

GOSPEL Workshop on surface/adsorbed oxygen on metal oxides – role in gas sensing and catalysis

Hotel Stadt Tübingen, Germany
9-10 June 2008



Monday, 9 June

- 8:00 *Registration*
- 9:00 **N. Barsan**; University of Tübingen, Germany Welcome and introduction
- 9:15 **J. Haber**; Institute of Catalysis and Surface Chemistry PAS, Poland Reactivity of oxygen at interfaces
- 10:15 **J. Oviedo**; Sevilla University, Spain Crossing the gap between theory and experiments in gas sensors: the theorist view
- 11:15 *Coffee break*
- 11:45 **A. Gurlo**; Darmstadt University of Technology, Germany *In situ* and operando studies of catalytic and sensing reactions
- 13:00 *Lunch*
- 14:00 **N. Barsan**; University of Tübingen, Germany Role of chemisorbed oxygen for gas sensing with SnO₂ and WO₃: work function and IR measurements
- 15:00 **B. Hammer**; University of Aarhus, Denmark Oxygen chemisorption on reduced rutile TiO₂(110)
- 16:00 **G. Thornton**; University College London, United Kingdom The influence of co-adsorbed water on the interaction of O₂ with TiO₂(110)
- 17:00 **H. Over**; Justus Liebig University Giessen, Germany Stabilisation of RuO₂ against reducing reaction conditions
- 18:00 *Poster session*
- 20:30 *Dinner*

Tuesday, 10 June

- 9:00 **U. Diebold**; Tulane University, USA STM imaging of clean and adsorbate-covered metal oxide surfaces
- 10:00 **O. Diwald**; Vienna University of Technology, Austria Oxygen radicals and oxide nanocrystals
- 11:00 *Coffee break and poster discussion*
- 12:00 **P. Sautet**; Laboratoire de Chimie, Ecole Normale Supérieure, France Hydroxyl groups on metal oxides: structure, stability and function
- 13:00 **T. Sauerwald**; Justus Liebig University Giessen, Germany Polarisation effect in metal oxide sensors and relations to adsorbed surface species
- 14:00 *Lunch*
- 15:00 *End of the workshop*

GOSPEL Partners

University of Tübingen
AO Action
Karolinska Institute
University of Barcelona
ARMINES, St-Etienne
KTH, Stockholm
University of Bremen
CNR-IMM, Lecce & Rome
INRIA, Nancy
University of Linköping
CNRS, Dijon
Max-Planck-Institute, Heidelberg
University of Manchester
ETH Zürich
University of Padova
IMT, Neuchâtel
Silesian University of Technology
University of Pavia
IMTEK, University of Freiburg
University of Rome Tor Vergata
IPM-Fraunhofer, Freiburg
Umea University
VDI/VDE-IT GmbH

European Coordinator: Dr Udo Weimar

Institute of Physical Chemistry, University of Tübingen, Auf der Morgenstelle 15, D-72076 Tübingen, Germany
Ph: +49 7071 29 77636 Fax: +49 7071 29 5960 Email: gospel-ipc@ipc.uni-tuebingen.de
www.gospel-network.org

GOSPEL – General Olfaction and Sensing Projects on a European Level – is a Network of Excellence funded by the European Commission within the 6th Framework Programme. Contract No: IST-507610.

GOSPEL