Transforming Undergraduate Education in Engineering
Phase III: Voices on Women's Participation and Retention

June 12-13, 2015 | The W Seattle Hotel, Seattle, WA

Breakout Session III: Industry

- Industry/ University Alignment
- Turn conversation into something we can act on. Mover from victim language to owners (actors)
  - We need a "to-do list
- Change /influence tech companies to remove tech interviews
- Role industry can play by putting in some inventive/ expectations led by industry
- Expectations
  - Industry role in expanding competent + amount of talent
  - What's important to industry?
  - Listening exercise
  - Develop great ideas on partnership +ways for industry to step up
  - Expecting industry to maximize on investment/ impact on $ being expended in this area
  - University + industry are talking
- University needs from industry
  - Relevant profession skills set
  - Basic skills set read
  - Find worth wile areas of synergy, much higher investments. Ex 5k example
  - Industry asking for data; transformative solutions + make it explicit including accountability
  - Have companies looked at faculty
  - Start earlier w/students Ex. Bridge, co-horts
  - Ball- god example # 1 goals
    - Education of these student + put student first w/ financial support
  - Industry commitment
  - Student leadership conference
    - Industry owns + drives w/a different voice
  - Industry sharing stories in person
    - Ex. Power hour
  - Provide opportunities – human + dollars Ex. Interns
  - Remove barriers Ex. 3.5, 3.0
  - Integration into cultural difference
- Industry is looking to get from University

- o Can you apply knowledge to real world application?
  - o Students who embrace continuous learning + suite of professional skills, play well with others +defend what they believe
  - o Longer term relationship w/ students to give access to help develop students
  - o Star faculty teaching freshmen
  - o How do you take convo
  - o Update curriculum to today's environment
  - o Retain students
- What industry needs from University?
- Other ideas
  - o Ignoring large pool of minority students can we address the population that aren't accepted into engineering
  - o Faculty of color
  - o Is there a better way to evaluate students beyond GPA. Student index?
  - o Meaningful partnerships between industry + university
    - Ex. Framework for engagement plug n play model
    - Ex. Capacity building dealing w/equity + access (right mix of faculty)
  - o Modernized curriculum "award" / Star Faculty teaching freshmen
  - o Diversity accountability from industry to University
    - Ex. How well you are retaining + graduating Diverse students