

# **Seminář odd. 26**

## **Tenkých vrstev a nanostruktur**

*Fyzikální ústav AVČR, Cukrovarnická 10, Praha 6*

*datum: 29. 4. 2014 úterý*

*čas: 9:30*

*mítnost: knihovna, budova A, 1.p.*

### **TÉMA**

## **Electrochemically addressable molecules for molecular electronics**

**Dr. Magdaléna Hromadová**

**J. Heyrovsky Institute of Physical Chemistry ASCR, v.v.i.**

Electron transfer properties of selected molecules will be discussed in terms of their electron transfer properties in a classical electrochemical sense and in the arrangement of the metal-molecule-metal and metal-inclusion complex-metal break junction. The first example represents the molecular wire functionality, whereas the second example represents the electrochemically-addressable molecular switch. Two types of molecules will be discussed: extended pyridiniums (EP) and ferrocene-terminated oligo(phenylene ethynylene) molecular wires (Fc-OPE) that can form inclusion complexes with cyclodextrins.

odborný garant: *Ing. Pavel Jelínek, PhD.*