

Materials Accelerator Network

EXECUTIVE SUMMARY

The workshop **Building an Integrated MGI Accelerator Network** brought together 150 thought leaders and stakeholders from across the nation in areas of academia, industry, and government to explore how distributed experimental, computational, and materials information infrastructure might be further developed and collaboratively networked to most efficiently realize the vision of the Materials Genome Initiative (MGI). Co-organized by the Georgia Institute of Technology, the University of Wisconsin-Madison, and the University of Michigan, the workshop was hosted June 5-6, 2014, by Georgia Tech. The event initiated a national dialogue regarding the Materials Accelerator Network concept, as highlighted in the OSTP press release on the second anniversary of MGI, June 24, 2013. A set of opening plenary talks outlined the government MGI strategy and shared industry and academic perspectives on accelerating materials discovery, development, and deployment. The plenary talks were followed by breakout sessions organized in a range of application domains, including: materials for organic and inorganic electronics; structural materials; materials for energy storage and conversion; biomaterials and bio-enabled materials; and materials and interfaces for catalysis and separations. Breakout sessions explored and discussed three specific themes: critical issues and technology gaps; infrastructure for MGI integration; and strategy for road mapping a materials accelerator network.

High priority recommendations included:

- Focusing on education and training of the future MGI workforce;
- Compiling a knowledge base of existing federally funded MGI-related efforts;
- Linking physical- and cyber-infrastructure that cuts across materials classes and application domains;
- Establishing working groups and networks in and across these domains;
- Defining effective foundational engineering problems for each application domain to rally MGI stakeholder collaboration and networking; and
- Establishing a distributed materials information infrastructure.

Information regarding this workshop and the materials accelerator network concept can be found at www.accelatornetwork.org.

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To view the full report, go to: www.acceleratornetwork.org