

2009 American Institute of Chemical Engineers Annual Meeting November 8-13, Nashville, TN

Meeting Website: <http://www.aiche.org/Conferences/AnnualMeeting/index.aspx>

Sessions Focusing on Magnetic Nanoparticles:

Magnetic Particle Synthesis and Properties

Chairs: Robert N. Grass and Wendelin J. Stark

Magnetic particles are the workhorse of many diagnostic methods and increasingly contribute to chemical separation technologies. This session welcomes papers on the synthesis, characterization and the physical/chemical behavior of magnetic nanoparticles. A particular focus is given to the use of magnetic particles, commercial applications, interactions with complex fluids and contributions on the mechanism of magnetic separation, agglomeration and filtration.

Magnetic Nanoparticles In Biotechnology And Biomedicine I & II

Chairs: J. Zach Hilt and Carlos Rinaldi

Advanced materials that incorporate magnetic nanoparticles can be used in numerous fields, including bioseparations, hyperthermia treatment, drug delivery and toxin removal, medical diagnostics, and sensing devices. Abstracts are invited for presentations offering an experimental or theoretical approach to the design, development and application of magnetic nanoparticles for use in biotechnology or medicine. It is anticipated that papers will be submitted from researchers in the areas of pharmaceuticals, transport and diffusional phenomena, nanotechnology, polymer science, biochemical engineering and biomedical systems.

In addition to many sessions on particles, nanoparticles and nanotechnology, sponsored by the **Particle Technology Forum** and the **Nanoscale Science and Engineering Forum** of the AIChE!

Abstract Submission: May 11, 2009

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