

Share your Expertise!

Submit a session proposal to present at the
2014 OSTA Fall Conference on Science Education

<http://www.oregonscience.org/Default.aspx?pagelid=1632441>

Proposals are being accepted in the following strands at all levels (K-12):

- Connections to the CCSS in Math and ELA
- The Scientific & Engineering Practices
- Engineering & Technology Education for the Future
- All Standards – All Students!

Deadline for proposals: April 30, 2014

Scheduled Keynote Speakers:

Dr. Cary Sneider is Associate Research Professor at Portland State University in Portland, Oregon, where he teaches courses in research methodology in a Master of Science Teaching degree program. **He contributed to *A Framework for K-12 Science Education: Practices, Crosscutting Concepts and Core Ideas*, and served on the writing team for the *Next Generation Science Standards*.** In 2011 he joined the National Assessment Governing Board, which sets policy for the National Assessment of Educational Progress (NAEP), also known as "The Nation's Report Card." Before moving to Oregon Dr. Sneider was Vice President for Programs at the Museum of Science in Boston, and prior to that he served as Director of Astronomy and Physics Education at Lawrence Hall of Science, U.C. Berkeley.



Emily Miller, an elementary ESL/BRT science teacher and one of the lead writers for the NGSS Diversity and Equity Team, presents the team's overall charges and approach. Team members, under the leadership of Dr. Okhee Lee, are teachers who implemented NGSS within their own diverse classrooms in order to provide feedback during revision of NGSS drafts. Emily describes the case study for English Language Learners in Appendix D: All Standards/All Students, which she taught in her own classroom. This Earth Science/Life Science unit integrates the three dimensions stressed by NGSS – science and engineering practices, disciplinary core ideas, and crosscutting concepts – and combines research-based effective teaching strategies to increase language skills for English learners. Audience members will learn how to use a sample unit template, enabling the creation of new lessons to increase access of rigorous science to English learners.



Our theme, Next Generation Science: Engaging Students in Learning, acknowledges the connections that Science, Technology, and Engineering have with the CCSS in ELA and Mathematics, and celebrates the diversity of students we need to teach at all levels.

We are all facing similar challenges. We all have similar goals. It's time to collaborate!

**Next Generation Science:
Engaging Students in Learning**



Oregon Science Teachers Association
Fall Conference on Science Education
Centennial High School, Gresham, OR
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