

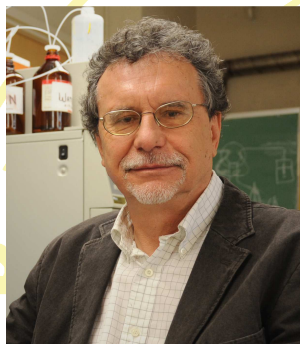


Univerzita Karlova v Praze, Přírodovědecká fakulta

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

Quo Vadis Chemie

Expeditious Access to Heterocyclic Diversity on Solid Phase

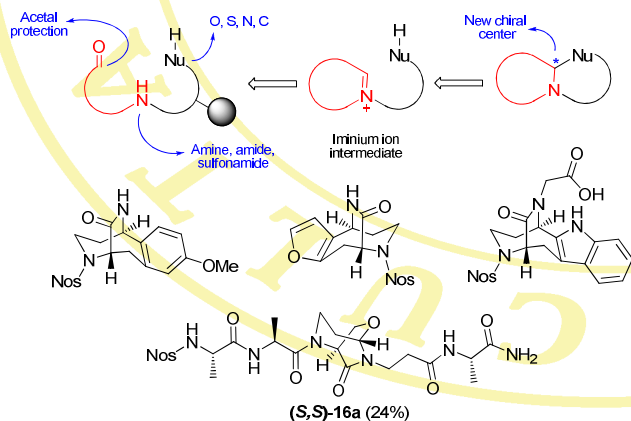


kterou přednese

Profesor Viktor Krchňák

University of Notre Dame, Notre Dame, IN 46556 and Palacký
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dne 8.6. v 15:00 hod.
v posluchárně CH2, v budově chemických kateder PŘF UK
Hlavova 8, Praha 2



Abstrakt: Our ongoing research is focused on the design and synthesis of compound collections with structural features largely missing in traditional compound decks. We developed efficient synthetic routes leading to fused and bridged ring systems with 3D topography and formation of asymmetric carbons with full stereochemistry. To cover a diverse set of heterocyclic frameworks and at the same time to make syntheses efficient and expeditious, we assembled diverse and structurally unrelated

heterocycles from common solid-supported intermediates. This strategy allows efficient preparation of compounds with different frameworks and skeletal dissimilarity.

Our approach will be documented on syntheses of heterocyclic compounds using two unrelated chemical transformations: (i) *N*-acyliminium ion cyclization – nucleophilic addition and (ii) C/N-arylation via benzenesulfonamides. Syntheses comprised variety of chemistries (C-C, C=C, C-N, C=N, C-O bond formations) and different sizes of heterocycles (5- to 9-membered rings)

