

Green Chemistry Seminar



Tuesday, December 4, 2012, 13h00:
Otto Maass 10

Everyone is Welcome

Dr. Laurel Schafer

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N,O-Chelated Early Transition Metals in Catalysis. New Approaches for the Synthesis of Organic Small Molecules and Functional Materials

Amidate, ureate and pyridonate ligands are *N,O*-chelates ideally suited for complexing hard metal centers, such as Ti, Zr and Ta. Importantly, these hemi-labile ligands have been shown to promote unique reactivity in hydroamination, hydroaminoalkylation and ring-opening polymerization. Recent advances in the development of more reactive and broadly applicable catalytic methods for selective amine and *N*-heterocycle synthesis will be presented. Extension of the application of this family of complexes toward the synthesis of biodegradable co-polymers as new materials with potential applications in drug delivery will also be discussed

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Chemistry and
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