

Pozvánka  
na přednášku

**KATEDRA ANORGANICKÉ CHEMIE**

Přírodovědecká fakulta UK v Praze

si Vás dovoluje pozvat na přednášku z cyklu *Quo Vadis Chemie*

*Coordination of heavy d- and f-block cations by  
microbial and bioinspired iron chelators: what can  
we learn from speciation and kinetic studies?*

Přednášející:

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**Abstrakt:** Migration and bioavailability of toxic metals in contaminated soils are highly dependent upon the presence of organic ligands. Excreted by most bacteria and some yeasts to supply them with iron(III), siderophores have recently been shown to form stable complexes with various actinides and to efficiently mediate plutonium uptake by several bacterial strains. Our aim is to investigate the aqueous mediacoordination chemistry of selected *d*- (Zr, Hf) and *f*-elements (U, Am, lanthanides), with environmentally-relevant and widespread chelators, namely hydroxamic siderophores. Abiotic analogs, including a calixarene-based tetrapod designed for the specific uptake of tetravalent cations, will also be discussed.

**Přednáška se bude konat 18. listopadu 2014 (úterý) v 12:20  
v posluchárně CH-3, budova chemických kateder PŘF UK v Praze.**