**CICLO DE CONFERENCIAS**

***DEPARTAMENTO DE FÍSICA- INSTITUTO DE FÍSICA DEL SUR***

**" Preparation and Characterization of metal doped reducible oxide "**

**Disertante:**

**Dr. Karel Mašek***Department of Surface and Plasma Science,
Faculty of Mathematics and Physics, Charles University in Prague,
V Holešovičkách 2, Prague 8, Czech Republic*

**Fecha:** Miércoles 3 de Diciembre de 2014
**Horario:** 11:30 hs
**Lugar:** Sala de Conferencias del Departamento de Física (Av. Alem 1253- subsuelo - cuerpo B)

# Resumen

During the presentation the results of the projects based on the preparation and investigation of tungsten oxide performed at the Department of Surface and Plasma Science will be briefly introduced. The investigations are made by surface science techniques and by scanning electron microscopy with the aim to develop pure and metal doped tungsten oxide layers suitable for applications in catalysis and gas sensing. Fundamental studies are performed on well-defined model systems, mainly epitaxial layers, permitting detail investigation of structural as well as chemical properties and its mutual relationship. This knowledge is then applied for the fabrication of real catalysts and gas sensors.