Bias and Scientific Research* Dr. Brian Nosek (U.Va. and Center for Open Science) will discuss susceptibility to unconscious biases and how these issues may affect the conduct of science, with examples and counter-examples from a variety of disciplines. Introduction and moderated discussion led by Nicholas Lemann (Columbia University).

Robust Science: Problems and Solutions* An interdisciplinary panel will explore the types of bias that may affect the conduct of science and ways to prevent them. Moderator: Dr. Maria Zuber (MIT and former Chair of National Science Board). Panelists: Dr. Brian Nosek, Dr. David Madigan (Columbia University), Dr. Geraldine Richmond (University of Oregon), and Dr. Shai Silberberg (NIH).

“Put the Ph. Back into the Ph.D.” and Other Novel Approaches to Scientific Training* Dr. Arturo Casadevall (Johns Hopkins) will provide an overview of a new approach to graduate scientific education that focuses on critical thinking, creative problem solving, and rigorous research methodology. Following Dr. Casadevall’s presentation will be comments and discussion moderated by Dr. Pamela Smith (Columbia University) and including panelists Dr. Melissa Begg (Columbia University), Dr. Len Freedman (Frederick National Laboratory for Cancer Research), and Dr. Ericka Peterson (Columbia University), in addition to Dr. Casadevall.

Journal Editor Perspectives on Rigor and Bias* Dr. Marcia McNutt (President of National Academy of Sciences and former editor of Science) will moderate a conversation among journal editors on their perspectives on the role of scientific journals in promoting robust and transparent science. Panelists include Dr. Howard Bauchner (Editor, JAMA), Dr. Veronique Kiermer (Executive Editor, PLOS), and Dr. Meredith LeMasurier (Executive Editor, Nature).

Wrap-up: Observations and Lessons Learned* Dr. Sandra Soo-Jin Lee (Columbia University) will moderate a conversation that reflects upon the day’s discussion. Panelists: Dr. Marcia McNutt, Dr. Maria Zuber, and Dr. Pamela Smith.