

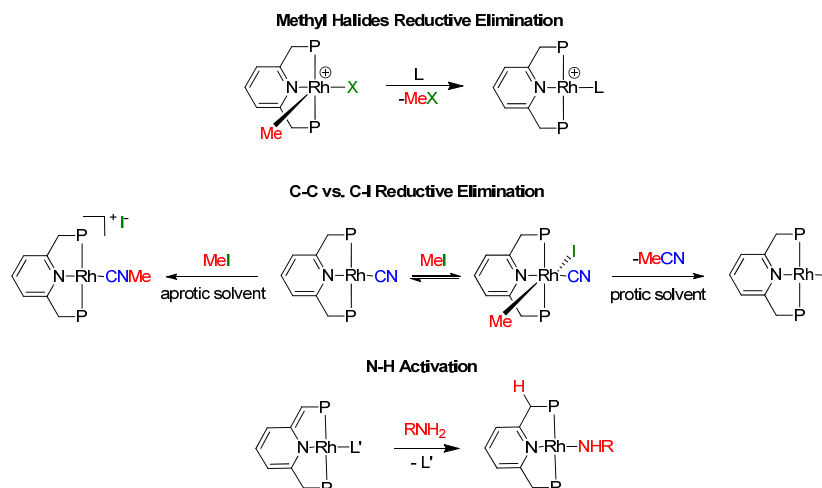
UniCat Seminar

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Lecturer: **Dr. Moran Feller, Assistant Staff Scientist, Milstein group, Organic Chemistry Department, Weizmann Institute of Science, Rehovot, Israel**

Title: **Unique Reactivity of Phosphino Pyridine Pincer-Type Rhodium Complexes**

Abstract: Late transition metal complexes of electron donating and bulky "pincer" ligands have found important applications in synthesis, bond activation and catalysis. The pincer ^tBu-PNP ligand (2,6-bis-(di-*tert*-butylphosphinomethyl)pyridine) exhibits unique properties as a highly electron donating ligand with bulky *tert*-butyl substituents on the phosphines "arms", a relatively low *trans* influence of the pyridinic nitrogen, and acidic benzylic "arms", which allowed us to explore unique and rare organometallic chemistry with late transition metals. In this talk, examples of the reactivity of PNP-rhodium complexes will be presented, such as a rare example of directly observed reductive elimination of methyl halides and competitive C-C vs. C-I reductive elimination, in which selectivity of the reaction is controlled by the solvent. In addition a rare example of N-H activation via metal-ligand cooperation will be presented.



Date: **Wednesday, May 29th, 2013 at 5:15 pm til 6:45 pm**

Location: **TU Berlin, Gerhard Ertl Center, Marchstr. 6, 10587 Berlin, Building BEL, Meeting Room BEL 301**

Organizer: **Prof. Matthias Driess (TUB)**

Coffee and tea will be served thirty minutes prior to the lecture start.
Guests are cordially invited to attend!

Prof. Dr. Matthias Driess, Chair of the Cluster of Excellence UniCat