

International FOXSI Conference, May 15-17, 2017
TUtheSky Lounge, TU Vienna

Monday, May 15th, 2017

- 9:10 – 09:15 **Günther Rupprechter**
Welcome Address
- 09:15 – 10:15 **Sabine Maier** (University Erlangen-Nürnberg, DE) INV01
An atomic-scale view on the adoption and reaction of water and functionalized molecules
- 10:15 – 11:00 **COFFEE BREAK**
- 11:00 – 11:30 **Stijn Mertens** (TU Wien)
Electrochemical surface science of the boron nitride nanomesh
- 11:30 – 12:00 **Christoph Rameshan** (TU Wien)
In situ NAP-XPS on Oxides
- 12:00 – 13:30 **BREAK**
- 13:30 - 13:45 **Johannes Fröhlich** (Vice Rector of Research, TU Wien)
Welcome Address
- 13:45 – 14:45 **Jörg Libuda** (Friedrich-Alexander-Universitaet Erlangen-Nuernberg, DE) INV02
Model electrocatalysis: spectroelectrochemistry with complex model systems prepared in ultrahigh vacuum
- 14:45 – 15:15 **Noelia Barrabes** (TU Wien)
Reactivity and Stability of supported $Au_x(SR)_m$ clusters on oxides in gas and liquid phase reactions
- 15:45 – 16:30 **COFFEE BREAK (16:25 CONFERENCE PHOTOGRAPH)**
- 16:30 – 17:00 **Vedran Vonk** (Deutsches Elektronen-Synchrotron (DESY), DE)
Model Solid Oxide Fuel Cells studied by Interface X-ray Diffraction
- 17:00 – 17:30 **Martin Setvin** (TU Wien)
Cleaved Potassium Tantalate
- 19:00 – 22:00 **RECEPTION (Terrace 11th floor)**

Tuesday, May 16th, 2017

- 09:15 – 10:15 **Albert Tarancón Rubio** (Catalonia Institute for Energy Research-IREC, Spain) INV03
Towards a new generation of fully integrated in silicon solid state devices based on interface-dominated MIECs
- 10:15 – 11:00 **COFFEE BREAK**
- 11:00 – 11:30 **Alexander Opitz** (TU Wien)
On the surface chemistry of perovskite-type model electrodes: Gaining insights by in-situ spectroscopy and surface modification under electrochemical operation
- 11:30 – 12:00 **Florian Mittendorfer**
The chemical activity of perovskite surfaces - a DFT study
- 12:00 – 13:30 **BREAK**
- 13:30 – 14:30 **Catherine Dubourdieu** (HZB Helmholtz Zentrum Berlin, Germany) INV04
Monolithic integration of functional oxides on semiconductors
- 14:30 – 15:00 **Martin Datler** (TU Wien)
Guiding chemical waves through geometry: H₂ oxidation on Rh
- 15:00 – 15:30 **Johannes Zeininger** (TU Wien)
Imaging catalysis on a nanoscale: H₂ oxidation on Rh
- 15:30 – 16:15 **COFFEE BREAK**
- 16:15 – 16:45 **Alexander Schmid** (TU Wien)
The voltage and partial pressure dependent defect chemistry of (La,Sr)FeO₃ and its effect on oxygen exchange kinetics
- 16:45 – 17:15 **Michele Riva** (TU Wien)
18O exchange on SrTiO₃(110)
- 17:15 – 17:45 **Thomas Götsch** (University Innsbruck, AT)
A spectroscopic investigation of the electronic structure phase diagram of YSZ
- 19:00 – 22:00 **POSTER DISCUSSION (11th floor)**

Wednesday, May 17th, 2017

- 09:15 – 10:15 **Georg Madsen** (TU Wien, AT) INV05
DFT studies of the reactivity of defected surfaces
- 10:15 – 11:00 **COFFEE BREAK**
- 11:00 – 11:30 **Peter Lackner** (TU Wien)
Zirconia and oxidation of zirconium
- 11:30 – 12:00 **Wernfried Mayr-Schmölzer** (TU Wien)
Complex zirconia bulk phases: Structure and stability
- 12:00 – 13:30 **BREAK**
- 13:30 – 14:00 **Daniel Halwidl** (TU Wien)
Adsorption on Ruthenates
- 14:00 – 14:30 **Kresimir Anic** (TU Wien)
Cobalt Oxide Model Catalysts
- 14:30 – 15:00 **Karin Föttinger** (TU Wien)
Operando on technological Co-Oxide
- 15:00 – 15:30 **COFFEE BREAK**
- 15:30 – 16:00 **Wolfgang Wallisch** (TU Wien)
How does the CMR effect influence EELS in TEM ?
- 16:00 – 16:30 **Elin Granäs** (Deutsches Elektronen-Synchrotron (DESY), DE)
Structure and stability of the vicinal ZnO(10-14) surface
- 16:30 – 16:40 **CLOSING**

Poster Program

to be updated

Björn Arndt (Deutsches Elektronen-Synchrotron (DESY), DE)
Phase transition of the magnetite (001) surface at elevated temperatures

AG Rupprechter (TU Wien)
Nevzat Yigit
tba

Clara Garcia Yago
tba

AG Klötzer (Institut für Physikalische Chemie, Universität Innsbruck, AT)
Norbert Köpfle
Promotional Zr⁰-metal interactions in fuel reforming processes

AG Suchorski (TU Wien)
S. Buhr, J. Zeininger, M. Datler, C. Freytag, P. Winkler, G. Rupprechter and Y. Suchorski (TU Wien)
H₂ oxidation on Rh: Mapping the nm- and μm-sized reaction fronts

AG Schmid (TU Wien)
tba

AG Diebold (TU Wien)
Giada Franceschi, Michele Riva, Michael Schmid, and Ulrike Diebold (TU Wien)
First stages of growth of Sr_xLa_(1-x)MnO₃ on SrTiO₃(110) by PLD

AG Fleig (TU Wien)
Edvinas Navickas (TU Wien)
The role of humidity for tracer and electrochemical oxygen exchange kinetics on mixed conducting electrodes

Markus Kubicek (TU Wien)
Oxygen vacancies in fast lithium-ion conducting garnets

AG Redinger
Wernfried Mayr-Schmölzer, Florian Mittendorfer, Josef Redinger (TU Wien)
A charged O₂ superoxide on Ca₃Ru₂O₇(001)?