Swedish e-Science Education

Winter School in Multiscale Modeling

December 1-12 2014

Multiscale simulations in modern chemical, biological and materials sciences are widespread and in many areas of research are considered to be an essential tool for a microscopic understanding of physical phenomena behind experimental observations. The biannual winter school on multiscale modeling will bring together world leading researchers and graduate students to present, discuss and solve problems in various areas of research involving multiple scales. This year's program is focused on *ab initio* correlated, empirical valence bond theory, quantum mechanics/molecular mechanics, and coarse grain molecular dynamics methods and their applications in biochemistry and catalysis.

Invited Teachers:

Prof. dr. Frank Neese
Director of the MPI for Chemical Energy Conversion
Mülheim an der Ruhr, Germany

Prof. dr. Jeremy Harvey
Katholieke Universiteit Leuven
Leuven, Belgium

Prof. dr. Siewert-Jan Marrink
University of Groningen
Groningen, Netherlands

Dr. Lynn Kamerlin
Uppsala University
Uppsala, Sweden

Registration: The school is open for all PhD students in Chemistry, Physics, Numerical Analysis, and Computational Science. To register please visit the winter school website
http://sese.nu/multiscale-2014/
Registration deadline – November 15 2014.

For more information contact Dr. Zilvinas Rinkevicius, KTH Royal Institute of Technology, Sweden (rinkevic@kth.se).