



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

**5<sup>th</sup> Annual PhD Workshop**

30. March 2016 – 02. April 2016, Gasthof Stenitzer, 8967 Haus im Ennstal

**Wednesday, 30. March, 2016**

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| 7:30 – ca. 11:30 | Bus transfer from Vienna Karlsplatz to Haus im Ennstal, Styria   |
| 11:30            | Check-in   |
| 11:30 – 12:30    | <b>Get-together and LUNCH</b>  |
| 13:30 – 16:30    | <b>Discussions</b>   |
| 17:00 – 18:30    | <b>DINNER</b>  |
| 18:30 – 19:00    | <b>Thomas Götsch</b><br>The Influence of the Ytria Content on the Crystallography and Electronic Structure of YSZ (03) |
| 19:00 – 19:30    | <b>Michaela Kogler + Eva-Maria Köck</b><br>Water chemistry on $Y_2O_3$ , YSZ and $ZrO_2$ (03)                          |
| 20:00 – 22:00    | <b>Poster Session</b>  |

## Thursday, 31. March, 2016

- 07:30 – 08:30 **Breakfast**
- 08:30 – 09:00 **Edvinas Navickas**  
Oxygen incorporation and diffusion in SOFC electrode materials:  
the role of defects, strain, bias and ambient humidity (09)
- 09:00 – 09:30 **Norbert Köpfle**  
Dry reforming of methane with CO<sub>2</sub> to syngas over Zr/Pd:  
An experimental and theoretical study (03)
- 09:30 – 10:00 **BREAK**
- 10:00 – 10:30 **Ivan Bepalov**  
Catalytic CO oxidation on high index Rh surfaces (04)
- 10:30 – 11:00 **Sebastian Buhr**  
Catalytic CO oxidation on Rh on the nanoscale (04)
- 11:15 – 12:00 **LUNCH**
- 13:00 – 17:00 Discussions
- 17:30 – 18:30 **DINNER**
- 18:30 – 19:00 **Daniel Halwidi**  
Adsorption of Water and Oxygen on Calcium Ruthenate (07)
- 19:00 – 19:30 **Wernfried Mayr-Schmölzer**  
DFT calculations for the adsorption of small molecules on  
Ca<sub>3</sub>Ru<sub>2</sub>O<sub>7</sub> (001) (11)
- 19:30 – 20:00 **Matthias Grünbacher**  
Surface reactivity studies on iron containing perovskites (03)
- 20:00 – 22:00 **Poster Session**

## Friday, 01. April, 2016

- 07:30 – 08:30      **Breakfast**
- 08:30 – 09:00      **Peter Lackner**  
STM investigations of ZrO<sub>2</sub> - from a single trilayer to multilayers (05)
- 09:00 – 09:30      **Nevzat Yigit**  
Preferential Oxidation of CO Reaction over LaCoO<sub>3</sub>-Perovskite in the presence of H<sub>2</sub> (02)
- 09:30 – 10:00      **Kresimir Anic**  
Cobalt oxide model systems - bridging the pressure gap (02)
- 10:00 – 11:15      **General Discussion – Project Planning**
- 11:15 – 12:00      **LUNCH**
- 13:00 – 17:00      Discussions
- 17:30 – 18:30      **DINNER**
- 19:00 – 21:00      **General Assembly**

## **Saturday, 02. April, 2016**

07:30 – 08:30      **Breakfast**

9:00                Bus transfer to Vienna, Secession (return ca. 13:00)

### **Posters:**

**Wolfgang Wallisch (P 01):**

Bandgap measurements at the LaSrMnO<sub>3</sub>/LaAlO<sub>3</sub> interface

**Matteo Roiaz (P 02):**

Roughening of Copper (100) by High Pressure Carbon Monoxide Exposure

**Martin Datler, Johannes Zeininger, Ivan Bepalov, Sebastian Buhr, Günther Rupprechter, Yuri Suchorski (P 04):**

Spatio-temporal oscillations in hydrogen oxidation on Rh: mesoscopic versus nanoscale

**Giada Franceschi, Stefan Gerhold, Michele Riva, Bilge Yildiz, Michael Schmid and Ulrike Diebold (07):**

Adjusting Island Density and Surface Morphology of the SrTiO<sub>3</sub>(110)-(4x1) Surface: Pulsed Laser Deposition Combined with Scanning Tunneling Microscopy

**Stefanie Taibl (P 09):**

Electrochemical properties of SrTiO<sub>3</sub> thin films

**Wernfried Mayr-Schmölzer, Florian Mittendorfer, Josef Redinger (P11):**

Charge state of metallic atoms on thin film and bulk Zirconia surfaces



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