

The National Academies of
SCIENCES • ENGINEERING • MEDICINE
Board on Science Education
Division of Behavioral and Social Sciences and Education

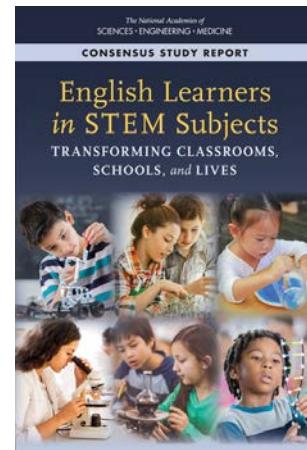
**English Learners in STEM Subjects:
Transforming Classrooms, Schools, and Lives**

Monday, January 14th, 2019
9:00 am - 3:00 pm

Huntington Room, Beckman Center
100 Academy Drive, Irvine, CA 92617

Overall themes for the day following from the report's recommendations:

- *How can we ensure teachers receive the requisite skills for teaching STEM to ELs? How can we foster collaborations during and throughout the preparation of educators? Are there specific strategies and approaches to preservice and in-service learning that are most beneficial for educators that have been linked with student outcomes?*
- *What changes can be done at the school, district, and state level that would start to build equitable, sustainable capacity? How can changes be taken to scale? What role can federal policies play to insure consistency across states?*



9:00-9:45	Welcome and Introduction to the Report Heidi Schweingruber, Director, <i>Board on Science Education</i>
	David Francis (committee chair), Hugh Roy and Lillie Cranz Cullen Distinguished University Chair, Director of the Texas Institute for Measurement, Evaluation, and Statistics, Director of the Center for Advanced Computing and Data Science <i>University of Houston</i>
9:45-10:30	Fireside Chat K. Renae Pullen (committee member), <i>Caddo Parish Public Schools, Louisiana</i> Kyndall Brown, Executive Director, <i>California Math Project</i> Dawn O'Connor, Director of STEM, <i>Alameda County Office of Education</i>
10:30-10:45	Break
10:45-12:00	Panel: Preparation of Educators to Teach STEM to ELs <u>Moderator:</u> Judit Moschkovich (committee member), Professor of Mathematics Education <i>University of California, Santa Cruz</i>
	<u>Panelists:</u> <ul style="list-style-type: none">• Zandra de Araujo, <i>University of Missouri</i>• Susan Gomez Zwiep, <i>California State University, Long Beach</i>• Jingzi Huang, <i>University of Northern Colorado</i>
12:00-1:00	Lunch and Informal Discussions

1:15-2:30	Panel: ELs' Access to STEM Learning Opportunities – Building Systemic Capacity
	<u>Moderator:</u>
	Megan Hopkins (committee member), Assistant Professor of Education Studies <i>University of California, San Diego</i>
	<u>Panelists:</u>
	<ul style="list-style-type: none">• Elvira Armas, Director of Programs and Partnerships, <i>Center for Equity for English Learners (CEEL)</i> and Affiliated Faculty, <i>Loyola Marymount University</i>• Manuel Buenrostro, Education Policy Analyst, <i>California School Boards Association</i>• Gudiel Crosthwaite, Superintendent, <i>Lynwood Unified School District</i>• Claudio Vargas, Educational Consultant, <i>Sci-Lingual LLC</i>
2:30-2:50	Reflections from the Sponsor
	Julio López-Ferrao, Program Director, Division of Research on Learning in Formal and Informal Settings, <i>National Science Foundation</i>
2:50-3:00	Final Thoughts from the Committee Chair
	David Francis, <i>University of Houston</i>
3:00	Adjourn