

First Meeting
Committee on Reproducibility and Replicability in Science
December 12-13, 2017

Room 125
The National Academy of Sciences Building
2101 Constitution Avenue, NW
Washington, DC 20001

Public Sessions will be webcast and recorded via Zoom

DRAFT AGENDA
SUBJECT TO CHANGE

Tuesday, December 12, 2017

Join from PC, Mac, Linux, iOS or Android: <https://nasem.zoom.us/j/361396182>

OPEN SESSION: Session Open to the Public
NAS Building, Room 125

- 12:30 Welcome and Introductions
Mary Ellen O'Connell, Executive Director, Division on Behavioral, Social Science, and Education
Harvey Fineberg, Committee Chair and President of the Gordon and Betty Moore Foundation
- 1:00 The Scientific Enterprise
Edward (Ned) Hall, Chair, Department of Philosophy, Harvard University and committee member
Q&A: **Harvey Fineberg**, Moderator
- 1:45 National Science Foundation's Interests and Goals for the Study
Dr. Joan Ferrini-Mundy, Chief Operating Officer, NSF (confirmed)
Q&A: **Harvey Fineberg**, Moderator
- 2:30 BREAK

Perspectives on Reproducibility and Replication: Scientific Societies, Part I

Panelists, primarily leaders from scientific societies and organizations, have been asked to focus on the following topics:

- Within your field of science, what is the level of awareness, interest, concern, and involvement in reproducibility and replicability (R&R) of research results?
- Are there specific areas within your field of science that are more likely to have issues with reproducing scientific results?
- What reproducibility challenges does your field of science face with cross disciplinary research?

Each panelist has 10 minutes for a presentation + 5 minutes for questions from the committee.

2:45 Psychology and Social Sciences

William G. Jacoby, Professor, Department of Political Science, Michigan State University and Editor, *American Journal of Political Science* (confirmed)

Howard S. Kurtzman, Acting Executive Director, Science Directorate, American Psychological Association (confirmed)

To Be Determined (TBD)

Q&A: **Harvey Fineberg**, Moderator

3:30 Physical Sciences

Kate Kirby, CEO, American Physical Society (confirmed)

TBD

Q&A: **Harvey Fineberg**, Moderator

4:00 Statistics

Ron Wasserstein, executive director, American Statistical Association (confirmed)

TBD

Q&A: **Harvey Fineberg**, Moderator

4:15 Earth Sciences

Brooks Hanson, Senior Vice President Publications, American Geophysical Union (confirmed)

Q&A: **Harvey Fineberg**, Moderator

4:30 Engineering

Philip DiVietro, Managing Director of Publishing [or other representative], American Society of Mechanical Engineers (ASME) (confirmed)

John Baillieul, Distinguished Professor of Engineering, Professors of Mechanical, of Electrical and Computer Engineering, and of Systems Engineering, Boston University (confirmed)

Q&A: **Harvey Fineberg**, Moderator

5:00 Public Comments

5:30 End Public Session

Wednesday, December 13, 2017

Join from PC, Mac, Linux, iOS or Android: <https://nasem.zoom.us/j/882788432>

**OPEN SESSION: Session Open to the Public
NAS Building, Room 125**

8:30 am Welcome, Day One and Day Two overviews

Harvey Fineberg, chair

Perspectives on Reproducibility and Replication: Scientific Societies and Agencies, Part II

Panelists, primarily leaders from scientific societies and organizations, have been asked to focus on the following topics:

- Within your field of science, what is the level of awareness, interest, concern, and involvement in reproducibility and replicability (R&R) of research results?
- Are there specific areas within your field of science that are more likely to have issues with reproducing scientific results?
- What reproducibility challenges does your field of science face with cross disciplinary research?

Each panelist has 10 minutes for a presentation + 5 minutes for questions from the committee.

8:45 Life Sciences

Yvette Seger, Federation of American Societies for Experimental Biology
(confirmed)

9:00 Reproducibility of scientific research within the agencies:

Patricia Valdez, NIH Extramural Research Integrity Officer (confirmed)

Anne Plant, NIST Fellow in the Biosystems and Biomaterials Division
(confirmed)

Q&A: **Harvey Fineberg**, Moderator

International Panelists have been asked to focus on the following topics:

- What is the level of awareness, interest, concern, and involvement in reproducibility and replicability (R&R) of research results within your national scientific societies?
- Are there specific areas of science that are more likely to have issues with reproducing scientific results?
- What R&R issues exist for cross disciplinary research?

Each panelist has 15 minutes for a presentation + 5 minutes for questions from the committee.

9:30 International Perspectives:

Eric-Jan Wagenmakers, professor of psychology, University of Amsterdam, and **Jean Phillippe de Jong**, The Dutch Royal Society of Sciences (KNAW) (confirmed)

Q&A: **Harvey Fineberg**, Moderator

10:10 BREAK

10:25 Reporting of Reproducibility Issues in Science

Richard Harris, Science Correspondent, National Public Radio (confirmed)

11:05 Policy makers within the federal government:

To be determined

Perspectives from Editors of Cross-disciplinary Journals

Questions for journal editors:

- Can journals assess levels of reproducibility and replication across science?
- Are cross-disciplinary papers handled differently from “pure” science papers in terms of peer review or publishing decisions?
- What R&R challenges does cross-disciplinary research pose that can be addressed by journals?

11:40 **Veronique Kiermer**, executive editor, PLOS (tentative)

TBD

Q&A: **Harvey Fineberg**, Moderator

12:10 Public Comments

12:30 End Public Sessions