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

Tuesday, February 12th, 2019
9:00 am - 12:00 pm
Lecture Room, NAS Building

9:00-9:30 Welcome and Introduction to the Report
Heidi Schweingruber, Director, Board on Science Education
David Francis (committee chair), University of Houston

9:30-10:30 Panel: Engaging Families and Communities
How can we ensure that teachers and schools feel equipped to engage families and communities throughout ELs’ STEM learning? How can we foster collaborations and partnerships between schools and local communities?

Moderator:
Christine Cunningham, Museum of Science, Boston

Panelists:
- Sil Ganzó, ourBRIDGE for Kids, Charlotte, North Carolina
- Andrés Henríquez, Vice President of STEM Learning in Communities, NYSCI (virtual)
- Carla Johnson, Purdue University
- Christine McWayne, Tufts University

10:30-10:45 Break

10:45-11:45 Panel: Creating a Supportive Policy Context
What role can federal policies play to insure ELs have access to rigorous STEM learning opportunities? What changes need to be made to reduce potential barriers to access as well as promote consistency across states?

Moderator:
David Francis, University of Houston

Panelists:
- Anita Bright, CAEP/TESOL International Program Coordinator, Portland State University
- Julie Sugarman, Migration Policy Institute
- Debbie Zacarian, Debbie Zacarian, Ed.D. & Associates, LLC (virtual)

11:45-12:00 Wrap up/Closing Reflections
David Francis, University of Houston

12:00-1:15 Lunch
Science and Engineering for Grades 6-12: Investigation and Design at the Center
Tuesday, February, 12th, 2019
1:15 - 5:00 pm
Lecture Room, NAS Building

1:15-1:45 Welcome and Introduction to the Report on Investigation and Design
Heidi Schweingruber, Director, Board on Science Education
Nancy Songer, Drexel University School of Education
(committee co-chair)
Brett Moulding, Partnership for Effective Teaching and Learning (committee co-chair)

1:45-2:45 Panel-Investigation and Design in the Classroom
• What are the roles of teachers and students when investigation and design are at the center?

Moderator: Brett Moulding
Andrea Tracy, Lawton High School
Matt Krehbiel, Achieve
Jaclyn Austin, Howard County Public Schools

2:45-3:00 Break

3:00-4:00 Panel-Resources for Investigation and Design
• What is necessary to support teachers in the new approach? How can we ensure teachers have the appropriate preparation, professional learning opportunities, instructional resources, facilities, equipment, and supplies?

Moderator: Juan-Carlos Aguilar
Kate McNeill, Boston College
Ann Rivet, Columbia University
Jim Ryan, OpenSciEd (participating virtually)

4:00-4:45 Discussion-How to Build an Inclusive System
• What are the roles that leaders of schools, school districts, and state departments of education need to perform in order to build and maintain an inclusive system for science and engineering education that engages all students in investigation and design?

Moderator: Nancy Songer
Maya Garcia, Office of the State Superintendent of Education, District of Columbia
Carla Johnson, Purdue University
Diane Jass Ketelhut, University of Maryland

4:45-5:00 Closing Reflections
Committee Sponsors: Scott Heimlich (Amgen Foundation) and Jim Short (Carnegie Corporation of NY)
Committee co-chairs Nancy Songer and Brett Moulding

5:00 Adjourn