

**FAILURES IN SOCIAL SYSTEMS: CONVERGING BIOLOGICAL,
BEHAVIORAL, AND ENGINEERING INSIGHTS**

A VIRTUAL FORUM

THURSDAY, MARCH 7, 2024

Hosted by the Board on Human-Systems Integration, Division of Behavioral and Social Sciences and Education; Board on Life Sciences, Division on Earth and Life Studies; and the Forum on Complex Unifiable Systems, National Academy of Engineering

AGENDA

- 10:30 am ET** *Opening Remarks*
Marcia McNutt, National Academy of Sciences
John Anderson, National Academy of Engineering
- 10:40 am** *What Does Failure Mean in Social Systems? Fostering a Collaborative View*
Gregory Symmes, The National Academies
Kavita Berger, The National Academies
Emanuel Robinson, The National Academies
Guru Madhavan, National Academy of Engineering
- 11:00 am** **Block I: *Thinking Beyond Root Causes***
*Moderated by: **Guru Madhavan**, National Academy of Engineering*
- Steven Frank**, University of California, Irvine
Roger McCarthy, McCarthy Engineering; Formerly, Exponent
Elisabeth Pate-Cornell, Stanford University
Leslie DeChurch, Northwestern University
- 12:15 pm** **Break**
- 12:30 pm** **Block II: *Organizational Approaches to Failure Management***
*Moderated by: **Emanuel Robinson**, The National Academies*
- Cynthia Null**, NASA
Jon Holbrook, NASA
James Bagian, University of Michigan
William Rouse, Georgetown McCourt School of Public Policy

- 1:45 pm** **Break**
- 2:00 pm** **Block III: *Engaging with Risks and Vulnerabilities: A Case Study of the Bioeconomy***
Moderated by: Kavita Berger, The National Academies
- Sarah Richardson**, MicroByre
Christopher Austin, Flagship Pioneering
Georgia Lagoudas, Formerly, The White House Office of Science and Technology Policy
- 3:15 pm** **Synthesis: *Advancing the Integration of Biological, Behavioral, and Engineering Insights***
George Poste, Arizona State University
- 3:30 pm** **Looking to the Future**
Guiding Scientific Investments and Policy Measures
Sudip Parikh, American Association for the Advancement of Science
- Guiding Scientific Collaborations*
Randolph Nesse, University of Michigan
- 4:00 pm** **Block IV: *Reflections and Next Steps***
Moderated by: Jay Labov, National Academy of Engineering
- 4:20 pm** *Concluding Remarks*
Al Romig, National Academy of Engineering
- 4:30 pm** **Adjourn**