

VAST 2018 PROFESSIONAL DEVELOPMENT INSTITUTE
"Diversify and Strengthen Science for All"

SATURDAY MORNING GENERAL SESSION SPEAKER
(Sponsored by the Virginia Space Grant Consortium)



Dr. Okhee Lee, New York University

"Science for All: Instructional Shifts to Promote Science and Language Learning With All Students Including English Learners"

In recent years, there have been fundamental shifts in thinking about both science and language learning with all students and English learners (ELs) in particular. Science instructional shifts promote language learning with ELs, while language instructional shifts promote science learning with ELs. Recognizing the science and language instructional shifts as mutually supportive can lead to better and more coherent instructional approaches that promote both science and language learning for all students, especially ELs. This presentation will address a conceptual framework along with examples from science curriculum materials and classroom instruction.

Dr. Okhee Lee is a professor in the Steinhardt School of Culture, Education, and Human Development at New York University. Her research areas include science education, language and culture, and teacher education. She is currently leading collaborative research between New York University and Stanford University to develop instructional materials aligned with the Next Generation Science Standards (NGSS) in order to promote science learning and language learning of elementary students including English learners. She is also leading collaborative research with MIT and Vanderbilt University to integrate computational thinking and modeling in NGSS-aligned instructional materials. She was a member of the

NGSS writing team and served as leader for the NGSS Diversity and Equity Team. She was also a member of the Steering Committee for the Understanding Language Initiative at Stanford University.