

SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA

Uprzejmie zawiadamiamy, że w **ŚRODĘ**

18 lipca br., o godz. 10:00

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

Prof. Paulo César Morais

University of Brasilia
Head of the Brazilian Nanomagnetism Network

wygłosi referat na temat:

„Complex Nanosized Biocompatible Magnetic Systems Prepared from Magnetic Fluids”

Streszczenie

The successful development of nanosized biocompatible magnetic systems requires full access of a well-established technological platform. Magnetic fluids provide an exceptional platform to built complex nanosized magnetic structures. External manipulation using gradients of magnetic field combined or not with hyperthermia, the latter provided by AC magnetic fields, are easily incorporated via magnetic nanoparticles. In order to support biological and medical applications the joint effort of professionals with different backgrounds in unfolding the material's characteristics and properties is a key requirement. Ultimately, the pre-clinical tests and clinical trials of a new drug delivery system (DDS) for instance are expected to be supported by the very knowledge (for example computer simulation) of the interaction between the drug itself and the surface of the material system that carries and delivers the drug. In between these two ends we found the synthesis and the physical and physico-chemical characterization of the DDS. The talk will be focused on the description of the basic characterization of a whole family of biocompatible material systems, namely biocompatible magnetic fluids, magnetoliposomes, biocompatible magnetic nanocapsules, and biocompatible magnetic nanoemulsions.

Serdecznie zapraszamy

Roman Puźniak
Henryk Szymczak
Andrzej Wiśniewski