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
Nanoscience: Energy & Environment

Solute Metal  Noble Metal
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