



Postdoctoral Position in Surface Science

What we can provide:

- A one-year postdoctoral appointment in the first instance.
- Salary ~\$35,000/year according to experience. The start of the postdoc in Fargo no later than January 2011 would be appreciated.
- A young interdisciplinary team of warmhearted Ph.D. students and

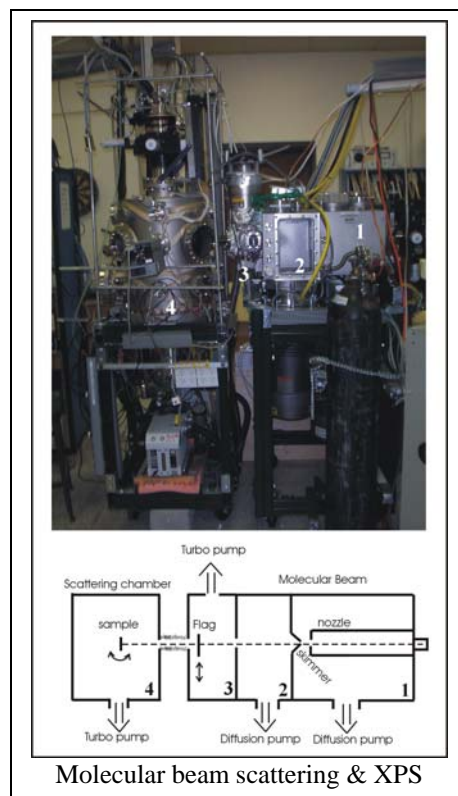
undergraduate coworkers on a green/white (~seven/five months, see address below) campus looking forward to exciting projects.

Techniques: We mostly apply the molecular beam scattering technique to study the dynamics/kinetics of adsorption processes and surface reactions on nanostructured catalysts. Several joint projects with research centers (e.g. Berkeley – Molecular Foundry and Brookhaven) are active as well as collaborations with nanofabrication groups in the US, Europe, and Israel. Other techniques include AES, LEED, XPS, TDS, HREELS, and a GC ambient pressure flux reactor.

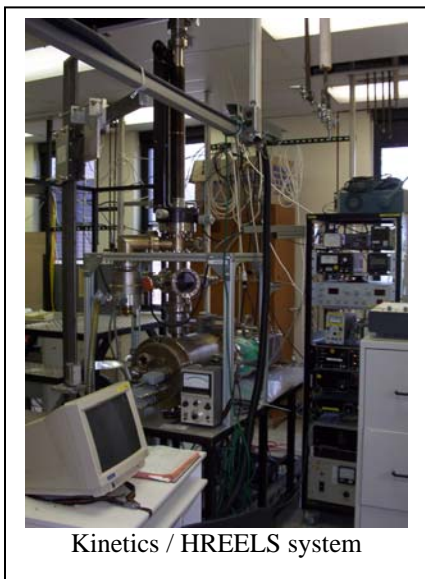
Current systems: We work on a variety of different systems including nanostructured catalysts, single crystals, and powders.

What we expect: The ability to independently handle complex ultra-high vacuum equipment including standard analytic tools, i.e., prior knowledge about surface science techniques is expected. Experience in nanofabrication if related to current projects only would be a plus. Very good communication skills in English and the ability of competent and friendly advising of students. Applications of outstanding graduates/postdocs with solid knowledge in (kinetic) Monte Carlo Simulation techniques or quantum chemical calculations, applied to surface science problems, will be considered as well.

North Dakota State University: ~16,000 students; 40 Ph.D. programs on campus, 20 faculty members at the chemistry department.



Molecular beam scattering & XPS



Kinetics / HREELS system

Fargo/Moorhead is a 130,000 population community twin city at the border to Minnesota; 30 min drive to the lakes; 3 h to Minneapolis or Winnipeg, low living costs, family friendly environment, very cold winters and hot summers. If you get depressed when watching snow for more than four weeks a year, then do not apply.

As always, the job offer is based upon continuation of the current funding (DoE-EPSCoR, NSF CAREER, DoE).

Interested: Send brief application including CV, publication list, one page max. summary of your past research experience in surface science, preferred starting date, and contact information for letter of reference requests via E-mail (pdf) to:

Dr. Uwe Burghaus, Department of Chemistry, 1231 Albrecht Blvd., P.O. Box 5516 Fargo, North Dakota 58105-5516, USA

Email Uwe.Burghaus@ndsu.edu (preferred)

URL <http://www.uweburghaus.de> <http://www.chem.ndsu.nodak.edu>

NDSU is an equal opportunity institution.

May 4th, 2010