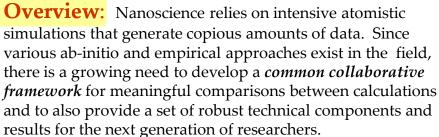


2010 Joint NNIN/C & NCN Fall Workshop

Building a Collaborative Framework for Nanoscale Simulations

November 14th-16th, 2010 Cornell University, Ithaca, NY

http://www.cnf.cornell.edu/cnf fallworkshop2010.html



This workshop brings together leading figures in fields of materials and nanostructure simulation to help develop a set of lingua franca formats & libraries for easy translation of input and output files between codes. We will address the creation of international cyberinfrastructure resources that deliver trusted components for atomistic calculations such as empirical potentials, pseudopotentials, basis sets, and atomic coordinates.

Confirmed Speakers:

Gerhard Klimeck (Purdue) Jim Sethna (Cornell) Geoffrey Hutchison (Pittsburgh) Derek Warner (Cornell) Matthieu Verstraete (University of Liege, Belgium) Karsten Jacobsen (Technical University of Denmark) Derek Stewart (Cornell)

Registration Deadline:

November 3, 2010 Seating is limited to 40 participants

Organizer: Derek Stewart (stewart@cnf.cornell.edu)

Workshop Topics

Trusted Components for Calculations

 Pseudopotentials Basis Sets

• Empirical Potentials Crystallographic Data

Standing on the Shoulders of Giants

- Developing a Database of Input Files based on Previous Research
- Common IO Formats & Libraries for Ab-initio Calculations

Overview of Current Efforts in the Field Including...

- Atomic Simulation Environment
- NCN Nanohub

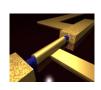
OpenBabel

- NNIN Virtual Vault
- European Theoretical Spectroscopy Facility (ETSF) DFT Libraries

Fully Reproducible Science

- Linking Calculations directly with Publications
- Input Files as a part of Article Supplementary Info

Tutorial Sessions on ASE, Abinit, NEMO, and more!



Photograph by Zack Schildhorn



