



International Max Planck Research School

# Complex Surfaces in Material Science

*Introductory Block Course on*

## **"Synergism between Theory and Experiment: Case Studies"**

*April 02 - 04, and April 07 - 11, 2008*

*Franz-Fischer Gebäude der Technischen Universität Berlin  
Institute of Chemistry, Room TC 14 (Erdgeschoss)  
Straße des 17. Juni 124, 10623 Berlin (U Ernst-Reuter-Platz)*

*The course will focus on the interplay between theory and experiment highlighted by several case studies. The lectures will be presented by speakers from the Humboldt-Universität zu Berlin, the Technische Universität Berlin, the Fritz-Haber-Institut der MPG in Berlin and the University of Münster.*

***Open to all students, Ph.D. students, postdoctoral scientists and guests.  
Your are welcome to attend - no registration required!***

	9:00 – 10:30	11:00 – 12:30
<b>Wednesday</b> <b>02.04.2008</b>	H. Kuhlbeck (FHI) Electron spectroscopy on vanadia surfaces (experiment)	K. Hermann (FHI) Electron spectroscopy on vanadia surfaces (theory)
<b>Thursday</b> <b>03.04.2008</b>	S. Shaikhutdinov (FHI) Growth of thin SiO <sub>2</sub> films on metals (experiment)	M. Sierka (HU-Berlin) SiO <sub>2</sub> on Mo(112): theoretical analysis of the system
<b>Friday</b> <b>04.04.2008</b>	H. Winter (HU-Berlin) SiO <sub>2</sub> on Mo(112): structural characterization by ion beam methods	D. Su (FHI) TEM in catalysis: case studies
<b>Monday</b> <b>07.04.2008</b>	K. Horn (FHI) Electronic Structure of Carbon Materials (experiment)	J. Carlsson (FHI) Electronic Structure of Carbon Materials (theory)
<b>Tuesday</b> <b>08.04.2008</b>	K. Christmann (FU-Berlin) Oxygen on transition metal surfaces (experiment)	K. Reuter (FHI) Oxygen on transition metal surfaces (theory)
<b>Wednesday</b> <b>09.04.2008</b>	M. Lehmann (TU-Berlin) High-Resolution Transmission Electron Microscopy	K. Watanabe (FHI) Plasmons and photochemistry on supported metal nanoparticles
<b>Thursday</b> <b>10.04.2008</b>	A. Fielicke (FHI) Structure of clusters in the gas phase (experiment)	J. Döbler (HU-Berlin) Structure of clusters in the gas phase (theory)
<b>Friday</b> <b>11.04.2008</b>	H. Koller (Uni Münster) Solid State NMR of zeolites (experiment)	J. Sauer (HU-Berlin) Solid State NMR of zeolites (theory)



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