

SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA

Uprzejmie zawiadamiamy, że w **ŚRODĘ**

4 listopada br., 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:

**„Magnetic resonance of nanoparticulated
magnetic materials”**

Streszczenie

Magnetic resonance of nanoparticulated magnetic materials has been reported since mid 70's. However, due to the strong influence of particle-particle interaction in powder samples a more deep understanding of the experimental data was not accessed for quite some time. Starting on early 90's the use of magnetic fluid samples in magnetic resonance experiments provided a more precise control of the particle-particle distance, allowing interpretation of different aspects of the experimental results. In addition, the opportunity to use the magnetic fluid material platform to built more complex nanosized magnetic systems based on the encapsulation of the suspended nanoparticles into different templates, with good control of the encapsulated particle volume fraction, fostered the research opportunities in the field. Applications of magnetic resonance as an analytical tool for biodistribution and cell internalization investigation of magnetic nanoparticles during *in vivo* and *in vitro* studies have established the potentialities of the technique. This talk will highlight examples of successful initiatives while using magnetic resonance in the investigation of magnetic nanoparticles addressed to both material and biological sciences.

Serdecznie zapraszamy

Roman Puźniak
Henryk Szymczak
Andrzej Wiśniewski