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TMS2019
148th Annual Meeting & Exhibition

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March 10–14, 2019
San Antonio, Texas, USA

JOIN US FOR THIS TMS2019 SYMPOSIUM:

ENERGY & ENVIRONMENT

Advanced Magnetic Materials for Energy and Power Conversion Applications

This symposium focuses on structure, property, processing, and performance interrelationships for emerging soft magnetic materials, permanent magnets, magnetocaloric materials, and hybrid materials, such as materials that display both a magnetocaloric and elastocaloric effect. The scope includes manufacturing methods, characterization, and applications.

We encourage topics that focus on the economic effects that magnetic materials have on manufacturing and adaptation of technologies and applications.

This symposium will place a particular interest on emerging and established advanced manufacturing methods such as:

- additive manufacturing
- top-down and bottom-up bulk nano-manufacturing
- thermal-mechanical and thermal magnetic processing
- energy dense processing such as RF, microwave, high pressure and high magnetic field processing

In a session on critical raw materials, we welcome contributions on issues surrounding critical raw materials use, optimization and/or substitution in energy applications.

ORGANIZERS

Frank Johnson, Niron Magnetics, Inc., USA

Paul Ohodnicki, National Energy Technology Laboratory, USA

Alex Leary, NASA Glenn Research Center, USA

Orlando Rios, Oak Ridge National Laboratory, USA

Nearly 4,000 presentations are planned
at more than 80 symposia at TMS2019.

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