

Issue forum C: Engineering

A sharing session where delegates report what is happening in their states and pursue guiding questions and results of readings

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Facilitators: TBD

Reporter Recorder: Delegate selected from the group

Engineering Issues Forum: You want me to teach what?

The Framework and Next Generation Science Standards raises the profile of engineering and engineering design as part of the science curriculum. In this forum, participants will explore the ramifications and related to the inclusion of engineering in the science curriculum.

Guiding Questions:

- 1 What opportunities do you see in your state or association related to engineering concepts and practices in the Framework and NGSS?
- 2 In what ways do you see NSTA and your organization (Chapters or Associated Groups) collaborating to support teachers and schools as they implement the teaching of engineering design in their science curriculum.
- 3 In what ways do you see NSTA and your organization (Chapters or Associated Groups) collaborating to provide teachers of science and students insights into the "real-world" work of engineers and connections to engineering, technology and applied science?

Recommended Readings:

- Appendix I – Engineering Design, Technology, and the Applications of Science in the Next Generation Science Standard
- Executive Summary from the National Academy of Engineering Report, "Changing the Conversation: Messages for Improving Public Understanding of Engineering."
http://books.nap.edu/catalog.php?record_id=12187
- Design Practices and Misconceptions (The Science Teacher, January 2013).
<http://www.nsta.org/publications/article.aspx?id=Z349URi8cV5SO3O7ownoERdwsIAAb4NBCg5MjhoA2TA=>
- Taking Engineering Design Out for A Spin (Science and Children, January 2013)
<http://www.nsta.org/publications/article.aspx?id=Z349URi8cV7SCDAsztNg/txKko5Fz8HODi2v0HrTuCk=>