

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

Annual Symposium

21.-23. September 2014, Conference Center Burg Schlaining, Stadtschlaining, Austria

Sunday, September 21th, 2014

- 9:00 – 11:00 Bus transfer from Vienna Karlsplatz to Burg Schlaining
- 11:00 Check-in and Registration
- 12:00 – 13:00 **Get-together and LUNCH**
- 13:00 – 13:05 Welcome Address – **Josef Redinger**
- 13:05 – 13:15 Report of the SFB Speaker **Günther Rupprechter**
- 13:15 – 14:15 **Günther Rupprechter**
Functional Oxide Surfaces and Interfaces (FOXSI)
Report of the Speaker on the current funding period and overview of the forthcoming funding period, plus general discussion
- 14:15 – 15:00 **COFFEE BREAK + POSTER DISCUSSION**
- 15:00 – 15:30 **F4505 Michael Schmid**
Zirconia films and zirconia-metal systems on the atomic scale
- 15:30 – 16:00 **F4502 Günther Rupprechter**
In situ spectroscopy of chemical reactions on pure and doped ZrO₂ thin films and zirconia-based metal-oxide systems
- 16:00 – 16:30 **F4504 Yuri Suchorski**
In situ mesoscopic and microscopic visualisation of catalytic reactions on metal-oxide systems
- 16:30 – 17:00 **F4510 Schubert**
Preparation and properties of metal oxides prepared from organically modified precursors by sol-gel processing

- 17:00 – 17:30 **F4503 Bernhard Klötzer**
Catalytic synergisms at (bi)metallic and oxidic phase boundaries
and interfaces
- 18:00 – 19:30 **DINNER**
- 19:30 – 21:30 **INFORMAL DISCUSSIONS**

Monday, September 22th, 2014

- 07:30 – 09:00 **Breakfast**
- 09:00 – 09:30 **F4509 Jürgen Fleig**
Active and resistive zones of electrochemical oxidation and
reduction reactions on zirconia electrolytes
- 09:30 – 10:00 **F4506 Andreas Stierle**
Atomic structure of functional oxide interfaces under operational
conditions
- 10:00 – 10:30 **F4507 Ulrike Diebold**
Growth and fundamental surface properties of perovskites
- 10:30 – 11:00 **COFFEE BREAK**
- 11:00 – 11:30 **F4511 Josef Redinger**
Theory of oxide surfaces and metal/oxide interfaces
- 11:30 – 12:00 **F4501 Günther Rupprechter**
Coordination Project (Johannes Bernardi, Andreas Stierle)
- 12:15 – 13:30 **LUNCH**
- 14:00 – 16:00 **POSTER SESSION**
- 16:00 – 17:00 **GENERAL ASSEMBLY**

18:00 – 20:00 **DINNER**

20:00 – 21:30 **INFORMAL DISCUSSIONS**

Tuesday, September 23th, 2014

08:00 – 09:00 **Breakfast**

09:00 Bus transfer to Vienna, Karlsplatz (return ca. 11:30)

Posters:

F4505 Schmid / P05

Daniel Halwidl, Michael Schmid

Zirconia films and zirconia-metal systems on the atomic scale

F4502 Rupprechter / P02

Karin Föttinger, Christoph Rameshan, Günther Rupprechter

In situ spectroscopy of chemical reactions on pure and doped ZrO₂ thin films and zirconia-based metal-oxide systems

F4504 Suchorski / P04

Ivan Bepalov, Yuri Suchorski

In situ mesoscopic and microscopic visualisation of catalytic reactions on metal-oxide systems

F4510 Schubert / P10

Ulrich Schubert

“Preparation and properties of metal oxides prepared from organically modified precursors by sol-gel processing”

F4503 Klötzer / P03

Simon Penner, Bernhard Klötzer

Catalytic synergisms at (bi)metallic and oxidic phase boundaries and interfaces

F4509 Fleig / P09

Alexander Opitz, Jürgen Fleig

Active and resistive zones of electrochemical oxidation and reduction reactions on zirconia electrolytes

F4506 Stierle / P06

Sergey Volkov, Andreas Stierle

Atomic structure of functional oxide interfaces under operational conditions

F4507 Diebold / P07

Gareth Parkinson, Ulrike Diebold

Growth and fundamental surface properties of perovskites

F4511 Redinger / P11

Florian Mittendorfer, Josef Redinger

Theory of oxide surfaces and metal/oxide interfaces

F4501 Rupprechter / P01

Günther Rupprechter, Johannes Bernardi, Andreas Stierle

Coordination Project including USTEM and DESY