

UniCat Colloquium

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Lecturer: **Prof. Miquel À. Pericàs**, Director of the Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain

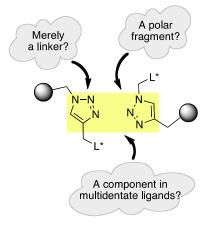
Title:

Asymmetric catalysis with supported systems: Towards the development of continuous flow processes

Abstract:

The design and preparation of immobilized catalysts that keep intact the characteristics (activity and selectivity) of their homogeneous counterparts represents a major goal in view of more efficient chemical production. When enantioselective processes are considered, the opportunities offered by this approach (recovery and reuse of expensive catalytic species, highly simplified work-up, implementation of continuous flow processing) become even more evident.

In this lecture we will present different strategies followed in our laboratory for the modification of homogeneous ligands and catalysts, in order to make possible its supporting, and for the supporting process, with special emphasis on the use of the copper-catalyzed alkyne-azide cycloaddition (CuAAC) as a supporting strategy.^[1] The role of the triazole unit present in the resulting systems in different examples of metal-catalyzed and organo-catalyzed reactions will be discussed.



Examples of polymer-supported, highly active catalytic systems that have allowed implementation of single-pass, continuous flow processes will be presented, and the possible sources of catalyst deactivation (a key issue when industrial application is considered) will be discussed.

Date: Friday, 20 May 2011

Time: **5:15 pm - around 6:45 pm**

Location: TU Berlin, Institute of Chemistry, Straße des 17. Juni 115, 10623 Berlin Building C, Lecture Hall C 243

Organiser: Prof. Siegfried Blechert (TUB)

Coffee and tea will be served thirty minutes prior to the lecture start. Guests are cordially invited to attend!

Prof. Dr. Matthias Driess, Chair of the Cluster of Excellence UniCat