



# Vortragsankündigung

- im Rahmen des UniCat-Kolloquiums -  
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Es spricht: **Dr. Frank Uwe Renner**, Max-Planck-Institut für Eisenforschung, Düsseldorf

Zeit: **Mittwoch, 20. Mai 2009**  
**17:15 Uhr**

Ort: **TU Berlin**  
**Institut für Chemie, Altes Chemiegebäude**  
**Straße des 17. Juni 115**  
**10623 Berlin**  
**Raum C 243**

Thema: **Electrochemical interface structures studied by *in-situ* X-ray diffraction**

Abstract: Surface science utilizes well-defined model surfaces, often single-crystalline, to elucidate a fundamental understanding of surfaces, in UHV and increasingly in contact with gas or liquid environments. For the latter cases of interfaces *in-situ* X-ray diffraction employing Synchrotron radiation and dedicated diffraction chambers offers quite unique possibilities to address crystalline surface structures. After an introduction and a short example of a solid-gas interface study I will focus on recent research on electrochemical surfaces (i.e. solid-liquid interfaces under potential control). The presented work will focus on structural studies on dealloying of Cu-Au and Cu-Pd alloys in aqueous acidic solutions. I will also include a short overview of diverse studies such as metal deposition on semiconductors, metal deposition from ionic liquids, and Li interactions of a model Li-ion battery anode in commercial organic electrolytes.

Organisator: Prof. Dr. Peter Strasser (TUB)

Gäste sind herzlich willkommen!

Prof. Dr. Matthias Driß  
Sprecher des Exzellenz-Clusters UniCat