unicat
Unifying Concepts in Catalysis

UniCat Colloquium

PROF. DR. JOSEPH S. FRANCISCO

University of Nebraska-Lincoln

From Atmospheric Complexes to Aerosols: New Insights into Atmospheric Chemistry

The chemistry in our atmosphere governs phenomena such as ozone depletion, acid rain, and climate change. Having a firm understanding of all chemical processes at the molecular level in the atmosphere will allow for the development of accurate global climate models. This talk will discuss some of the more traditional chemical reactions that occur in the atmosphere, and how water influences both the mechanism and kinetic of atmospheric reactions. How gas-phase materials become incorporated with cloud droplets has been an intriguing subject for decades, and considerable work has been done to understand the interactions between closed-shell molecules and liquid water. The interactions between radical species and the air/water interface of cloud droplets, however, are not well understood. Fundamental structure and interactions of radical-molecules are critical to understanding binding, the configuration, and orientation of radicals the interface. This has important ramifications for our understanding of radical chemistry and lends new insight into the role that clouds and aerosols play in processing chemistry in the atmosphere.

Wednesday, November 14, 2018 at 5:15 PM
TU Berlin, Institute of Chemistry
Straße des 17. Juni 115, 10623 Berlin

Building C, Lecture Hall **C 264**

Prof. Dr. Schwarz (TUB)
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