

INTOP 2015

The 3rd Workshop of the European Multi-scale Modelling Cluster: Interoperability in Multiscale Modelling of Nano-enabled Materials

28th – 29th May 2015

Introduction

Multiscale Material Modelling and Integrated Computational Material Engineering (ICME) approaches are vital components for successful design of nano-enabled products and enhanced production technologies.

The main challenges in the field are coupling and linking of models describing phenomena at different scales in order to form a more complete picture of how the macroscale behaviour of a material arises from its micro- and nanoscale properties. The aim is to enable predictive design of novel materials optimised for specified applications.

The IntOP2015 workshop will cover recent developments in coupling and linking of models and methods for more advanced nano-enabled Multiscale Materials Modelling and ICME approaches in industry.

Organizers

The workshop is organized by six EU supported projects and actions collaborating on the subject (SimPhoNy, DEEPEN, MoDeNa, NanoSim, MMP, ICMEg). This year's host is the SimPhoNy project.

Schedule and location

IntOP2015 is a two-day event in 28th – 29th May 2015. It will take place at the Department of Physics, University of Jyväskylä, Jyväskylä, Finland.

Session topics

- Multiscale and multiphysics modelling in material science
- Integration approaches and techniques
- HDF5 – File based interoperability
- Data standards, nomenclature – metadata

Invited presentations

Pietro Asinari (Politecnico di Torino, Italy)
Andris Gulans (HU Berlin, Germany)
Andrea Cepellotti (EPFL, Switzerland)

Scientific committee

- Keijo Mattila (University of Jyväskylä, Jyväskylä, Finland)
- Georg Schmitz (Access e.V., Aachen, Germany)
- Eoin O'Reilly (Tyndall National Institute, Cork, Ireland)
- Gerhard Goldbeck (Goldbeck Consulting, Cambridge, UK)
- Adham Hashibon (Fraunhofer IWM, Freiburg, Germany)
- Joan Adler (Technion, Haifa, Israel)

Additional information

For more information, including help with travel and accommodation, visit: simphony2015.jyu.fi

Further inquiries are to be directed to simphony2015@jyu.fi



FP7
European Union Funding
for Research & Innovation