

## Scientific Computing

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## CBC Workshop on Modeling Active and Passive Cardiac Mechanics - October 21, 2009



This workshop presented the current status and challenges in modeling tissue with active and passive stress, followed by discussions on the direction of future work and a closer collaboration with the Biomechanics Division at NTNU and the researchers working on active stress in the heart tissue and stochastic uncertainty qualification at Simula. The discussion concluded with three specific problems for further collaboration between NTNU and Simula researchers.

Total number of participants: 7  
 Total number of guests outside of CBC: 1  
 Number of different nationalities represented: 3  
 Total number of speakers: 5  
 Total number of talks: 4

### Tentative Schedule

10:30 *Finite element analysis of the mitral valve closure with active muscle fibers* by Victorien Prot and Bjørn Skallerud  
 11:15 *Tissue fiber families in the mitral valve: constitutive modeling, numerical analysis and potential clinical applications* by Bjørn Skallerud  
 12:00 Lunch  
 12:45 *Uncertainty analysis of the mechanics of the heart* by Harald Osnes  
 13:30 *Computer models of ventricular electro-mechanics* by Sam Wall/Joakim Sundnes

Discussions

<b>What</b>	▪ Workshop
<b>When</b>	Oct 21, 2009 from 10:30 AM to 04:00 PM
<b>Where</b>	Storstua
<b>Contact Name</b>	Hans Petter Langtangen
<b>Attendees</b>	Hans Petter Langtangen Harish Narayanan Harald Osnes Victorien Prot Bjørn Skallerud Joakim Sundnes Sam Wall
<b>Add event to calendar</b>	 vCal  iCal