

UniCat Colloquium

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- Lecturer: **Prof. Thomas Wirth**, Cardiff School of Chemistry,
Organic Chemistry, Cardiff University, UK
- Title: **Advanced Concepts for Catalysis in Synthesis and
Flow Chemistry**
- Abstract: The development of catalytic reactions based on stoichiometric reactions using selenium- and iodine-based reagents will be discussed. Novel chiral reagents and catalysts allow the easy synthesis of versatile scaffolds as synthetic building blocks as well as applications towards natural product synthesis.
The contact between immiscible liquids in a microfluidic system creating segmented flow offers great potential in the study of biphasic reactions in organic chemistry with significant advantages with respect to conventional flask techniques. This can dramatically increase the reaction rate, especially when microwave irradiation, sonication or phase transfer catalysis are combined with segmentation. Metal-catalyzed sequences can also be performed advantageously in biphasic systems. Chemistry with hazardous chemicals, the synthesis of radiopharmaceuticals and the development of a microreactor for electrochemistry will be discussed.
- Date: **Wednesday, October 26, 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