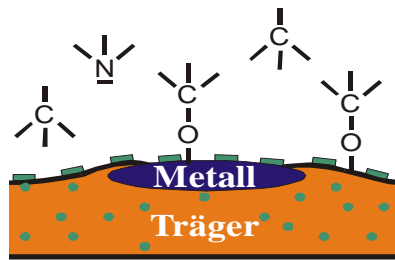


Ruhr-Universität Bochum



SFB 558

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

**Einladung
zum Vortrag von**

**Prof. Dr. Salvador Miret-Artés
Instituto de Matemáticas y Física Fundamental (IMAFF)
des CSIC, Madrid
(Gast von Prof. Wöll)**

**„Mechanism of relaxation of low frequency vibrations
of adsorbates on a metal surface“**

Abstract: The relaxation of a vibrationally excited adsorbate on a metal surface is described by a sequence of steps involving e-h pairs and phonon excitations such that the overall effect is predominance of decay by phonons. The mechanism is elaborated for inelastic scattering of a He beam, within a model of coupling between adsorbate and substrate vibrations including non-Markovian dissipation of energy. Its consequences are illustrated with calculations for the frustrated translation (or T-mode) of the Na and CO adsorbates on Cu and Pt surfaces and by comparison with experimental results of energy loss, showing very good agreement over the measured temperature ranges.

Termin:	7.12.2004
Zeit:	11.15 Uhr
Ort:	HNC 5/99

Gäste sind herzlich willkommen.