

*Elementary reaction steps in electrocatalysis:  
Theory meets Experiment*

FOR 1376

5. Workshop

03. – 04. Mai 2012

Kardinal-Hengsbach-Haus, Dahler Höhe 29, 45239 Essen-Werden

**Tagesordnung**

**Donnerstag, 03.05.2012**

- 14:00 Eröffnung  
**Eckhard Spohr, Axel Gross**
- 14:10 Disentangling lattice strain and substrate composition: competing influences on the catalytic properties of Pt(111) epitaxial layers grown on Pt/Ru substrates  
**Jonathan E. Mueller**, Ludwig A. Kibler, Timo Jacob
- 14:40 Nanopatterning of Au(111) through potential cycling  
**Carsten Köntje**
- 15:10 MD of Proton Discharge at Metal Electrodes  
Johannes Wiebe, Katja Kravchenko, **Eckhard Spohr**
- 15:30 Experimental results on hydrogen reactions: An update on the low temperature measurements and first results on the activity of Pt on silver  
**Tine Brülle**
- 16:00 Kaffeepause**
- 16:30 The double layer at the graphite – electrolyte interface  
**Noelia Luque**
- 16:55 Electron transfer to oxygen species  
**Wolfgang Schmickler**
- 17:20 Methanol dissociative adsorption on Pt film electrode studied by infrared spectroscopy  
**Zenonas Jusys**
- 18:00 Abendessen**

- 20:00 Charged electrodes: initial DFT results  
**Tanglaw Roman**
- 20:30 Structure and reactivity of bimetallic surface alloys  
**Luis Mancera**

## **Freitag, 04.05.2012**

- 07.30 Frühstück**
- 09:00 Structure of water at stepped surfaces  
**Xiaohang Lin**
- 09:30 Cu-Pt alloy formation on Pt(111) und Ru(0001)  
**Albert K. Engstfeld**, S. Beckord, C. K. Jung, Rolf. J. Behm
- 10:00 A new model for the Hydrogen Evolution Reaction on Silver electrodes  
A. Ruderman, **Fernanda Juarez**, German Soldano,  
Elizabeth Santos
- 10:30 Kaffeepause**
- 11:00 HCOOH oxidation on Au and on Pd monolayers  
**Ludwig A. Kibler**, Johannes Hermann, Mohammed Al-Shakran
- 11:30 Diskussion
- 12:30 Mittagessen**
- 14:00 Abreise**