



*The National  
Academies of*

SCIENCES  
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# Realizing The Vision: NGSS District Implementation

January 9, 2019

National Academy of Sciences Building  
2101 Constitution Avenue, NW  
Washington, DC 20418

## Goals

The Board on Science Education (BOSE) of the National Academies of Sciences, Engineering, and Medicine and Achieve will convene a two-day planning meeting to explore the needs of districts implementing the Next Generation Science Standards and explore strategies for supporting their implementation efforts. A major goal of the two days is to identify ways that Achieve and BOSE—as well as other organizations with an interest in [\*A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas\*](#) and [\*Next Generation Science Standards\*](#)—can work together to build districts’ capacity and support sharing of lessons learned and development of productive collaborations across districts.

At the end of day one, attendees will...

1. Understand the current state of NGSS implementation in districts.
2. Understand what current and future NGSS implementation needs might be.
3. Understand the unique and essential role that the major science education organizations play as shepherds and caretakers of the NGSS.
4. Listen, share, and work with peers and colleagues.

## Agenda

*The entire agenda will be conducted in open session and [\*livestreamed\*](#). Most sessions will begin in the lecture room on the first floor, with breakouts to be announced.*

**8:00 AM      Coffee available**

**8:30 AM      Session 1: Introduction and Welcome**

*Andrés Henríquez, Vice President of STEM Learning in Communities, New York Hall of Science*

Welcome attendees, review goals for the day.

**8:45 AM      Session 2: Introduction to the K-12 Science Organizations**

*Heidi Schweingruber, Director, Board on Science Education, NASEM*

*Mike Cohen, President, Achieve*

*Suzanne Thurston, Senior Project Director, American Association for the Advancement of Science*

*Tiffany Neil, President, Council of State Science Supervisors*

*Gail Richmond, President, NARST*

*James Blake, President, National Science Education Leadership Association*

*David Evans, Executive Director, National Science Teachers Association*

Representatives from the American Association for the Advancement of Science, Achieve, the Council of State Science Supervisors, the National Academies of Sciences, Engineering, and Medicine, the National Association for Research in Science Teaching, the National Science Educational Leadership Association, and the National Science Teachers Association explain their work and how they support the NGSS.

**9:30 AM      Session 3: Iowa Districts “Deep Dive”**

*Tammy Askeland-Nagle, Mississippi Bend Area Education Agency*

*Chris Like, STEAM Coordinator, Planetarium Director, Bettendorf Community Schools*

*Melissa Trimble, Curriculum Specialist, Davenport Community Schools*

*Vanessa Wolbrink, Senior Associate, Achieve*

Two Iowa districts describe their data and efforts to implement NGSS, establishing a common baseline for subsequent discussions. State and district leaders comment on this work from their perspective.

**10:30 AM      Morning Break**

**10:45 AM      Session 4: District Breakouts**

A variety of school districts will describe their NGSS goals and implementation strategies, and highlight the successes they have had and the challenges they face.

Room 114

*Facilitator: Kara Jackson, University of Washington*

*Michael Diaz, Senior Director of Science Achievement, AchievementFirst*

*Yolanda Michelle Harman, Supervisor of Science and Mathematics, Washington County Public Schools*

Room 118

*Facilitator: Lindsay Dworkin, Alliance for Excellent Education*

*Randy Wormald, Assistant Superintendent, Merrimack Valley School District*

*Jon Laffoon, Superintendent, Star City School District*

Room 125

*Facilitator: Sean Smith, Horizon Research, Inc.*

*Eric Lewis, Middle School Science Content Specialist, San Francisco Unified School District*

*Tina Petersen, Assistant Superintendent of Educational Services, Colton Joint Unified School District*

Lecture Room

*Facilitator: Michael Lach, University of Chicago*

*Mary Margaret Welch, Seattle Public Schools, PK-12 Science Program Manager at Seattle Public Schools*

*Jessica Addison, Instructional Supervisor, Christian County Board of Education*

**12:15 PM      Lunch**

**1:15 PM      Session 5: Critical Friend Reflection**

*Lindsay Dworkin, Alliance for Excellent Education*

*Kara Jackson, University of Washington*

*Michael Lach, University of Chicago*

*Sean Smith, Horizon Research, Inc.*

A collection of NGSS “critical friends” will synthesize lessons from the districts presented in Session 4 and reflect on what the implications might be for the future. Attendees and audience members will provide their own reflections about the work.

**2:00 PM      Session 6: State Science Policies and District Implementation**

*Lizette Burks, Science Education Program Consultant, Kansas State Department of Education*

*Jill Cowart, Assistant Superintendent of Academic Content, Louisiana Department of Education*

*Michael Heinz, Science Coordinator, New Jersey Department of Education*

*Matt Krehbiel, Director of Science, Achieve*

*Marie O’Hara, Director of Research, Achieve*

Achieve presents a preview of the 2018 State Science Policy Survey and state science leaders talk about supporting district NGSS implementation.

**3:00 PM      Afternoon Break**

**3:15 PM      Session 7: Support Organizations**

*Jody Bintz, Associate Director for Strategic Partnerships & Professional Learning, BSCS*

*Linda Curtis-Bey, Senior Director of Education, American Museum of Natural History*

*Emily Freitag, Co-founder and CEO, Instruction Partners*

*Jill Grace, The K-12 Alliance Regional Director, WestEd*

*Cristina Marks, Project Director, TNTP*

*Ricki Price-Baugh, Director of Academic Achievement, Council of the Great City Schools*

Organizations that provide external support to districts will describe patterns they see in the districts they support.

**4:15 PM      Session 8: Reflections, Next Steps**

*Mike Cohen, Achieve*

*Heidi Schweingruber, BOSE*

*Tiffany Neil, CSSS*

*Gail Richmond, NARST*

*James Blake, NSELA*

*David Evans, NSTA*

Science organization leaders will describe their observations and reactions from the day's discussions. Attendees and facilitators ask questions of one another as we collectively figure out next steps.

**5:00 PM      Close**