TECHNISCHE UNIVERSITÄT WIEN

INSTITUT FÜR ANGEWANDTE PHYSIK
Institute of Applied Physics
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# IAP-SEMINAR

## ANNOUNCEMENT

Date: **Tuesday, 10.5.2016**
Time: **16:00 p.m.**
Location: **Technische Universität Wien, Institut für Angewandte Physik, E134**
yellow tower „B“, 5th floor, Sem.R. DB gelb 05 B (room number DB05L03), 1040 Wien, Wiedner Hauptstraße 8-10

Lecturer: **Jan Čechal**
CEITEC, Brno University of Technology, Brno/CZ

Subject: **Metal-organic coordination networks on metal surfaces: from hierarchical self-assembly to $CO_2$ activation**

Abstract: Systems featuring organic molecules are becoming integral part of wide range of functional devices. The popularity of organic materials can be tracked down to their inherent functional versatility and cost effectivity. The organic building blocks can be designed to bear specific functionality and incorporated into functional architectures. In the talk I will introduce the design principles based on self-assembly of organic molecules for preparation of the extended supramolecular patterns on metal surfaces. The hierarchical assembly will be described on the model system comprising Fe atoms and dicarboxylic acid molecular linkers forming extended network structure further decorated with Ni atoms with the aim to mimic enzymatic systems for $CO_2$ conversion.

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*All interested colleagues are welcome to this seminar lecture*
*(45 minutes presentation followed by discussion).*

*U. Diebold e.h.*
*(Seminar-Chairperson)*

*H. Störi e.h.*
*(LVA-Leiter)*