

# Seminar Schedule "Physical Organic & Supramolecular Chemistry"

## Summer Term 2016

**Thursday, May 12, 2016**

***Singlet Oxygen***

Jingjing Gao

***Cytochrome P-450: two-state-reactivity as a new mechanistic paradigm***

Yunfei Zhou / Haruki Saito Wu

***Reaction Dynamics of Reactive Intermediates: Synergy of Theory and Experiment***

Paul Richter

***High-Pressure Chemistry: Activation Volumes***

Ivan Ilic

**Thursday, May 19, 2016**

***Non-classical Cations, Superacids, Superelectrophiles***

Patrick Voßnacker / Tobias Bens

***Stable Carbenes***

Jan Joswig / Sabrina Weihe

***Square-planar Carbon***

Andrew Walter

***Fullerenes, Carbon Nanotubes and Graphene***

Birte Gruber

**Thursday, May 26, 2016**

***Femtosecond Spectroscopy***

Anja Gründler

**Thursday, June 2, 2016**

***Evidence for Short-Lived Intermediates from Neutralization-Reionization Mass Spectrometry***

Kai Sonderhoff

***Evidence for Short-Lived Intermediates from Matrix-Isolation Spectroscopy***

Stefanie Kieninger / Marlon Winter

***Origin of Homochirality***

Tyler Gully

***Non-Linear Effects in Asymmetric Catalysis***

Constantin Stuckhardt

***Topological Chirality***

Michael Jakob

***Chiroptical Methods***

Peleg Bar-Sapir

***Three Dimensional Aromaticity***

Felix Witte / Merlin Kleoff

***Woodward Hoffmann Rules: Correlation Diagrams for Electrocyclic Ring Opening Reactions***

Kajsa Lood / Milena Perovic

**Thursday, June 9, 2016**

***Reactions with Coarctate Transition Structures***

Kurt Hoffmann / Patrick Pröhm

***Describing Catalysis by Michaelis-Menten Kinetics***

Konstantin Simon / Lisa-Marie Eschner

***Organocatalysis***

Anna Timofeeva / Jennifer Anders

***Perfluorinated Solvents***

Lars Hoffmann / Sven Helle

**Thursday, June 16, 2016**

***The Discovery of Crown Ethers***

Quan Wang

***Templated Synthesis: Catenanes, Rotaxanes, molecular Knots***

Corinna Saar

**Molecular Sensors**

Antonia Herzog / Maximilian Roca Jungfer

**Thursday, June 23, 2016****Self-Assembly and Self-Organization: Creating Complexity from Simple Building Blocks**

Frederik Bader / Vico Adjedje

**Multivalency and Cooperativity**

Tejmaya Basnetchetri

**Mesoscale Self-Assembly**

Shu Wang / Dengkun Wang

**Thursday, June 30, 2016****Self-Sorting**

Meghna Dabur / Yogita Joshi

**Molecular Recognition of Anions**

Bence Hartmayer

**Fluorescent Resonance Energy Transfer (FRET)**

Jeroen Goedhart

**Thursday, July 7, 2016****Container Molecules, Molecular Capsules and Molecular Tennis Balls**

Jonathan Schneider

**Origin of Life: Self-Replication and Autocatalysis?**

Richard Pilz

**Molecular Machines**

Ahed Almalla

**Thursday, July 14, 2016****Switchable Rotaxanes on Surfaces**

Sarah Kastner

**Europium- and Terbium-Containing Luminescent Complexes: Replacement for Radioimmunoassays?**

Philipp Bohr

***Catalytic Antibodies***

Antreas Vorkas

***Helix Bundles: Mechanism of Protein Folding***

Björn Harms

***Thursday, July 21, 2016***

***Aquaporins and Ion Pumps***

Ekaterini Kalaitzis / Brian Sachini

***Artificial Photosynthesis***

Suzan de Almeida Dias Miranda

***Reinventing Chemistry***

Oliver Etzold