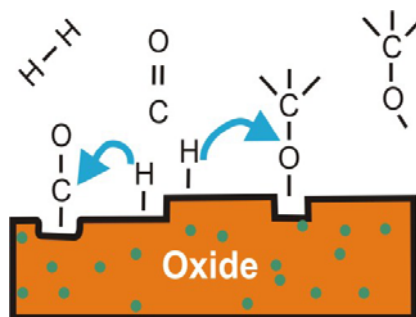


# Ruhr-Universität Bochum



**SFB 558**

**„Metall-Substrat-Wechselwirkungen  
in der heterogenen Katalyse“**

**Einladung  
zum Vortrag von**

**Prof. Dr. Karl Jacobi**  
**Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin**  
(Gast von Prof. Wöll und Dr. Wang)

## **Chemical Processes on Solid Surfaces – The RuO<sub>2</sub>(110) Surface and its High Catalytic Activity**

Abstract: Some results will be presented from our collaboration with the 2007 Nobel Prize winner in Chemistry, Gerhard Ertl. From the study of Ru(0001) surfaces, highly loaded with oxygen, it was discovered that a thin RuO<sub>2</sub>(110) surface coating had been formed which then played the role of the active catalyst at the Ru(0001) supporting surface. Some related results will be shown of the interaction of this surface with O<sub>2</sub>, CO, CO<sub>2</sub>, H<sub>2</sub>, and NH<sub>3</sub> which were derived from vibrational spectroscopy (HREELS) and thermal desorption spectroscopy (TDS). More extended comments will be made on the oxidation of CO at RuO<sub>2</sub>(110) as the role of this reaction has been questioned recently (Goodman et al., Surf. Sci. 601(2007)L124).

<b>Termin:</b>	<b>18.12.2007</b>
<b>Zeit:</b>	<b>11.15 h</b>
<b>Ort:</b>	<b>HNC 5/99</b>

*Gäste sind herzlich willkommen.*