



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

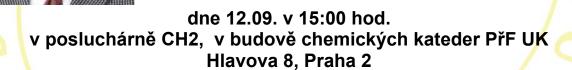
Quo Vadis Chemie

C-H Functionalization Utilizing New Chelation System

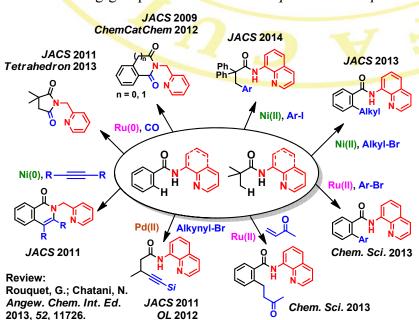
kterou přednese

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Abstrakt: The catalytic functionalization of C-H bonds assisted by directing groups has developed rapidly in recent years However, in spite of the tremendous progress made to date, the design of new types of directing groups continues to be challenging, in terms of exploring novel types of functionalizations of C-H bonds that cannot be achieved when common directing groups are used. 8-Aminoquinoline and picolinamide is a powerful directing group



for C(sp³)-H bond arylation using Pd(OAc)₂ as a catalyst. A number of functionalizations of C-H bonds have subsequently been developed using similar chelation systems by various research groups. However, most of the examples reported so far involve the use of Pd(II) as a catalyst. Herein, I wish to report on some new functionalizations of C-H bonds in which *N*,*N*-bidentate directing groups, such as pyridynylmethylamine and aminoquinoline are used in the presence transition complexes other than palladium.