

Sommersemester 2018

Titel

**Alkali Metal Mediation in Synergistic
Synthesis and Homogeneous Catalysis**

Vortragender

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Abstract

Alkali metals have played a seminal role in the development of synthetic chemistry for a century often in the form of organolithium reagents. If these are classified as first generation metallating agents, a second generation is emerging where partnering the alkali metal with a second metal such as magnesium or zinc can create bimetallic cooperativities that lead to reactivities and selectivities beyond the scope of unimetallic systems. This talk will demonstrate examples where two metal partners work together in template structures to effect novel metallations of aromatic substrates.

The concept of *trans-metal-trapping*, where lithium bases work in tandem with aluminium or gallium organometallic compounds (the traps) to enhance metallation efficiencies and aid stabilisation of the often hypersensitive metallated intermediates produced during these reactions, will also be introduced.

The extension of this bimetallic cooperativity theme from stoichiometric systems to the catalytic regime will also be included, focusing on examples in hydroelementation catalysis.

Ort

Chemie HS 1 – Campus Nord, Otto-Hahn-Straße 6
Anfahrt: <http://gdch.chemie.uni-dortmund.de>

Zeit

Montag, 04.06.2018, 17.15 Uhr

Meet the Prof. für Studierende im Anschluss an den Vortrag

gez. Professor Dr. Daniel Rauh
Gesellschaft Deutscher Chemiker
Ortsverband Dortmund