



Dupont Summit 2017

Science, Technology, and Environmental Policy

December 1, Historic Whittemore House, Washington, DC

Panel

“Open Science: Epistemic, Ethical, and Practical Issues”

This panel will address various aspects of open science relative to the epistemic, ethical, and practical contexts in which science is produced and consumed, affecting scholars and analysts, funders, institutions, and practitioners across academia, government, and industry. Referring to broad access to scientific research and data, open science signals changes in processes of producing, acquiring, and sharing knowledge, driving and determining the conduct of research and of research communication, application, and practice. These changes also involve matters of professional standards and assessments, of data integrity and research reproducibility, and of privacy and security across levels of analysis. Accordingly, challenges, problems, and prospects for open science will be considered as questions addressing issues such as data management, socio-technical support infrastructure, education and training, and disciplinary and organizational cultures. In particular, open science will be explored in terms of institutional frameworks, governance conditions, and system dynamics and values in relation to FAIR – findable, accessible, interoperable, reusable – data principles. Moreover, noting that open science rests on the curation, management, and communication of research and data for consumption and use, the panel will address related questions to provide directions for further research and as bases for policy formulation and implementation.

Organizer

Connie L. McNeely, *George Mason University*

Moderator

Ester Sztein, *National Academy of Sciences (U.S.)*

Presentations

“Open Science: Concepts, Frameworks, and Perspectives”

Erik W. Kuiler, *George Mason University*

“The Implications of Open Science on Data Privacy and National Security”

Heng Xu, *Pennsylvania State University*

“Practicalities in Supporting Open Science: The Role of University Libraries”

Wendy Mann, *George Mason University*

“An Open Mind on Open Science”

Feras A. Batarseh, *George Mason University*