

## Scientific Computing

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## CBC Workshop on Aerosols: Dispersion, Transport and Effects - November 10, 2010

The purpose of this workshop is to discuss computational approaches to various biomedical flows: blood flow in the vicinity of aneurysms, flow and aerosol transport in the human airways, and flow of cerebrospinal fluid in the spinal canal and the spine. Software and numerical methods for computing such flows will be addressed. The most recent results from the collaboration between Simula and FFI will be presented.

Total number of participants: 14  
 Total number of guests outside of CBC: 0  
 Number of different nationalities represented: 4  
 Total number of speakers: 4  
 Total number of talks: 5

### Agenda

0900 – 0915 Welcome and introduction (Mortensen)  
 0915– 1015 Turbulent particle transport in the human lung (Radhakrishnan)

1015 – 1030 Coffee



1030 – 1130 Presence of Turbulence in intracranial MCA aneurysms (Valen-Sendstad)

1130 – 1300 Lunch

1300 – 1400 Cerebrospinal Fluid (CSF) - Oscillating Flow and Pressure (Støverud)

1400 – 1415 Coffee

1415 – 1445 The G2 Navier Stokes solver – on why it failed the benchmark test (Mortensen)  
 1445 – 1515 Introduction to turbulence modeling with FEniCS (CBC.RANS) (Mortensen)

<b>What</b>	▪ Workshop
<b>When</b>	Nov 10, 2010 from 09:00 AM to 03:30 PM
<b>Where</b>	Bakrommet @ Simula
<b>Contact Name</b>	Mikael Mortensen
<b>Attendees</b>	Anders Helgeland André Massing Anna Blechingberg Benjamin Kehlet Bjørn Anders Reif Emma Wingstedt Hans Petter Langtangen Hari Radhakrishnan Karen Støverud Kent-Andre Mardal Kristian Valen-Sendstad Kristoffer Selim Mikael Mortensen Omar al-Khayat
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