

# Cardiac Modeling

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## CBC Workshop on Biomechanics, 17-18 November 2011

This workshop gathers researchers from Biocomp, CaMo and our collaborators in the Biomechanics group at NTNU. The presentations will cover a wide range of biomechanics modeling, including computational cardiac electro-mechanics, cerebral haemodynamics, fluid-structure interaction and related topics.

Total number of participants: 14  
 Total number of guests outside of CBC: 0  
 Number of different nationalities represented: 5  
 Total number of speakers: 1  
 Total number of talks: 1


### Thursday 17 November


- 10.30-11.00 Molly Maleckar – The Centre for Cardiological Innovation; an introduction
- 11.00-11.30 Joakim Sundnes – Computational tools for modeling cardiac electro-mechanics
- 11.30-12.00 Sam Wall – Modeling the infarct-injured heart
- 12.00-13.00 *Lunch*
- 13.00-13.30 Leif Rune Hellevik - Reduced order models for computational hemodynamics
- 14.00-14.30 Sigrid Kaarstad Dahl - From medical imaging to heart CFD simulations
- 14.30-15.00 Victorien Prot - Recent developments in mitral valve and passive myocardium modeling
- 15.00-15.30 *Coffe break*
- 15.30-16.00 Kristian Valen-Sendstad - Computational Cerebral Hemodynamics
- 16.00-16.30 Anders Logg – Adaptive finite element methods for fluid-structure interaction and incompressible flow
- 16.30-17.00 Marie Rognes - Automated goal-oriented error control
- 17.00-17.30 Bernardo Lino de Oliveira - Effects of Mechanical Deformation on Simulated Electrograms of the Human Left Ventricle

### Friday 18 November

- 09.00-11.30 Open session; discussion of potential collaborations, more details on selected topics etc.

- 11.30-12.30 *Lunch*

<b>What</b>	▪ Workshop
<b>When</b>	Nov 17, 2011 10:30 AM to Nov 18, 2011 12:30 PM
<b>Where</b>	Simula
<b>Contact Name</b>	Joakim Sundnes
<b>Attendees</b>	Anders E. Johansen Bernardo L. de Oliveira Bjørn Skallerud Harish Narayan Hans Petter Langtangen Joakim Sundnes Kristian Valen-Sendstad Leif Rune Hellevik Marie Rognes Martin Alnes Molly Maleckar Sam Wall Sigrid K. Dahl Victorien Prot
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