



## **Advancing a Systems Approach to Studying the Earth: A Strategy for the National Science Foundation**

### ***Computing, Data, and Cyberinfrastructure for a Systems Approach to Studying the Earth***

***A Two-Part Virtual Workshop***

***Part 1: Thursday, February 4, 2021, 12:00 - 2:00pm ET***

***Part 2: Friday, February 12, 2021, 12:00 - 2:00pm ET (details forthcoming)***

#### ***Public Agenda***

The National Academies of Sciences, Engineering, and Medicine committee on “[Advancing a Systems Approach to Studying the Earth: A Strategy for the National Science Foundation](#)” has been tasked to develop a compelling vision for a systems approach to studying the Earth in order to inform approaches to integrated research at NSF and to provide guidance as to how NSF can support the research community. The final report will also identify the facilities, infrastructure, coordinating mechanisms, computing, and workforce development needed to support a more integrated approach for studying components of the earth system. This two-part workshop seeks feedback on computational, data, and analytic support for Earth systems research, including guidance on harnessing existing, planned, and future NSF-supported cyberinfrastructure.

**Part 1**  
**Thursday, February 4, 2021**  
**12:00 - 2:00pm ET**

**12:00 PM   Welcome and Purpose of the Workshop**  
*Bill Gropp, Committee Member and Workshop Organizer*

**12:05 PM   Overview and stage-setting remarks**  
*Dan Reed, University of Utah*

## **Advancing a Systems Approach to Studying the Earth: A Strategy for the National Science Foundation**

**12:20 PM** **Launching and sustaining multi-stakeholder consortia to advance the cyberinfrastructure in the geosciences**  
*Joel Cutcher Gershenfeld, Brandeis*

**12:35 PM** **Hydrology, cyberinfrastructure for observations systems**  
*Jeffrey Horsburgh, Utah State*

**12:50 PM** **Seismology, needs of subfields moving forward**  
*Jeroen Tromp, Princeton University*

**1:05 PM** **Discussant Remarks**  
*Kerstin Lehnert, Lamont-Doherty Earth Observatory of Columbia University*

**1:15 PM** **Panel Discussion and Audience Q&A**  
*Moderator: Courtney Flint, Committee Member and Workshop Organizer*

**1:55 PM** **Wrap-up**  
*Jerry Mitrovica, Committee Member and Workshop Organizer*

**2:00 PM** **Adjourn**