



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

3rd Annual PhD Seminar

07.-10. April 2014, ÖTK Schutzhaus Hochkar, 3345 Göstling/Ybbs, Austria

Monday, April 7th, 2014

- | | |
|------------------|---|
| 8:00 – ca. 11:00 | Bus transfer from Vienna Karlsplatz to Hochkar |
| 11:00 | Check-in |
| 12:00 – 13:00 | Get-together and LUNCH |
| 13:30 – 16:30 | Discussions |
| 17:00 – 18:30 | DINNER |
| 18:30 – 19:00 | Hao Li
“A combined XPS, TPD and Infrared study of the interaction between water and Zirconium oxide” (01) |
| 19:00 – 19:30 | Jake Choi
“Different ultrathin zirconia films as substrates for metal clusters” (05) |
| 19:30 – 20:00 | Wernfried Mayer-Schmölzer
”Molecules and metal atoms on thin supported Zirconia films: DFT studies” (11) |
| 20:00 – 22:00 | Poster Session |

Tuesday, April 8th, 2013

- | | |
|---------------|--|
| 07:30 – 08:30 | Breakfast |
| 08:30 – 09:00 | Ivan Bepalov
“CO oxidation on the ZrO ₂ supported Pd model catalysts: the role of the support” (04) |
| 09:00 – 09:30 | Raffael Rameshan
“SXR D Study of Carbide and Graphene Growth on Ni(111)” (03) |

- 09:30 – 10:00 **COFFE BREAK**
- 10:00 – 10:30 **Sergey Volkov**
"In-situ x-ray investigation of solid oxide fuel cell model electrodes" (06)
- 10:30 – 11:00 **Michaela Kogler/ Eva-Maria Köck**
"Hydrogen adsorption and reactivity studied on Y2O3, YSZ and ZrO2" (03)
- 11:00 – 11:30 General Discussion
- 11:30 – 12:30 **LUNCH**
- 13:00 – 17:00 Discussions
- 17:30 – 18:30 **DINNER**
- 18:30 – 19:00 **Bernhard Stöger**
"High chemical activity of Sr₃Ru₂O₇: Adsorption of CO, CO₂ and H₂O" (07)
- 19:00 – 19:30 **Stefan Gerhold**
"Water Adsorption at the Tetrahedral Titania Surface Layer of SrTiO₃(110)-(4×1): An STM and Photoemission Study" (07)
- 19:30 – 22:00 **Poster Session**

Wednesday, April 9th, 2013

- 07:30 – 08:30 **Breakfast**
- 08:30 – 09:00 **Oscar Gamba**
"Adsorption of Formic Acid on Fe₃O₄ (001) Surface" (07)
- 09:00 – 09:30 **Edvinas Navickas**
"Oxygen exchange and diffusion kinetics in grains and grain boundaries of La_{0.8}Sr_{0.2}MnO₃ thin films measured by Secondary Ion Mass Spectrometry" (09)
- 09:30 – 12:00 General Discussion – Project Planning
- 12:00 – 13:00 **LUNCH**
- 13:00 – 16:30 Discussions
- 17:00 – 18:30 **DINNER**
- 19:00 – 21:00 **General Assembly**

Thursday, April 10th, 2013

- 07:30 – 08:30 **Breakfast**
- 09:00 Bus transfer to Vienna, Karlsplatz (return ca. 12:00)

Posters:

Astrid Wolfbeisser/ Karin Föttinger (P 02):

"Characterization of Zirconia and Ceria-Zirconia bared CH₄ reforming catalysts"

Christoph Rameshan (P 02):

"Ni and Pd particles supported by ZrO₂ thinfilm – principle investigations"

Stefan Löffler (P 01):

"TEM investigation of PtRh nanoparticles on MgAl₂O₄"

Walid Hetaba (P 01):

"Analytical TEM investigation of Lanthanum Manganite (LSM) model electrodes"

Ramona Thalinger (P 03):

"LSF and TSF as novel supports for methanization and methane reforming catalysts"

Martin Datler (P 04):

"The role of the surface morphology in the CO oxidation reaction: Pd powder versus plane Pd(hkl) surfaces"

Sebastian Buhr (P 04):

"Towards field ion microscopy of zirconium oxide: first experimental attempts"

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

"Electrochemical properties of La_{0.6}Sr_{0.4}FeO_{3-δ} thin film electrodes under oxidizing and reducing conditions"

Edvinas Navickas (P 09):

"IN- AND ACROSS-PLANE CONDUCTIVITIES OF YSZ LAYERS OBTAINED FROM A SINGLE IMPEDANCE MEASUREMENT"

Zeynep Ergönenc (P 11):

"Electronic structure of La_xSr_{1-x}FeO_{3-y} compounds"

Marcel Hieckel (P 11):

"DFT calculations for water adsorption on a Sr₃Ru₂O₇(100) surface"