



TECHNISCHE  
UNIVERSITÄT  
WIEN

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

## ANNOUNCEMENT

- Date: **Monday, 21.11.2016**  
Time: **16:00 s.t.**  
Location: **Technische Universität Wien, Institut für Angewandte Physik, E134**  
yellow tower „B“, 5<sup>th</sup> floor, Sem.R. DB gelb 05 A (room number DB05E11), 1040 Wien, Wiedner Hauptstraße 8-10
- Lecturer: **Prof. Marc Koper**  
University of Leiden/NL
- Subject: **Surface electrochemistry of platinum single crystals in aqueous solution**
- Abstract: In this talk I will discuss the interaction and reaction of aqueous electrolyte solution with platinum single-crystal electrodes studied by voltammetry, in situ vibrational spectroscopy, imaging, and theoretical modeling. I will highlight specifically the formation of H, OH, O and other species on the surface, in dependence on surface structure, and compare to similar studies in ultra-high-vacuum. In addition, I will show some unexpected behavior of platinum surfaces at very negative potentials. These insights are crucial for a proper understanding of platinum electrochemistry for the application of platinum in various electrochemical devices.

---

*All interested colleagues are welcome to this seminar lecture  
(45 minutes presentation followed by discussion).*

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

*F. Aumayr e.h.  
(LVA-Leiter)*