

***Biomimetic and Bioinspired Complexes For The  
Functional Modeling of Oxygenases***

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**Thursday 7th March, 2013. ICIQ Auditorium, 12 p.m.**

**Professional career**



Christian Limberg was born in 1965 in Essen and studied Chemistry from 1985 until 1990 in Bochum. He earned his doctorate with A. Haas in 1992 and concluded a postdoctoral work together with A. J. Downs at Oxford University with a further Ph. D. thesis and Inauguration (D. Phil.). In 1995 he then started his Habilitation work in Heidelberg, which was finished in 1999. Having received a Heisenberg scholarship he stayed in Heidelberg until 2001, when he moved to the TU Munich to lead the Inorganic Chemistry chair on behalf of Professor Herrmann. In 2002 he accepted an offer to become full professor at the Humboldt-Universität zu Berlin. There he also acted as Dean for the Mathematisch-Naturwissenschaftlichen Fakultät I from 2006 to 2008. For his scientific work Christian Limberg was awarded a Karl-Winnacker-Stipendium of the Aventis Foundation, the academy prize of the Academy of Science in Göttingen, as well as the Carl-Duisberg-Gedächtnispreis of the GDCh. In 2009 he received the Horst-Dietrich-Hardt price of the Universität des Saarlandes.

**Research Interests**

Surfaces of selected oxide catalysts as well as the prosthetic groups of oxo transferring enzymes are serving as paragons to the research group Limberg for the design of molecular metal/oxygen systems and their utilization for the oxidation of hydrocarbons; these investigations also include in-depth mechanistic studies. Another focus lies on the activation of small (inert) substrates (e.g., H<sub>2</sub>, N<sub>2</sub>, CO<sub>2</sub>) with the objective of making them usable for subsequent chemistry. For this purpose homo- and heterobimetallic complexes are synthesized, partly also inspired by biological systems.