



2nd Advancing Excellence in P-12 Engineering Education Symposium

Equity Through Engineering Curriculum & Pedagogy

Agenda

Date(s): Tuesday May 29th - Thursday May 31st, 2018
Location: Engineer's Club
Address: 11 W Mt Vernon Pl, Baltimore, MD 21201
Location POC: Michael Grubbs, Greg Strimel, Tanner Huffman, Jamie Gurganus

Project Overview

The *Advancing Excellence in P-12 Engineering Education (AEEE) Project* and the 2nd AEEE Symposium seek to provide two powerful benefits: first, promote collaboration to pursue a vision/direction for P-12 Engineering Education; and second, the development of a coherent content framework for scaffolding the teaching of engineering and design at the high school level. The 2nd AEEE Symposium will specifically focus on the theme of *Equity Through Engineering Curriculum & Pedagogy* and build upon the resulting work from the 1st Symposium which included a defined *Taxonomic Structure of Engineering Concepts and Progressions of Learning in Engineering (PLiE)* for secondary school programs. During the 2nd AEEE symposium, participants will hear from national leaders in engineering education, industry, and curriculum development to serve as provocateurs as they work in breakout groups to review and refine the PLiEs and recommend culturally-relevant engineering instructional vignettes and activities. We, and our sponsors, hope that this work will serve as a basis for further thought and action to address the paucity and rigor of engineering education at the P-12 level.

By the end of this symposium, the following outcomes will have been met.

- Discuss multi-year AEEE scope and research agenda
- Share the symposium desired outcomes
- Solicit feedback on the established Progressions of Learning in Engineering
- Develop culturally relevant engineering instructional vignettes
- Establish a conceptual framework of P-12 Engineering Education



Tuesday
12:00 p.m. to 7:30 p.m.



Topic	Person Responsible	Time Frame
Arrival, Registration, Networking <i>Washington Monument Tour</i>		9:00 a.m. – 11:00 a.m.
LUNCH and Overview <ul style="list-style-type: none"> • Greetings & Introductions • Proposal & Desired Outcomes 	Michael Grubbs, Tanner Huffman, Greg Strimel, Jamie Gurganus <i>Project Coordinators</i>	12:00 p.m. – 1:00 p.m. <ul style="list-style-type: none"> • 12:00 <i>Lunch</i> • 12:20 <i>Introductions</i> • 12:45 <i>Overview</i>
Keynote	Gary R Bertoline, Ph.D. <i>Purdue Polytechnic Institute Dean and Distinguished Professor</i>	1:00 p.m. – 1:45 p.m.
Eastern Technical HS: Plans, Lessons Learned, Next Steps	Invited Presenters <ul style="list-style-type: none"> • <i>Angela Waldrop, Teacher, BCPS</i> • <i>Ruth Akers, Resource Teacher, BCPS</i> • <i>Michael Grubbs Coordinator, CTE, BCPS</i> 	1:45 p.m. – 2:15 p.m.
AEEE Living Wall		2:15 p.m.– 2:30 p.m.
Introduce Revised Engineering Taxonomy and Progressions of Learning	Leads: Tanner Huffman , Greg Strimel, Michael Grubbs All: Gallery Walk	2:30 p.m. – 3:00 p.m.
Subcommittee Collaboration: Fundamental/Technical Elements <ul style="list-style-type: none"> • Review Learning Progressions • Draft Instructional Vignettes 	All	3:00 p.m. to 5:00 p.m.
Break		5:00 p.m. to 5:30 p.m.
Dinner and Reception (Bar Service)	<i>Sponsored by: SDI Innovations</i>	5:30 p.m. to 7:30 p.m.



**Wednesday
8:00 AM – 5:00 PM**



Topic	Person Responsible	Time Frame
Breakfast		7:00 AM – 8:00 AM
Revisit Overall Mission	Tanner Huffman, Greg Strimel, Michael Grubbs, Jamie Gurganus	8:00 AM – 8:30 AM
Culturally Relevant Pedagogy	Nancy Shapiro, Ph.D. <i>Associate Vice Chancellor for Education and Outreach at the University System of Maryland</i>	8:30 AM – 9:15 AM
Culturally Situated Instructional Activity	Invited Presenters first hour <ul style="list-style-type: none"> • Nathan Mentzer • Texas Instruments 	9:15 AM – 10:45 AM
Travel to Open Works		10: 45 AM-11:00 AM
Lunch	<i>Sponsored by: Texas Instruments At Open Works</i>	11:00 PM – 12:00 PM
Subcommittee Collaboration: Technical Elements <ul style="list-style-type: none"> • Review Learning Progressions • Draft Instructional Vignettes 	All	12:00 PM – 5:00 PM
Travel to Stadium		5:00 PM – 5:30 PM
Dinner: At Orioles Stadium		5:30 PM – 9:00 PM

**Thursday
8:00 AM – 12:00 PM**

Topic	Person Responsible	Time Frame
Breakfast		7:00 AM – 8:00 AM
Share Out of Committee Work	All	8:00 AM – 9:30 AM
Eastern Technical HS Feedback	All (Gallery Walk)	9:30 AM – 11:00 AM
Lunch/Report Feedback	<i>Compliments of AEEE</i>	11:00 AM – 11:30 AM
Next Steps	Michael Grubbs, Greg Strimel, Tanner Huffman	11:30 AM – 12:00 PM
Adjourn/Advisory Meeting		12:00 PM – 1:00 PM

