

# 2<sup>nd</sup> funCOS International Workshop Erlangen 2019



## DFG Research Unit FOR 1878 funCOS

### Functional Molecular Structures on Complex Oxide Surfaces

#### Location:

Friedrich-Alexander-Universität Erlangen-Nürnberg  
Schloss  
Schlossplatz 1 - 91054 Erlangen - Germany

#### Program

##### Sunday November 17

- 04:00 pm Registration  
05:00 pm Welcome and Introduction: Jörg Libuda (Erlangen, Germany)  
05:15 pm **Invited Talk – Ulrike Diebold (Vienna, Austria):**  
*SPM Studies of Molecules Adsorbed on Metal Oxide Surfaces*  
06:00 pm **Invited Talk – Ernst Meyer (Basel, Switzerland):**  
*Force Microscopy Experiments with Single Molecules*  
06:45 pm Reception and Buffet Dinner on site

##### Monday November 18

- 09:00 am **Invited Talk – Stacey Bent (Stanford, USA):**  
*Organic-Inorganic Hybrids at the Interface and in Ultrathin Films*  
09:45 am funCOS 1 – Alexander Schneider (Erlangen, Germany)  
*Porphyrins on Cobalt Oxide - an STM View on Adsorption and On-Surface Reactions*  
10:10 am Coffee break with posters  
10:35 am **Invited Talk – Oliver Hofmann (Graz, Austria):**  
*Charge-Transfer at Oxide/Organic Interfaces: The Role of Defects and Doping*  
11:20 am funCOS 2 – Ole Lytken (Erlangen, Germany):  
*Using Photoelectron Spectroscopy to Understand Covalent Anchoring in Vacuum and in Solution*  
11:45 am Buffet lunch on site with poster session  
01:15 pm **Invited Talk – Junfa Zhu (Heifei, China):**  
*On-Surface Chemistry: Versatile Strategies to Steer the Reactions*  
02:00 pm **Invited Talk – James Batteas (College Station, USA):**  
*Designing Porphyrin Molecular Assemblies from the Nanoscale to the Microscale*

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- 02:45 pm Coffee Break  
03:15 pm funCOS 3 – Jörg Libuda (Erlangen, Germany):  
*Anchoring Mechanisms on Oxide Surfaces in Ultrahigh Vacuum and in Liquid Electrolytes*  
03:40 pm **Invited Talk – Martin Sterrer (Graz, Austria):**  
*Control of Charge Transfer through Thin Dielectric Films*  
04:25 pm **Invited Talk – Katharina Franke (Berlin, Germany):**  
Single-Layer MoS<sub>2</sub> on Au(111) as Decoupling Layer for Molecules: Molecular Vibrations and Radicals  
05:10 pm Reception and Posters  
07:00 pm Dinner (Invited Speakers and Project Leaders)

## Tuesday November 19

- 09:00 am **Invited Talk – Gianfranco Pacchioni (Milan, Italy):**  
*Unraveling the Nature of Single Atom Catalysts*  
09:45 am funCOS 4 – Tobias Unruh (Erlangen, Germany):  
*Functionalization of Oxide Nanoparticles with Porphyrins*  
10:10 am Coffee break and posters  
10:40 am **Invited Talk – Piotr Cyganik (Kraków, Poland):**  
*Molecule-Substrate Interface Analysis by SIMS*  
11:25 am funCOS 5 – Manuela Killian (Erlangen, Germany)  
*Functional Molecular Coatings from Solution - Towards Complex Nanostructured Oxides*  
11:50 am Buffet lunch on site with poster session  
01:30 pm **Invited Talk – Gregory S. Rohrer (Pittsburgh, USA):**  
*Charged Domains on Complex Oxide Surfaces and their Influence on Photochemical Reactions*  
02:15 pm Short Coffee Break  
02:35 pm **Invited Talk – Federico Williams (Buenos Aires, Argentina):**  
*Attachment of Porphyrin Molecules to Self-Assembled Monolayers and Oxide Surfaces*  
03:20 pm funCOS 6 – Bernd Meyer (Erlangen, Germany)  
*Direct Assessment of the Proton Affinity of Individual Surface Hydroxyls with AFM and DFT*  
03:45 pm Closing Remarks  
04:00 pm End of the workshop

[www.funCOS.fau.de](http://www.funCOS.fau.de)

**Functional Landscaping at Organic Oxide Interfaces**