

Symposium: Magnetic Materials

Scope of the Symposium

Magnetic materials are present in a large range of applications in our everyday life and continue a subject of very intense research. This Symposium focuses in new developments in recent years, as well as classic magnetic materials. Among the new developments are the materials for magnetocaloric effect and nanoparticles for hyperthermia applications. Thin films for magnetic recording are another example of nanotechnology with significant advance in recent years. Other materials, as electrical steels and strontium ferrite magnets, remain up today very relevant for industrial applications. Rare-earth transition metal magnets are a subject of renewed interest, due to a broad range of large scale applications, as for example high efficiency motors, wind energy generators, hybrid cars and machines for magnetic resonance imaging. Thus, the symposium focuses in magnetic materials development and applications, including technological research conducted by universities and industries.

Abstracts will be solicited in (but not limited to) the following areas:

- rare-earth transition metal magnets
- magnetic nanoparticles for hyperthermia
- magnetocaloric materials
- nanocrystalline soft magnetic materials
- electrical steels
- strontium or barium ferrite magnets
- thin films and materials for magnetic recording

Symposium Organizers:

1. Prof Dr Marcos Flavio de Campos

Universidade Federal Fluminense - UFF

2. Prof Dr Paulo Antonio Pereira Wendhausen

Universidade Federal de Santa Catarina - UFSC

3. Prof. Dr. Cristiano da Silva Teixeira

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