



TECHNISCHE  
UNIVERSITÄT  
WIEN

Vienna University of Technology

INSTITUT FÜR  
ANGEWANDTE PHYSIK  
Institute of Applied Physics  
vormals/formerly  
Institut für Allgemeine Physik



Wiedner Hauptstraße 8-10/E134, 1040 Wien/Vienna, Austria – Tel: +43 1 58801 13401 / Fax: +43 1 58801 13499 – E-mail: [office@iap.tuwien.ac.at](mailto:office@iap.tuwien.ac.at) / <http://www.iap.tuwien.ac.at>

# IAP-SEMINAR

## EINLADUNG

- Termin: **Dienstag, 27.5.2014 um 16:00 Uhr**  
Ort: **Technische Universität Wien,  
Institut für Angewandte Physik,  
Seminarraum 134A, Turm B (gelbe Leitfarbe), 5. OG  
1040 Wien, Wiedner Hauptstraße 8-10**
- Vortragender: **Hendrik Bluhm**  
Chemical Sciences Division, Lawrence Berkeley National Laboratory,  
Berkeley, CA/USA
- Thema: **Heterogeneous chemistry of solid/vapor and liquid/vapor interfaces  
investigated under environmental conditions**

### Kurzfassung

The interaction of gases with surfaces plays a major role in many processes in the environment, heterogeneous catalysis, and technology. Ambient pressure photoelectron spectroscopy is an excellent method for the investigation of the interfacial chemistry of solid/vapor and liquid/vapor interfaces under reaction conditions at pressures of several Torr. Recent developments in the technique now also allow to access liquid/solid interfaces. This talk will discuss the reaction of water vapor with oxide surfaces, the correlation between electrical potentials and surface chemistry in model solid oxide fuel cells, as well as the influence of the presence of adsorbates on the premelting of ice.

---

*Alle interessierten Kolleginnen und Kollegen sind zu diesem Seminar  
(45 min mit anschließender gemeinsamer Diskussion) herzlich eingeladen.*

*U. Diebold e.h.  
(Seminar-Chairperson)*

*H. Störi e.h.  
(LVA-Leiter)*