

***Atomistic Understanding of Heterogeneous  
Catalysis - C-H Bond Activation***

**Prof. Dr. Joachim Sauer**

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**Friday 15th March, 2013. ICIQ Auditorium, 12 p.m.**

**Professional career**



Joachim Sauer received the Dr. rer. nat. degree in Chemistry from Humboldt University in Berlin in 1974, and the Dr. sc. nat. degree from the Academy of Sciences in (East-)Berlin in 1985. Since 1993 he is Professor of Theoretical Chemistry at the Humboldt University in Berlin, and since 2006 external member of the Fritz Haber Institute (Max Planck Society). He is member of the Berlin-Brandenburg (formerly Prussian) Academy of Sciences, the German National Academy Leopoldina, and the Academia Europea.

**Research Interests**

His research has explored the application of quantum chemical methods in chemistry, with emphasis on surface science, particularly adsorption and catalysis. He has published more than 300 research papers, notably in the area of modeling the structure and reactivity of zeolites and transition metal oxide catalysts, and he has given more than 330 invited lectures. From 1999 to 2011 he was chairman of the Collaborative Research Center of the German Research Foundation (DFG) "Aggregates of transition metal oxides – Structure, dynamics, reactivity" and he is co-founder and principal investigator of the DFG-funded Cluster of Excellence UNICAT in Berlin.