

EINLADUNG

zum Vortrag
von

Prof. Marc Koper
University of Leiden/NL

Surface electrochemistry of platinum single crystals in aqueous solution

am

Montag, 21. November 2016, um 16:00

TU Wien, Institut für Angewandte Physik, E134
yellow tower „B“, 5th floor, Sem.R. DB gelb 05 A (room number DB05E11),
1040 Wien, Wiedner Hauptstraße 8-10

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.

FWF SFB F45 „Functional Oxide Surfaces and Interfaces (FOXSI)“

Prof. Günther Rupprechter (Speaker), Melanie Schärer (SFB FOXSI Secretary)

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