

FOXSI

Functional Oxide Surfaces and Interfaces



Special Research Program (SFB) F45 Functional Oxide Surfaces and Interfaces (FOXSI)

Kick-off Meeting

22.-23. September 2011, Vienna University of Technology, 1060 Vienna, Austria

Thursday, September 22th, 2011

Prechtl-Saal, TU Main Building, Ground Floor

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| 15:15 – 16:00 | Get-together and Registration |
| 16:00 – 16:05 | Welcome Address Günther Rupprechter , SFB Speaker |
| 16:05 – 16:10 | Representative of the Hosting University
Rector Sabine Seidler |
| 16:10 – 16:15 | Representative of the Hosting University
Vice Rector of Research Johannes Fröhlich |
| 16:15 – 17:00 | Klaus Wandelt (Universities Bonn, Breslau, Rom)
INVITED: “Surface Science ex Vacuum” |
| 17:00 – 17:30 | Discussion |
| ca. 18:15 | DINNER (Hotel Erzherzog Rainer) ; Invited Speakers,
TU Representatives, PIs, Organizers) |

Friday, September 23th, 2011

HS 7 (Schütte-Lihotzky), TU Main Building, Ground Floor

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| 09:00 – 09:45 | Gianfranco Pacchioni (University Milano-Bicocca)
INVITED: “Electron transfers at oxide surfaces.
The MgO paradigm: from F centers to ultra-thin films” |
| 10:00 – 10:30 | COFFEE BREAK + POSTER DISCUSSION |

Progress Report of the Project Parts (15+5 min)

- 10:30 – 10:50 **Günther Rupprechter**
“In situ spectroscopy of chemical reactions on pure and doped ZrO₂ thin films and zirconia-based metal-oxide systems” (02)
- 10:50 – 11:10 **Bernhard Klötzer**
“Catalytic synergisms at (bi)metallic and oxidic phase boundaries and interfaces” (03)
- 11:10 – 11:30 **Yuri Suchorski**
“In situ mesoscopic and microscopic visualisation of catalytic reactions on metal-oxide systems” (04)
- 11:30 – 11:50 **Michael Schmid**
“Zirconia films & zirconia-metal systems on the atomic scale” (05)
- 12:00 – 13:20 **LUNCH BREAK (Cafe Nelson; nearby)**, all SFB participants
- 13:30 – 14:15 **Falko Netzer** (University Graz)
INVITED: “Structure concepts and phase transitions in metal-supported oxide nanostructures”
- 14:30 – 14:50 **Andreas Stierle**
“Atomic structure of functional oxide interfaces under operational conditions” (06)
- 14:50 – 15:10 **Ulrike Diebold**
“Growth and fundamental surface properties of perovskites” (07)
- 15:10 – 16:00 **COFFEE BREAK + POSTER DISCUSSION**
- 16:00 – 16:20 **Alexander Opitz (Jürgen Fleig)**
“Active and resistive zones of electrochemical oxidation and reduction reactions on zirconia electrolytes” (09)
- 16:20 – 16:40 **Sven Barth (Ulrich Schubert)**
“Preparation and properties of metal oxides prepared from organically modified precursors by sol-gel processing” (10)
- 16:40 – 17:00 **Josef Redinger**
“Theory of oxide surfaces and metal/oxide interfaces” (11)
- 17:00 – 17:20 **Michael Stöger-Pollach**
“Electron microscopy of thin oxide films and interfaces” (01)
- 17:20 **Günther Rupprechter** “Closing”
- ca. 18:15 **DINNER (La Scala, Elisabethstrasse 13)**
(Invited Speakers, PIs, Project Employees, Organizers)