

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

26.-28. September 2012, Conference Center Burg Schlaining, Stadtschlaining, Austria

Wednesday, September 26th, 2012

- 9:00 – ca. 11:00 Bus transfer from Vienna Karlsplatz to Burg Schlaining
- 11:00 Check-in and Registration
- 12:00 – 13:30 **Get-together and LUNCH**
- 13:30 – 13:35 Welcome Address – **Josef Redinger**
- 13:35 – 13:45 Report of the SFB Speaker **Günther Rupprechter**
- 13:45 – 14:45 INVITED
Peter Blaha (Vienna University of Technology)
“DFT calculations for surfaces and interfaces”
- 14:45 – 15:30 **COFFEE BREAK + POSTER DISCUSSION**
- 15:30 – 16:00 **Christian Weilach (Projekt Rupprechter)**
“XPS studies on ZrO₂/Pt₃Zr thin films ” (02)
- 16:00 – 16:30 **Simon Penner (Projekt Klötzer)**
“Thin film oxide and metal-oxide model systems for SOFC applications” (03)
- 16:30 – 17:00 **Raffael Rameshan (Projekt Klötzer)**
“CH₄-induced carbon chemistry on Ni, NiCu and NiCu/ZrO₂ model systems studied by in-situ XPS” (03)
- 18:00 – 19:30 **DINNER**
- 19:30 – 21:00 **POSTER DISCUSSION**

Thursday, September 27th, 2012

- 07:30 – 09:00 **Breakfast**
- 09:00 – 10:00 INVITED
Jürgen Behm (University Ulm)
“Surface Science and Electrocatalysis – A new symbiosis?”
- 10:00 – 10:30 **COFFEE BREAK**
- 10:30 – 11:00 **Yuri Suchorski**
“Along the complexity axis in CO oxidation on palladium: from metal micrograins to oxides and powders” (04)
- 11:00 – 11:30 **Jake Choi (Projekt Schmid)**
“STM on ultra-thin ZrO₂ film: growth of metal clusters and H₂O adsorption studies” (05)
- 11:30 – 12:00 **Andreas Stierle**
“Perovskite model electrodes on YSZ under potential control: first x-ray results” (06)
- 12:00 – 13:30 **LUNCH**
- 13:30 – 14:00 **Zhiming Wang (Projekt Diebold)**
“Tuning Surface Band Bending by Controlling Domain Boundary on SrTiO₃(110) surface” (07)
- 14:00 – 14:30 **Bernhard Stöger (Projekt Diebold)**
“Scanning tunneling microscopy study of single-crystalline Sr₃Ru₂O₇” (07)
- 14:30 – 15:00 **Jürgen Fleig**
“Electrochemical gas exchange reactions on oxide surfaces...and where we need a little help from our friends” (09)
- 15:00 – 16:00 **COFFEE BREAK + POSTER DISCUSSION**
- 16:00 – 16:30 **Marcel Hieckel (Projekt Redinger)**
“Ab-initio studies of Strontium-Ruthenates” (11)

- 16:30 – 17:00 **Wernfried Mayr-Schmölzer (Projekt Redinger)**
"Abi-initio studies of Zirconia/Metal interfaces" (11)
- 17:00 – 17:30 **Florian Mittendorfer**
"Growth and magnetic order of supported CoO layers" (11)
- 17:30 **Josef Redinger, Günther Rupprechter**
SFM Member Assembly
(PIs, incl. Senior Scientists and Young Faculty)
- 18:30 – 20:00 **DINNER**
- 20:00 – 21:00 **Discussions**

Friday, September 28th, 2012

- 07:30 – 09:00 **Breakfast**
- 09:00 – 11:00 **Discussion Meetings**
PIs, Young Scientists and PhD Students
- 11:30 – 13:00 **LUNCH**
- 13:00 Bus transfer to Vienna, Karlsplatz (return ca. 15:00)

Posters:

Karin Föttinger (P 02):

“Methanol Steam Reforming on Pd/Ga₂O₃: Mechanistic Insights by in situ FTIR Spectroscopy”

Astrid Kitla (P 02):

“Zirconia Based Copper and Nickel Catalysts for Methane Conversion”

Hao Li (P 02):

“Preparation and spectroscopic characterization of ZrO₂ thin film on Pt₃Zr”

Michaela Kogler/ Eva Maria Köck (P 03):

“In-Situ FTIR and EIS-Investigations of the Water Gas Shift Reaction on Yttria”

Martin Datler (P 04):

“Visualizing the CO oxidation on powder samples: palladium versus platinum”

Sergey Volkov (P 06):

“In-situ x-ray investigation of solid oxide fuel cell model electrodes”

Uta Hejral (P 06):

“CO oxidation induced sintering of alloy nanoparticles”

Stefan Gerhold (P 07):

“Reversible structural transitions on SrTiO₃ (110) & (001) surfaces tuned by surface chemical composition”

Markus Kubicek (P 09):

“Effects of substrate and lattice strain on oxygen exchange and diffusion in (La,Sr)CoO_{3-δ} thin film electrodes investigated by ¹⁸O tracer exchange”

Katharina Langer-Hansel und Sandra Kogler (P 09):

“Oxygen tracer exchange on doped SrTiO₃ and LaFeO₃ investigated by ToF-SIM”

Aparna Date (P 10):

“Synthesis of single source precursors for NiO/ZrO₂”