Mortensen  
 0910 – 1010 Computational turbulence \* by Reif

1010 – 1030 Coffee

1030 – 1130 Simulating turbulent flows with LES: an introduction \* by Grigoriadis  
 1130 – 1200 Variational multiscale LES by Gjesdal

1200 – 1300 Lunch

1300 – 1330 Postprocessing of marginally resolved spectral element data by Wasberg  
 1330 – 1400 Extracting large scale features of turbulent shear flows using proper orthogonal decomposition by Tutkun

1400 – 1415 Coffee

1415 – 1500 Particle deposition in the lungs: effect of flow rate and particle size Radhakrishnan



### DAY 2

Total number of participants: 17  
 Total number of guests outside of CBC: 12  
 Number of different nationalities represented: 5  
 Total number of speakers: 7  
 Total number of talks: 6

#### November 4th

The second day, at FFI, contained presentations of the main results to the advisory committee for this project. The advisory committee has members from the Norwegian Armed Forces, the Norwegian Ministry of Defense, Ullevål University Hospital, CBC, University of Oslo, Norwegian University of Science and Technology, and the University of Cyprus.

<b>What</b>	▪ Workshop
<b>When</b>	Nov 03, 2009 09:00 AM to Nov 04, 2009 03:00 PM
<b>Where</b>	Bakrommet
<b>Contact Name</b>	Mikael Mortensen
<b>Attendees</b>	Dimos Georgiadis Thor Gjesdal John Grue Hans Petter Lantangen Mats Larson Anders Logg Kent-Andre Mardal Andre Massing Hari Radhakrishnan Anders Reif Marie E. Rognes Murat Tutkun

	Kristian Valen-Sendstad Carl-Erik Wasberg Aron Wahlberg Emma Wingstedt Mikael Mortensen 3 students
<b>Add event to calendar</b>	 vCal  iCal