Modern developments in the ab initio description of charged systems for semiconductors and electrochemistry

Schedule

Sunday, 23. 10.	
16.00-18.30	Registration
18.30	Dinner
20.00-21.30	Chris Van de Walle : First-principles calculations for defects and impurities: hydrogen in oxides and nitrides
Monday, 24.10.	
09.00-10.30	Wolfgang Schmickler: Modelling electrochemical charge-transfer reactions
10.30-10.45	Coffee
10.45-12.00	Dominik Marx : H ⁺ (aq) and OH ⁻ (aq)
12.30	Lunch
14.00-15.15	Kersti Hermansson:
15.15	Coffee
15.30 - 16.45	Richard Hennig: Quantum Monte Carlo for defects in solids and solvation
	of molecules and surfaces
16.45-18.00	Georg Kresse: Hybrid functionals applied to extended systems
18.30	Dinner
20.00-21.30	Poster
Tuesday, 25.10.	
09.00-10.15	Mira Todorova: Extending the concept of semiconductor defect chemistry to
	electro-chemistry: constructing electro-chemical E/pH diagrams based on ab-initio calculations
10.15-10.30	Coffee
10.30-11.45	Axel Groß : First principles description of structures and processes at
electrode-electrol	
12.30	Lunch
13.30-15.45	Excursion
15.45	Coffee
16.00-17.15	Paolo Umari: Large scale GW calculations with optimal
	polarizability basis sets and Lanczos chains
17.15-17.45	Shengbai Zhang: Charged dopants in semiconductor nanowire under partially periodic boundary conditions
17.45-18.15	Hannu–Pekka Komsa: Comparison of various finite–size supercell correction
	schemes for charged defect calculations
18.30	Conference Dinner
Wednesday, 26.10).
09.00-10.15	Christoph Freysoldt: Charge corrections in supercells
10.15-10.30	Coffee
10.30-11.45	Eckhard Spohr: Atomistic modeling of electrochemical reactions
	at the liquid/solid interface
12.30	Lunch