

# Scientific Computing

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## CBC Workshop on Computational Cardiac Modelling - December 13, 2011

The annual computational cardiac modelling workshop.

Total number of participants: 20  
 Total number of guests outside of CBC: 13  
 Number of different nationalities represented: 7  
 Total number of speakers: 11  
 Total number of talks: 11

### Program

0830-0850: Coffee/breakfast (Videokonferanserommet)

0850-0900: S. Wall - Welcome

#### Calcium and cellular mechanisms

0900 – 0925: W. Louch (IEMR, Oslo U. Hospital Ullevål) – "Compensation and decompensation in cardiomyocyte Ca<sub>2+</sub> homeostasis"

0925 – 0950: M. Stokke (IEMR, Oslo U. Hospital Ullevål) – "Altered SR function and Ca<sub>2+</sub> waves"

0950 – 1015: Leiv Øyehaug (IEMR, Oslo U. Hospital Ullevål) – "Structural remodelling in cardiomyocytes - effects on Ca<sub>2+</sub> dynamics"

1015 – 1030: Coffee break

1030 – 1055: Pasi Tavi (University of Eastern Finland) – "E-C-coupling and pacemaking of embryonic cardiomyocytes: Lessons from experiments and modeling"

1055 – 1120: Glenn Lines (Simula Research Laboratory) – "Instabilities of calcium concentrations in cardiac myocytes"

1120 – 1145: Fernando Campos (University of Graz) – "Electroanatomical Characterization of Microfibrosis in a Histologically Detailed Computer Model"

1145-1230: Lunch (Videokonferanserommet)

#### Cardiovascular systems research

1230 – 1255: Eigil Samset (GE Vingmed Ultrasound) – "Center for Cardiological Innovation"

1255 – 1320: Kent-Andre Mardal (Simula) – Patient-specific simulations of hemodynamics in cerebral aneurysms - is non-laminar flow an indicator for risk of rupture?"

1320 – 1345: Espen Remme (ISR, Oslo U. Hospital Rikshospitalet) – "Lessons learned from a spring-type model of the left ventricular wall"

1345 – 1410: Hermenegild Arevalo (Johns Hopkins University) – "Image-based 3D models of infarcted hearts that predict arrhythmia morphology and optimal ablation site"

1410 – 1440: Natalia Trayanova (Johns Hopkins University) – "MRI Models of the Heart"

1440 – 1445: Closing remarks

1445-1530: Break

1530 -1800: Reception (upstairs at Simula; Management Meeting Room)

### Practical information

#### How to arrive

##### Location: Videokonferanserommet, IT Fornebu

IT Fornebu has several entrances. The main entrance is near the reception area ("Resepsjonen"). Simula is situated on the 4th floor at "Møtesenteret" in "Terminalbygget".

##### Public Transport



To arrive via public transport, take the train to Skøyen or Lysaker station, both of which have regular bus departures to Fornebu. Bus routes 24, 28, 31, and 31E stop at "IT Fornebu" – the busstop closest to Simula. 31E is the quickest route when traveling directly from the city center. For more information and schedules, please see <http://trafikanten.no/> or call 177 (within Oslo/Akershus). When you exit the bus, you should see the orange hub building ("Portalbygget").

##### Driving

Follow directions towards Fornebu and then follow the signs for Snarøya. After you have passed the Telenor building on your left, follow the road straight ahead through a junction and then take the second exit ("Rolfsbuktveien") at the first roundabout. Guests can park for a fee in the parking lot called "Gjester" at the left side just after the roundabout. Walk to the orange hub building ("Portalbygget").

##### Once arrived

From "Portalbygget", walk down the stairs beneath it to reach the main entrance hall ("Resepsjon"). To the right of the reception counter, there is a long corridor. Walk down the corridor and turn left at its end. Turning right and walking past the cafeteria area will lead you to Videokonferanserommet. (You will also find a staircase and an elevator in the cafeteria area. Simula Research Laboratory is on the 4th floor.)

<b>What</b>	▪ Workshop
<b>When</b>	Dec 13, 2011 from 08:30 AM to 06:00 PM
<b>Where</b>	Videokonferanserommet, IT Fornebu
<b>Contact Name</b>	Sam Wall
<b>Attendees</b>	Aslak Tveito Bernardo L. De Oliveira Dana Mackenzie Egil Samset Espen Remme Fernando o. Campos Glenn Lines Harish Naranayanan Hermenegild Arevalo Joakim Sundby Johan Hake Jussi Koivumäki Kristian Ø Loose Leiv Øyehaug Mathis K. Stokke Natalia Trayanova Pasi Tavi Sam Wall Siri Kallhovd William Louch
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