



## 1st Seasonal School on Multiscale Modelling and Simulations

# Seasonal School

The MAPPER project will organize its first seasonal school on multiscale computing this winter. The school will provide presentations on basic concepts of multiscale computing. This theoretical background will be the foundation of the practical sessions during which attendees will learn how to use multiscale modelling and coupling tools to create and submit simulations to European e-infrastructures.



**Multiscale *AP*PLICATIONS on  
European e-inf*RA*STRUCTURES**

1-2 February 2012

London

[www.mapper-project.eu](http://www.mapper-project.eu)

 UNIVERSITY OF AMSTERDAM

 UCL

 University of  
ULSTER

 SUPERCOMPUTING  
POZNAŃ  
NETWORKS

 CYFRONET

 LMU  
LUDWIG-MAXIMILIANS-UNIVERSITÄT  
MÜNCHEN  
MNM  
TEAM  
MUNICH NETWORK MANAGEMENT TEAM

 UNIVERSITÉ  
DE GENÈVE

 CHALMERS

 MAX-PLANCK-GESellschaft

 e-infrastructure

  
Contract number: 261507

 CAPACITIES

# Multiscale *AP*Applications on European e-inf*R*astructures



## Agenda (subject to change)

### Wednesday

- 09:00 Welcome
- 09:15 **Session 1 - Introduction to Multi-scale Computing**
- Keynote - The World is Multi-scale
  - The MAPPER Project
  - Taxonomy of Multiscale Computing Communities
- 10:15 Coffee Break
- 10:45 **Session 2 - Multi-scale Modeling Concepts**
- Overview
  - Scale Separation Maps
  - Tightly and Loosely Coupled Multi-Scale Models
  - Multi-scale Modeling Languages
- 11:30 Lunch
- 12:30 **Session 3 - User Tools for Multi-scale Modeling and Simulations**
- Application Hosting Environment (AHE)
  - Coffee Break
  - Multiscale Coupling Library and Environment (MUSCLE)
  - Coffee Break
  - Gridspace, Multiscale Application Designer (MAD) and Mapper Memory (MaMe)
- 16:30 End of Day One
- 19:00 **Social Event**

### Thursday

- 09:00 **Session 4 - Middleware and e-Infrastructures**
- European e-Infrastructures
  - QosCosGrid (QCG)
- 10:15 Coffee Break
- 10:30 **Session 5 - MAPPER Applications**
- ISR, an application of MUSCLE
  - Other MAPPER applications
- 11:30 Lunch
- 12:30 **Session 6 - Constructing and running a DMC Simulation**
- Coupling of 2 codes
  - Resource reservation
  - Submission
- 14:00 Coffee Break
- 14:15 **Session 7 - Survey, Outlook and Discussions**
- Other tool approaches for multi-scale computing
  - How projects can benefit from MAPPER
  - Future developments
- 16:00 End of School

**Please visit the MAPPER homepage for registration and additional information**  
<http://www.mapper-project.eu>