

# Scientific Computing

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## CBC Workshop on Scientific Computing Software - September 17, 2014

On 17th of September CBC will host a joint workshop with Uppsala on Scientific Computing Software, where young researchers will have an opportunity to share ongoing projects and investigate the possibility of joint projects.

Total number of participants: 23  
 Total number of guests outside of CBC: 9  
 Number of different nationalities represented: 8  
 Total number of speakers: 15  
 Total number of talks: 15

### Oslo-Uppsala Workshop on Scientific Computing Software

Simula Research Laboratory, Oslo

September 17, 2014

09:30-09:45: Introduction. Hans Petter Langtangen and Sverker Holmgren

09:45-10:05: Malin Källén (Using Object-Oriented Methodology in a High-Dimensional PDE solver)

10:05-10:25: Magnus Grandin (Parallel algorithms for adaptive structured grid PDE solvers)

10:25-10:45: Gabriel Balaban (Cardiac Mechanics Model Calibration using Reduced Order Unscented Kalman Filtering)

10:45-11:00: Break with coffee

11:00-11:20: August Johansson (A 3D Hybrid Nitsche and Level Set Method for Electrohydrodynamic Potential Flows in Moving Domains)

11:20-11:40: Emanuel Rubensson (The Chunks and Tasks programming model)

11:40-12:00: Martin S. Alnæs (High-level abstractions for solving PDEs/FeniCS)

12:00-12:20: Simon Funke (dolphin-adjoint)

12:20-13:00: Lunch at IT Fornebu

13:00-13:20: Mohammed Sourouri (Effective Multi-GPU Communication Using Multiple CUDA Streams and Threads)

13:20-13:40: Karl Ljungkvist (A Finite-Element Method for Modern Processors)

13:40-14:00: Jing Liu (GPUs for analysis of data from X-ray experiments: The way to the on-site reconstruction.)

14:00-14:20: Johannes Langguth (Hybrid CPU-GPU computations on unstructured 3D tetrahedral meshes)

14:20-14:50: Break with coffee and cake

14:50-15:10: Elisabeth Larsson (Resource-aware scheduling in task parallel frameworks)

15:10-15:30: Afshin Zafari (Task-based programming on distributed memory computers)

15:30-15:50: Øyvind Evju, (cbcpst and cbcflow)

15:50-16:10: Benjamin Kehlet (mshr)

16:10-16:30: Spare slot, or summary of the day

18:30: Dinner at Escalon Tjuvholmen ([www.escalon.no/oslo/](http://www.escalon.no/oslo/)) in central Oslo

<b>What</b>	
<b>When</b>	Sep 17, 2014 from 09:30 AM to 04:30 PM
<b>Where</b>	Storstua @ Simula
<b>Contact Name</b>	Martin Alnæs
<b>Attendees</b>	Afshin Zafari Anastasia Kruchinia August Johansson Benjamin Kehlet Elisabeth Larsson Emanuel Rubensson Gabriel Balaban Hans Petter Langtangen Jing Liu Johannes Langguth Johannes Ring Karl Ljungkvist Kristian Valen-Sendstad Magnus Grandin

	Malin Källén Marie Rognes Martin Alnæs Mohammed Sourouri Øyvind Evju Scott Baden Simon Funke Sverker Holmgren Xing Cai
<b>Add event to calendar</b>	 vCal  iCal