

**Tackling Challenges in Industrially Relevant Homogeneous Catalysis:  
The Catalysis Research Laboratory (CaRLa), an Industrial–Academic Partnership**

Thomas Schaub

BASF SE, Ludwigshafen, Germany

Industrial-academic collaborations are broadly used for the development of new industrial processes. To achieve a strong and deep collaboration in the field of homogenous catalysis, BASF and the University of Heidelberg have been running the Catalysis Research Laboratory (CaRLa) together in Heidelberg since 2006. This lecture highlights the concept of this laboratory and our experiences over the last few years in this joint laboratory. How this collaboration works is explained in more detail using three selected projects: sodium acrylate based on CO<sub>2</sub>, the selective decomposition of cyclohexylhydroperoxide to cyclohexanone and the asymmetric amination of ketones with NH<sub>3</sub>/H<sub>2</sub>