

TMS2016
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TENNESSEE MUSIC CITY CENTER

Connecting the Global Minerals, Metals, and Materials Community.



Advanced Magnetic Materials: An FMD Symposium in Honor of Michael E. McHenry

This symposium in honor of Michael E. McHenry of Carnegie Mellon University will discuss recent developments in the processing, characterization, property evaluation, and product development of advanced magnetic materials. McHenry's contributions will be highlighted; the current status and recent advances in relevant research areas will be discussed.

Areas of interest include magnetic materials for energy, bio, transducer, and lab-on-a-chip applications. These applications encompass a wide variety of high-value-added industries and technologies. Examples include improved soft magnetic materials for reducing energy loss in electrical systems, hard magnets for energy efficient electrical machines, magnetocaloric materials for novel thermal management and magnetic nanoparticles for magnetocaloric, bioengineering, and lab-on-a-chip microfluidic systems. The relevant materials include soft and hard magnets, magnetocaloric materials, nanoparticles and magnetic fluids.

Emphasis will be placed on the processing of nanostructured magnetic materials by both physical and chemical techniques, synthesis of nanoparticles, characterization by microscopy and diffraction techniques, and performance evaluation using specialized magnetometry techniques. Product development of advanced magnetic materials for large-scale systems and small-scale devices is also included in the scope of this symposium.

Organizers include:

Raju Ramanujan, Nanyang Technological University (Singapore)

Matthew Willard, Case Western Reserve University (USA)

Francis Johnson, GE Global Research (USA)

Paul Ohodnicki, National Energy Technology Laboratory (USA)

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