

# SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA

Uprzejmie zawiadamiamy, że w **ŚRODĘ**

**13 lutego 2008, o godz. 10:00**

w sali 203 (bud.1, II piętro) odbędzie się seminarium, na którym

**Prof. Paulo César Morais**

University of Brasilia  
Head of the Brazilian Nanomagnetism Network

wygłosi referat na temat:

**„Using Raman spectroscopy as a key technique in the investigation of superparamagnetic iron oxide particles”**

## Streszczenie

Though Raman spectroscopy is a classical material's characterization technique its use in the investigation of superparamagnetic iron oxide (SPIO) particles is quite recent. SPIO, on the other hand, has been recently revisited as an excellent material platform for building complex magnetic nanostructures, such as magnetic fluids, magnetoliposomes, magnetic nanocapsules, and magnetic nanoemulsions. In building such complex magnetic structures one learns that the core as well as the shell SPIO properties play a key role. The efforts towards using Raman spectroscopy to investigate the SPIO-core as well as the SPIO-shell structures have been very successful so far. This talk will highlight examples of successful initiatives of using Raman in the investigation of native and surface-functionalized SPIO particles in regard to their core and surface characteristics.

Serdecznie zapraszamy

Roman Puźniak  
Henryk Szymczak  
Andrzej Wiśniewski