Response to date:

- NSF Director's Symposium on Robust and Reliable (R&R) Science: The Path Forward, 9 Sep 2015.
- Goal: identify and assess opportunities in R&R science that are germane to MPS disciplines and propose approaches to capitalize on them.
GOAL: Catalyzing a robust and reliable scientific enterprise

- Identify common aspects of (ir)reproducibility across communities represented at the workshop.
- Propose a roadmap for engaging the community.
- Document findings in a report to NSF.
Topics to be discussed at the workshop:

I. Lack of Reproducibility: Feature or Flaw?

II. Theory and Experimentation in Science.

III. Precision. Statistics. Software.

IV. Fundamentals of scientific reporting.

Roger Peng (JHU) *A Simple Explanation for the Replication Crisis in Science*, Simply Statistics blog
Actions:

• Develop roadmap for training, promoting effective practices, and future community-specific workshops and summer schools.

• Integrate on-going activities regarding the Public Access to Results from NSF-Supported Research.

Possible course of action for further discussion

• Explore with publishers: Store/serve data used for Figures in publications. Publishers are already committed to store publications in perpetuity. Additional storage capacity requirements are modest.