



Univerzita Karlova v Praze, Přírodovědecká fakulta

Katedra organické a jaderné chemie
zve všechny zájemce na přednášku z cyklu

Quo Vadis Chemie

CONTROLLED CROSS-COUPLING REACTIONS UNDER Fe-CATALYSIS: NEW MECHANISM, REACTIVITY AND SELECTIVITY



kterou přednese

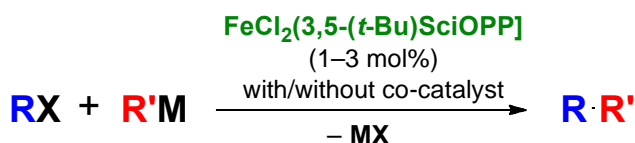
Prof. Masaharu Nakamura

Institute for Chemical Research (ICR), Kyoto
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dne 7.10. 2010 v 14:00 hod.
v posluchárně CH2, v budově chemických kateder PŘF UK
Hlavova 8, Praha 2

Abstrakt:

*Iron-catalyzed cross-coupling reactions have been studied intensively in recent years. This is due to the iron's high reactivity and unique selectivity for the coupling of alkyl halides, which are very often superior to those of the conventional Pd and Ni catalysts. We have designed and developed novel iron-phosphine complexes possessing a bulky o-phenylenebisphosphine such as **1** that have proven effective for selective coupling of alkyl halides with various organomagnesium, zinc, aluminum and boron reagents.*



RX: primary, secondary, (tertiary) alkyl halides
R'M: organomagnesium, zinc, aluminum, boron reagents

