



OPAS Motivate Workgroup Project  
**Engineering Frosh Survey: Does OST  
 Matter?**

February 10, 2009 – PSU MCECS

**Expected/Possible Attendees:**

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**Agenda:**

10:00 – 10:10	Introductions
10:10 – 10:30	Overview of the Project <ul style="list-style-type: none"> <li>• What</li> <li>• Who</li> <li>• When</li> <li>• Other logistical considerations?</li> </ul>
10:20 – 10:35	What information do you want out of this? <ul style="list-style-type: none"> <li>• PSU</li> <li>• OSU</li> <li>• OIT</li> <li>• EOU (if present)</li> <li>• OPAS</li> </ul>
10:35 – 11:55	Review the Draft Survey and Revise
11:55 – 12:00	Do we need to meet again? When?

### Draft Survey Goals:

- **Target Population:** university and college first-year students enrolling in engineering or computer science programs at Oregon schools.
  - Joyce Cresswell at Saturday Academy has agreed to administer the relevant parts of the survey to her Apprenticeships in Science and Engineering (ASE) students; we already know about 75% of them will study in the discipline of their apprenticeship.
- **Intended Use of the Data:**
  - determine what these students consider the most important influences inspiring them to study engineering and/or computer science.
  - Admission factors?
  - Retention factors?
- **Future Uses of the Data and Survey:**
  - help document the ability of OST programs to inspire students to seek out similar experiences as students get “handed off” from one program to another.
  - Admissions?
  - Retention?

### Draft Key Questions:

- Which OST programs are engineering students most likely to have participated in in K-12
  - By brand
  - By type (academic, athletic, artistic)
  - By content area
- What are the most important, to student perceptions, elements of such programs
- Demographic info
- Other influencers: close relative/friend who is an engineer; teacher; in-class work

### Draft Survey

- Were the out-of-school-time activities you participated in mostly:
  - Athletic
  - Academic
  - Artistic
- Were the out-of-school-time activities you participated in:
  - Competitive
  - Non-competitive (exhibitions, projects, publications, community service)
- The out-of-school-time activities you participated in were about what subject/disciplines:
  - Drama/Thespian (examples ...)
  - Visual Arts (e.g. ...)
  - Competitive team sports
  - Recreational team sports
  - Music performance (band, choir, marching band, orchestra)
  - Knowledge games (Matchwits, Science Bowl ...)
  - Engineering

- Robotics
- Business
- Speech/Debate, Mock Trial, Girls' State etc.
- Math
- The “brand name” of the out-of-school activities:
  - Saturday Academy
  - FIRST LEGO League (FLL, ORTOP)
  - FIRST Tech Challenge (FTC, FIRST VEX Challenge, VEX Robotics)
  - FIRST Robotics Challenge (FRC)
  - Science Bowl
- Important Program Elements: *(This language really needs reworking?!?!)*
  - Physical and psychological safety
  - Supportive relationships
  - Opportunities to belong
  - Positive social norms
  - Support for efficacy and mattering
  - Opportunities for skill-building
  - Integration of family, school, and community
  - Appropriate structure
  - Opportunities to work as part of a team
  - Opportunities to win recognition
    - Within the group
    - Within the school or community