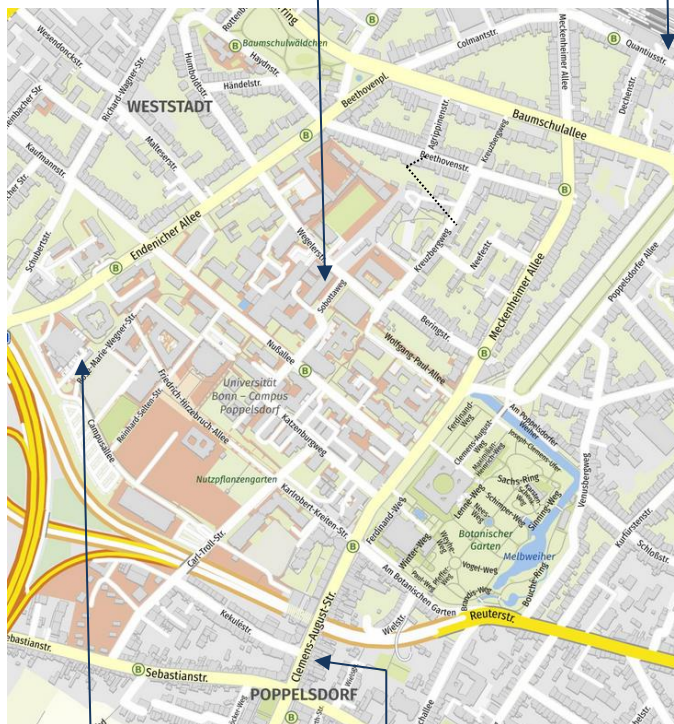


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Bonn International Graduate
School of Chemistry

Spokesperson:
Prof. Dr. Andreas Gansäuer

BIGS Chemistry Summer School 2023 September 4-5, 2023

Venue: Lecture Hall, Clausius Institute for Physical and
Theoretical Chemistry, Wegelerstr. 12, 53115 Bonn



Host:
Prof. Dr. Andreas Gansäuer

Coordinator:
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**Monday, September 4, 2023**

- 9:00 **Alexandria Deliz Liang (Invited lecture):** Studying and Engineering Metalloenzymes with Non-Canonical Amino Acid Incorporation
- 10:30 **Lidón Pruñonosa Lara:** Controlled light induced switching of Co(II) coordination cage structures
- 10:50 *Coffee break*
- 11:20 **Sebastian Höthker:** Stereoconvergent Allylation of Epoxides towards Enantioselective Construction of All-Carbon Quaternary Stereogenic Centers
- 11:40 **Tatjana Terschüren:** Synthesis and reactivity of rigid, planar and bent P-bridged bis(NHCs)
- 12:30 *Lunch at Campo*
- 14:30 **Alexandria Deliz Liang (Tutorial):** Protein modification with non-canonical amino acids (ncAAs)
- 16:00 **Max Schönenbroicher:** Progress towards the Total Synthesis of Vancoresmycin
- 16:20 **Michelle Mahler:** Rational design of a multimeric model hemoenzyme towards adaptable redox catalysis
- 16:40 *Coffee break*
- 17:10 **Jonas Streeck:** Synthesis of a triple-stranded conjugated ladder polymer
- 17:30 **Regine Mika:** Mechanism-controlled Stereodiversification in the Synthesis of 1,3-Diols with Stereotriads

18:30 *Dinner at Meyers*
Clemens-August-Str. 51a, 53115 Bonn

Tuesday, September 5, 2023

- 9:00 **Ulla Gerling-Driessen (Invited lecture):** New modalities to decipher aberrant protein glycosylation in diseases
- 10:30 **Simon Rickert:** Phenanthracene Nanotubes for Explosive Detection
- 10:50 *Coffee break*
- 11:20 **Lena Harings:** Synthesis of a supramolecular catalyst (M_8L_6 assembly)
- 11:40 **Clemens Maurer:** C–H Borylation of (η^6 -Arene)Cr(CO)₃ Complexes: Reactivity Switch Induced by the Chromium Tripod
- 12:30 *Lunch at Campo*
- 14:30 **Ulla Gerling-Driessen (Tutorial):** Synthesis of next-generation bioorthogonal probes for multi-modal glycoprotein analysis
- 16:00 **Frank Pilz:** Interrogating electrochemical approaches for the determination of electron transfer rates of immobilized redox proteins
- 16:20 **Niklas Schmickler:** A radical attack on the Boc protecting group
- 16:40 *Coffee break*
- 17:10 **Alina Hilgers:** A new monomer for donor-acceptor Ladder Polymers
- 17:30 **Andreas Hamm:** Synthesis new of bioactive copolymers
- 17:50 **Dominik Brajtenbach:** Spatio-temporal analysis of the impact of antibiotics on *Staphylococcus aureus*' cell wall biosynthesis and cell division

18:20 **Poster session, beer and pretzels**