40 Years of Basic Energy Sciences at the Department of Energy

Agenda

Introduction  (Marc Kastner)

DOE Perspective (Steve Binkley)

Examples of Stories
  ▪  Scientific Research Facilities (Marc Kastner)
  ▪  Nanoscience (Monica Olvera de la Cruz)
  ▪  Tough Stuff (John Sarrao)
  ▪  Superconductivity (George Crabtree)
  ▪  Quantum Computing (Marc Kastner)
Shared Research Facilities:
A Key Source of U.S. Scientific and Industrial Leadership

Dr. Marc Kastner
Science Philanthropy Alliance &
Massachusetts Institute of Technology
Nanoscience: How to Invent a Whole New Field

Dr. Monica Olvera de la Cruz
Northwestern University

6 nm to 2 nm diameter
Tough Stuff: Extreme Materials for Extreme Challenges

Dr. John Sarrao
Los Alamos National Laboratory
Making Superconductivity Useful

Dr. George Crabtree
Argonne National Laboratory &
University of Illinois, Chicago
Quantum Computing

Dr. Marc Kastner
Science Philanthropy Alliance &
Massachusetts Institute of Technology
LEVERAGING SEMICONDUCTOR SCIENCE FOR CLEAN ENERGY TECHNOLOGIES

Tough Stuff: Extreme Materials for Extreme Challenges

If you're going to walk the walk, and you want it to perform predictably and reliably, you have to understand the materials and processes you're dealing with. Remember: materials are...