

Focus Area 2
Developing Substitutes

Lead: [Tom Lograsso](#), Ames
Deputy: [Brian Sales](#), ORNL

Strong Permanent Magnets with Reduced RE Content

[S. McCall](#), LLNL and [I. Nlebedim](#), Ames

Reduced RE Content High Performance Magnets;
[P. Canfield](#), Ames (2.1.1)

Additive Manufacturing of Permanent Magnets;
[S. McCall](#), LLNL (2.1.2)

Optimization of Grain Boundaries and Interfaces in Fine Particle Magnets;
[F. Johnson](#), GE (2.1.3)

Thermo-Magnetic Processing of RE Magnets; [M. McGuire](#), ORNL (2.1.4)

Materials Design Simulator;
[P. Turchi](#), LLNL (2.1.6)

Improving Fracture Toughness of the Sm-Co Magnets with High Energy Product; [J. Cui](#), Ames (2.1.7)

Simulating Performance of Permanent Magnet Machines;
[I. Nlebedim](#), Ames (2.1.8)

Phosphors

[S. Payne](#), LLNL

New Efficient Phosphors Without Critical Material Content for Lighting;
[S. Payne](#), LLNL (2.2.4)

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