

*The National Academies of*  
**SCIENCES • ENGINEERING • MEDICINE**  
**Committee on Designing Citizen Science to Support Science Learning**  
**PUBLIC MEETING AGENDA, Meeting 2**

Keck Center, Rooms 208 and 202  
500 Fifth Street NW, Washington, D.C.  
August 9-11, 2017

**August 9<sup>th</sup>, 2017**

**1:30 p.m.** **Welcome and Introduction of Committee, Agenda for Day One of Public Meeting, Room 208**

**1:45 p.m.** **Being Sophisticated about Science Learning**  
**Moderator: Megan Bang**  
Cindy Hmelo-Silver, Indiana University  
Joe Polman, University of Colorado – Boulder  
Guiding questions:

- What characterizes substantive science knowledge and what sorts of learning experiences help to develop different aspects of it?
- What are examples that illustrate complex dimensions of science learning in real-world contexts (e.g., systems thinking, reasoning with evidence, modeling and representing data)?
- What is the theoretical grounding for understanding the nature of the knowledge structures and learning processes in science?

**2:55 p.m.** **Break**

**3:10 pm.** **Keynote: The Potential of Citizen Science to Support Science Learning**  
Heidi Ballard, University of California - Davis  
Guiding question:

- How do people learn through public participation in scientific research?

**4:15 p.m.** **End of Day 1 Open Session**

**August 10<sup>th</sup>, 2017**

**8:30 a.m.** **Breakfast Available in Room 202**

**9:00 a.m.** **Welcome and Agenda for Day Two**  
**Room 208**  
Rajul Pandya, Study Chair

**9:10 a.m.** **Frameworks for Designing Learning Opportunities in Citizen Science**  
**Moderator: Danny Edelson**  
Bill Zoellick, Schoodic Institute  
Ruth Kermish-Allen, Maine Mathematics and Science Alliance  
Rebecca Jordan, Rutgers University

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Guiding questions:

- What are the characteristics/elements of participation in citizen science that support science learning?
- What considerations are important for designers/practitioners of citizen science to take into account if science learning is a desired goal?

**10:30 a.m.** **Break**

**10:45 a.m.** **Citizen Science in K-12 Classrooms**

**Moderator: Louis Gomez**

Rob Dunn, North Carolina State University

Andrea Wiggins, University of Nebraska - Omaha

Jennifer Fee, Cornell Lab of Ornithology

Linda Peterson, Middle School Science Specialist, Fairfax County Public Schools

Guiding questions:

- What are various considerations for using citizen science to support science learning in K-12 classrooms?
- How can teachers incorporate citizen science in support of specific science learning outcomes?

**12:25 p.m.** **Lunch Available in Room 202**

**1:10 p.m.** **Citizen Science and Community Learning Outcomes**

**Moderator: Bruce Lewenstein**

Gwen Ottinger, Drexel University

Michael Mascarenhas, University of California - Berkeley

Muki Haklay, University College - London

Guiding questions:

- How can citizen science support learning about the social context and political dimensions of science, including especially issues of community engagement and learning?
- How can citizen science be designed to support this kind of learning?

**2:30 p.m.** **Assessing Learning in Citizen Science**

**Moderator: Tina Phillips**

Karen Peterman, Karen Peterman Consulting

Cathlyn Stylinski, University of Maryland Center for Environmental Science

Guiding questions:

- How do we assess different learning outcomes in the context of participation in citizen science?
- How can we use these assessments to better understand how to design citizen science to support specific learning outcomes?

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<b>3:30 p.m.</b>	<b>Break</b>
<b>3:45 p.m.</b>	<b>Citizen Science and Science Learning in Informal Settings</b> <b>Moderator: Joe Heimlich</b> Laura Trouille, Zooniverse/Adler Planetarium Kathryn "Kit" Matthew, Director, Institute of Museum and Library Sciences Sue Allen, Maine Mathematics and Science Alliance Guiding questions:
	<ul style="list-style-type: none"><li>• What are various considerations for using citizen science to support science learning in informal settings?</li><li>• What is the role of the facilitator in informal settings in supporting specific science learning outcomes?</li></ul>
<b>5:30 p.m.</b>	<b>End of Day</b>