



Sekce chemie PŘF UK v Praze
zve všechny zájemce na přednášku z cyklu

Quo Vadis Chemie

New Stories from Old Friends: CO Activation with Diaminocarbenes and Betains as Masked Carbenes

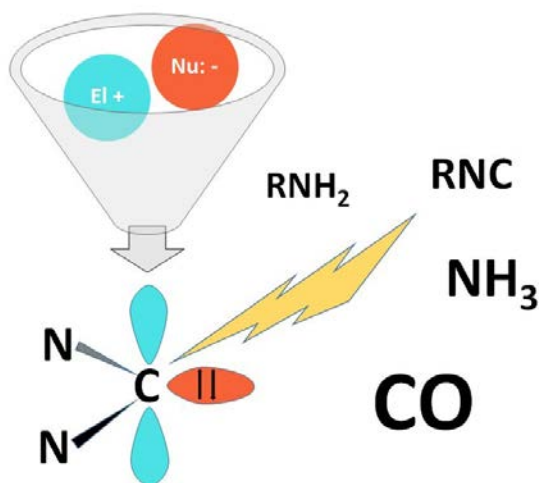


kterou přednese

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dne 31. 3. 2014 ve 14:00 hod.
v posluchárně CH2, v budově chemických kateder PŘF UK
Hlavova 8, Praha 2



Since their discovery by Arduengo in 1991, N-heterocyclic carbenes (NHCs) have become extremely useful and popular as organocatalysts or as ligands for transition-metal catalyzed reactions. NHCs are stable singlet carbenes and show an increased σ -electron donor ability compared to phosphine ligands. The talk will work out that diaminocarbenes have been much underestimated: we will present the reactivity of a ferrocene-based NHC and of simple acyclic diaminocarbenes towards small molecules leading to unexpected products. A second part of the talk will deal with a revolutionized concept of carbene synthesis showing that it is

possible to apply easily available imidazolium or triazolium based zwitterionic compounds as masked carbenes. These betaines exist in solution in equilibrium with their carbenic tautomers and thus provide free carbenes for typical carbene-like reactivity.