

SPECIAL LECTURE

- Lecturer: **Prof. Dr. Jeffrey P. Greeley, Center for Nanoscale Materials, Argonne National Laboratory, Argonne, IL USA**
- Title: **Catalysis and Electrochemistry on Transition Metal Nanoclusters**
- Abstract: Recent work in our group has addressed problems in both DFT computational heterogeneous catalysis and computational electrochemistry. The former studies focus on the chemical properties of subnanometer metal clusters for selective alkane dehydrogenation reactions, with a view to elucidating the fundamental structural features that give subnanometer clusters significantly different catalytic properties from those of larger nanoparticles. The latter studies focus on the development of descriptor based models to rapidly estimate the electrochemical properties of transition metal alloys for various reactions and corrosive processes of importance in low-temperature fuel cell operation. I will demonstrate how computational approaches have reached the stage where they can be used to find promising catalytic materials not previously identified by experiment.
- Date: **Friday, 16 October 2009**
- Time: **2:00 pm**
- Location: **Technische Universität Berlin
Institut für Chemie, Technische Chemie
Straße des 17. Juni 124, 10623 Berlin
room TC 014**
- Organiser: Prof. Dr. Peter Strasser (TUB)

Guests are cordially invited to attend!

Prof. Dr. Peter Strasser