



# COARSE GRAINING WORKSHOP 2009

## JANUARY 28-30th 2009, CSC, FINLAND

Coarse graining is an emerging simulation technology that attracts more and more interest among the simulation society. Together with atomistic simulations, coarse-grained models allow one to bridge length and time scales and study mesoscale phenomena in a variety of processes.

In this workshop, some of the leading developers of coarse-grained models present the fundamentals of coarse graining as well as examples of their use in biosystems modeling. The mornings comprise **lectures** and the afternoons are spent with **hands-on** exercise sessions based on the lectures.

The workshop aims at giving the participant the tools, knowledge and practical skills to run coarse grained simulations with Gromacs.

For practical reasons, the workshop, and especially the exercises will be based on using Gromacs together with the MARTINI model that allows large-scale simulations of systems comprised of e.g. lipids and proteins.

In addition to the invited lectures, there will be space for some **contributed talks** by the participants. Poster sessions will not be organized.

The number of participants for hands-on exercises is limited to a maximum of 60. The lectures can be attended by a maximum of 130 people. Consider registering before 30.11.2008.

The workshop is supported by the National Graduate School in Materials Physics in Finland (<http://www.fyslab.hut.fi/gradschool/>) and the National Graduate School in Informational and Structural Biology (<http://www.abo.fi/isb>).

The workshop is organised by Dr. Atte Sillanpää (CSC - The IT Center for Science Ltd.; [atte.sillanpaa@csc.fi](mailto:atte.sillanpaa@csc.fi)) and Prof. Ilpo Vattulainen (Tampere University of Technology; [ilpo.vattulainen@tut.fi](mailto:ilpo.vattulainen@tut.fi)).

Date: January 28th - 30th 2009  
Location: Premises of CSC, Keilaranta 14, Espoo, FINLAND  
Language: English  
Lecturers: **Berk Hess, Siewert-Jan Marrink, Luca Monticelli, Alex de Vries**  
Deadlines: First round of registration -> **30.11.2008**  
First round of talk abstracts -> **30.11.2008**  
Final registration deadline -> **11.1.2009**  
Price: Academic 150 EUR+VAT, Governmental/Non-profit 250 EUR+VAT, Industrial 500 EUR+VAT. The fee includes course materials, morning and afternoon coffee, lunch, and evening program.  
Registration: <http://www.csc.fi/english/csc/courses/archive/cg-2009>

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