

Schedule for Seminar Talks in "Physical Organic Chemistry and Supramolecular Chemistry"

Part I: Potential Energy Surfaces and Molecular Orbitals

Thursday 5.5.2011: *Singlet Oxygen*

Name: Marian Reupke

Tutor: *Johannes Poppenberg*

Thursday 5.5.2011: *Cytochrome P-450: two-state-reactivity as a new mechanistic paradigm*

Name: Christoph Schalley

Thursday 5.5.2011: *Reaction Dynamics of Reactive Intermediates: Synergy of Theory and Experiment*

Name: Volker Schmiedel

Tutor: *Christoph Schalley*

Part II: Thermochemistry

Thursday 12.5.2011: *High-Pressure Chemistry: What do Activation Volumes Tell?*

Name: Enrico Miceli

Tutor: *Sebastian Richter*

Part III: Short-Lived Intermediates and Funny Molecules

Thursday 12.5.2011: *Non-classical Cations*

Name: Felix Limberg

Tutor: *Johannes Poppenberg*

Thursday 12.5.2011: *Superacids and Superelectrophiles*

Name: Jaesung Jung

Tutor: *Sebastian Richter*

Thursday 12.5.2011: *Stabile Carbene*

Name: David Komáromy

Tutor: *Sebastian Richter*

Thursday 12.5.2011: *Fullerenes*

Name: Sabrina Wesche

Tutor: *Johannes Poppenberg*

Thursday 19.5.2011: *Square-planar Carbon*

Name: Dominik Lenz

Tutor: *Sebastian Richter*

Thursday 19.5.2011: *Evidence for Short-Lived Intermediates from Neutralization-Reionization Mass Spectrometry*

Name: Larissa von Krbek

Tutor: *Christoph Schalley*

Thursday 19.5.2011: *Evidence for Short-Lived Intermediates from Matrix-Isolation Spectroscopy*

Name: Paul Kubella

Tutor: *Sebastian Richter*

Part IV: Stereochemistry

Thursday 19.5.2011: Origin of Chirality

Name: Madlen Schmudde

Tutor: *Johannes Poppenberg*

Thursday 26.5.2011: Non-Linear Effects in Asymmetric Catalysis

Name: Lars Selter

Tutor: *Christoph Schalley*

Thursday 26.5.2011: Topological Chirality

Name: Melanie Göth

Tutor: *Sebastian Richter*

Thursday 26.5.2011: Chiroptical Methods

Name: Katharina Huth

Tutor: *Johannes Poppenberg*

Part V: Aromaticity and Pericyclic Reactions

Thursday 26.5.2011: Reactions with Coarctate Transition Structures

Name: Meryem Sezgin

Tutor: *Johannes Poppenberg*

Thursday 9.6.2011: Three Dimensional Aromaticity

Name: Jan Hormann

Tutor: *Sebastian Richter*

Thursday 9.6.2011: Woodward Hoffmann Rules: Correlation Diagrams for Electrocyclic Ring Opening Reactions

Name: Christian Goroncy

Tutor: *Christoph Schalley*

Part VI: A Few Concepts Relating to Synthesis

Thursday 9.6.2011: Umpolung

Name: Mohammed Amin

Tutor: *Sebastian Richter*

Thursday 9.6.2011: Describing Catalysis by Michaelis-Menten Kinetics

Name: Sinaida Lel

Tutor: *Sebastian Richter*

Thursday 16.6.2011: Organocatalysis

Name: Julian Sklorz

Tutor: *Johannes Poppenberg*

Thursday 16.6.2011: Modern Radical Reactions

Name: Christian Grunewald

Tutor: *Sebastian Richter*

Thursday 16.6.2011: Modern Photochemistry

Name: Sebastian Anders

Tutor: *Johannes Poppenberg*

Part VII: Solvent Effects

Thursday 16.6.2011: Perfluorinated Solvents

Name: Timon Scheuchner

Tutor: Sebastian Richter

Part VIII: Supramolecular Synthesis

Thursday 23.6.2011: Templated Synthesis: Crown Ethers, Catenanes, Rotaxanes, molecular Knots

Name: Sissy Lorenz

Tutor: Johannes Poppenberg

Thursday 23.6.2011: Self-Assembly and Self-Organization: Creating Complexity from Simple Building Blocks

Name: Thomas Heinrich

Tutor: Christoph Schalley

Thursday 23.6.2011: Mesoscale Self-Assembly

Name: Sabine Reimann

Tutor: Christoph Schalley

Thursday 23.6.2011: Self-Sorting

Name: Heinrich Hupatz

Tutor: Christoph Schalley

Thursday 30.6.2011: Multivalent Binding

Name: Hendrik Ronneburg

Tutor: Sebastian Richter

Part IX: Molecules with Function

Thursday 30.6.2011: Molecular Recognition of Anions

Name: Olaf Nachtigall

Tutor: Sebastian Richter

Thursday 30.6.2011: Fluorescent Resonance Energy Transfer (FRET)

Name: Daniel Ziemens

Tutor: Johannes Poppenberg

Thursday 30.6.2011: Sensors

Name: Daniel Burow

Tutor: Johannes Poppenberg

Thursday 7.7.2011: Container Molecules, Molecular Capsules and Molecular Tennis Balls

Name: Felix Schwarz

Tutor: Christoph Schalley

Thursday 7.7.2011: Origin of Life: Self-Replication and Autocatalysis?

Name: Kay-M. Oetter

Tutor: Johannes Poppenberg

Thursday 7.7.2011: Molecular Machines

Name: Antti Senf

Tutor: Sebastian Richter

Thursday 7.7.2011: Europium- and Terbium-Containing Luminescent Complexes: Replacement for Radioimmunoassays?

Name: Felix Führer

Tutor: *Johannes Poppenberg*

Part X: Bioorganic-Chemistry-Related Topics

Thursday 14.7.2011: Catalytic Antibodies

Name: Simon Poremski

Tutor: *Christoph Schalley*

Thursday 14.7.2011: Helix Bundles: Mechanism of Protein Folding

Name: Johannes Ullrich

Tutor: *Sebastian Richter*

Thursday 14.7.2011: Aquaporins and Ion Pumps

Name: Sandra Mierschink

Tutor: *Johannes Poppenberg*

Thursday 14.7.2011: Artificial Photosynthesis

Name: Katrin Schulz

Tutor: *Christoph Schalley*

*Johannes Poppenberg, Sebastian Richter: Labor 32.01
Christoph Schalley: Raum 32.05*