unicat
Unifying Concepts in Catalysis

UniCat Colloquium

HUGH KEARNS

Flinders University, South Australia

Characteristics of successful doctoral candidates and their supervisors: comparing international practices and outcome

My presentation will focus on our group's endeavor to control ground-state reactivity by light using stoichiometric and catalytic approaches. Recently, we have successfully been developing photoswitchable systems that engage in dynamic covalent chemistry and allow us to influence and even shift thermal equilibria by light. Based on these photocontrolled dynamic covalent systems, we have demonstrated the ability to influence the degree and dynamics of covalent crosslinking in polymeric materials and thereby control the intrinsic self-healing as well as thermal healing properties. In my presentation, the underlaying fundamental principles will be analyzed from a mechanistic perspective and implications for energy-efficient chemistry will be discussed, in particular in the context of our ongoing quest to drive thermally unfavorable synthetic transformations by light.

Wednesday, June 14, 2017 at 5:15 PM
TU Berlin, Institute of Chemistry
Straße des 17. Juni 115, 10623 Berlin

Building C, Lecture Hall **C 264**

Dr. Lonjaret (BIG-NSE)
Organizer

Coffee and cake will be served 30 minutes before the lecture. Guests are cordially invited to attend!
Prof. Dr. Matthias Driess - Chair of the Cluster of Excellence UniCat - www.unicat.tu-berlin.de