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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 2: Friday, February 12, 2021, 12:00 - 3:00pm ET

## Public Agenda

The National Academies of Sciences, Engineering, and Medicine committee on "<u>Advancing a</u> <u>Systems Approach to Studying the Earth: A Strategy for the National Science Foundation</u>" 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 twopart workshop seeks feedback on computational, data, and analytic support for Earth systems research, including guidance on harnessing existing, planned, and future NSF-supported cyberinfrastructure.

Recording of Part 1 can be found here: <u>https://www.nationalacademies.org/event/02-04-</u> 2021/computing-data-and-cyberinfrastructure-for-a-systems-approach-to-studying-the-earthpart-1.

> Part 2 Friday, February 12, 2021 12:00 - 3:00pm ET

- **12:00 PM** Welcome and Purpose of Workshop Bill Gropp, Committee Member and Workshop Organizer
- **12:05 PM** Al for Earth Bruno Sánchez-Andrade Nuño, Microsoft

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

## 12:25 PM **Climate Modeling** • William Collins, Lawrence Berkeley National Laboratory • Tapio Schneider, California Institute of Technology 12:55 PM Lessons Learned from Developing a Comprehensive Cyberinfrastructure for Natural Hazards Ellen Rathje, University of Texas at Austin Workforce Needs 1:10 PM Susan Winter, University of Maryland 1:25 PM Break 1:40 PM Discussant Inez Fung, Committee Member and Workshop Organizer 1:50 PM Discussion and Audience Q&A Moderated by: Jerry Mitrovica, Committee Member and Workshop Organizer 2:50 PM Wrap-up Bill Gropp, Committee Member and Workshop Organizer

3:00 PM Adjourn