

UniCat Colloquium

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Lecturer: **Prof. Dr. Paul Knochel**, Department of Chemistry,
Ludwig-Maximilians-University, Munich, Germany

Title: **Preparation of Polyfunctionalized Organometallics
and Stereoselective Cross-Couplings**

Abstract: New general methods for the preparation of functionalized organometallics will be described. The first preparations involve a direct metal insertion, whereas the second method involves a directed metalation. A range of new TMP-bases of Mg, Zn, Mn, Fe, La and Al have been prepared for the regioselective metalation of various aromatic and heterocyclic compounds providing polyfunctional organometallics. These highly functionalized organometallics react with a range of electrophiles and undergo especially mild cross-couplings. New BF₃-promoted metalations allow a new access to polyfunctional pyridines. Applications to the synthesis of bioactive molecules and material precursors via new cross-coupling reactions will also be shown.

Date: **Wednesday, 8 June 2011**

Time: **5:15 pm - around 6:45 pm**

Location: **TU Berlin
Institute of Chemistry
Straße des 17. Juni 115
10623 Berlin
Building C
Lecture Hall C 243**

Organiser: **Prof. Helmut Schwarz (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