

UniCat Colloquium

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Lecturer: **Prof. David Avnir**, Institute of Chemistry, the Hebrew University, Jerusalem, Israel

Title: ***Catalysis, biocatalysis and bioactivity with organically and bio-organically doped metals***

Abstract: We developed a new materials technology, which enables one to incorporate and entrap small organic molecules, polymers, bioactive molecules and proteins, within metals. New materials, denoted dopant@metal, are formed. This type of materials has been unknown a decade ago. So far we have developed methods for doping silver, copper, gold, magnetic cobalt, iron, platinum, palladium as well as alloys of these metals.

A variety of useful applications have been demonstrated, and this lecture will focus mainly on the formation of new metallic catalysts (such as metals doped with organometallic complexes), on the formation of bioactive metals by enzymes entrapment, on the induction of chirality within metals by the doping with biomolecules, and on the formation of efficient therapeutic doped metals.

Date: **Wednesday, January 30th, 2013**

Time: **5:15 pm**

Location: **TU Berlin
Institute of Chemistry
Straße des 17. Juni 115
10623 Berlin
Building C
Lecture Hall C 264**

Organizer: **Prof. Matthias Drieß (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