

SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA

Uprzejmie zawiadamiamy, że w **ŚRODĘ**

1 kwietnia 2009 r., o godz. 10:00

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

Prof. Paulo César MORAIS

*University of Brasilia
Head of the Brazilian Nanomagnetism Network*

wygłosi referat na temat:

„Investigation of nanosized magnetic particles using photoacoustic spectroscopy”

Development of complex nanoparticulated magnetic materials for a specific application usually requires surface functionalization of the as-produced magnetic nanoparticle. Therefore, quantification of the surface grafting as well as the stability of the surface coating against desorption are key issues. Different spectroscopic techniques can be used to monitor the time evolution of the surface coating in dressed nanoparticles. Among them photoacoustic spectroscopy (PAS) emerges as an important physical characterization technique of a universal class of precursors used in the preparation of complex nanoparticulated magnetic materials, namely non-functionalized and functionalized magnetic nanoparticles suspended as magnetic fluids (MFs). The talk will be addressed to the discussion of PAS results and how these data provide valuable information for both the core and the shell region of the magnetic nanoparticle. Among the complex materials based on MFs we want to emphasize magnetoliposomes, biocompatible magnetic nanocapsules, and biocompatible magnetic nanoemulsions.

Serdecznie zapraszamy

Roman Puźniak
Henryk Szymczak
Andrzej Wiśniewski