



Univerzita Karlova v Praze, Přírodovědecká fakulta

Sekce chemie PŘF UK v Praze
zve všechny zájemce na přednášku z cyklu

Quo Vadis Chemie

Evolution of Transmission Electron Microscopy methods applied to Porous Science

kterou přednese

Dr. Alvaro Mayoral

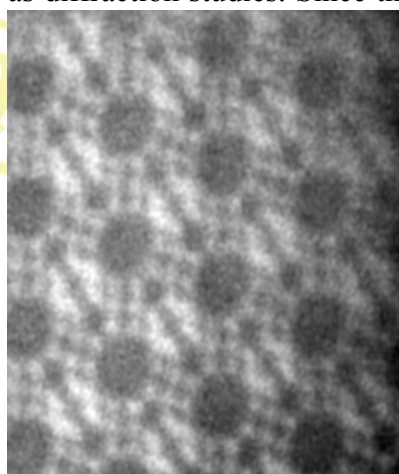
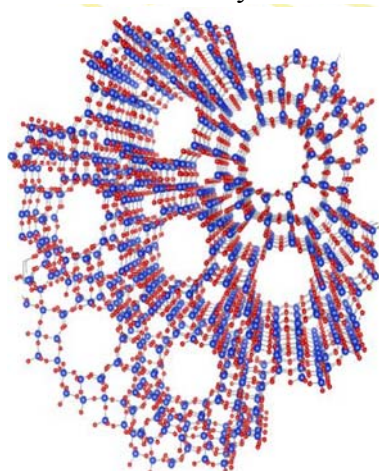
Instituto de Nanociencia de Aragón (INA)
Universidad de Zaragoza, Spain



dne 12.06. v 15:00 hod.

**v posluchárně CH2, v budově chemických kateder PŘF UK
Hlavova 8, Praha 2**

Abstrakt: Transmission electron microscopy (TEM) lies at the heart of characterization techniques in material science as it allows direct visualization of the elements combining chemical analyses as well as diffraction studies. Since the construction of the first TEM until



now, this scientific discipline has significantly evolved up to the observation of matter down to the atomic scale. Nowadays, the most critical factor when applying this technique is the material itself. In this presentation, it will be shown the correlation between the advances of electron microscopy and its application to beam sensitive materials such as zeolites, mesoporous solids or metal organic frameworks (MOF).

Despite the strong difficulties that are encountered on the observation of these solids; it will be shown the kind of information that can be acquired and how to overcome the problems that we face.