

UniCat Colloquium

PROF. DR. WILLIAM D. JONES

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Why Do Weaker Metal-Carbon Bonds Lead to More Stable Complexes? What's Going On?

Over the past 20 years substantial progress has been made in the understanding of the activation of C-H and other strong bonds by reactive metal complexes in low oxidation states. This talk will present an overview of the use of pentamethylcyclopentadienyl and trispyrazolylborate rhodium complexes for the determination of thermodynamic factors that influence the activation of arene and alkane C-H bonds. Insights into bond strengths, kinetic and thermodynamic selectivities, and the nature of the intermediates involved will be examined. The influence of substituent effects on the thermodynamics of bond activations will also be analyzed. Trends in the effects of ligand donor strength on C-H activation will be examined. Recent work in acceptorless dehydrogenation reactions will also be presented. A novel route for conversion of ethanol to butanol will also be presented.

Wednesday, June 13, 2018 at 5:15 PM

TU Berlin, Institute of Chemistry
Straße des 17. Juni 115, 10623 Berlin

Building C, Lecture Hall **C 264**

Prof. Dr. Oestreich (TUB)
Organizer

Coffee and cake will be served 30 minutes before the lecture. Guests are cordially invited to attend!
Prof. Dr. Matthias Driess - Chair of the Cluster of Excellence UniCat - www.unicat.tu-berlin.de



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