

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 II: Dashboard

Dashboard

- 3 priorities for dashboard
- Metrics list.... Who is it for? (users)
- Who drives it? Concept of normalizing data to support equity allow for comparison
- What do we want to accomplish user/solve
- Raise visibility of diversity
 - Provide data for market place ("A", "B", "C" group)
 - Provide in-college insights
 - Platform for competition to improve
 - Provide corporations insight into college commitment to diversity
- What is available
 - ASEE enrollment data for all years by discipline race +gender (profile). Profiles 380 institutions
 - ASEE retention 120 institutions of full time, first time students, by demographic for all years by gender, race (not discipline)
 - ASEE graduation data by gender, race + ethnicity (120 institutions reporting)
 - ASEE faculty data by gender, race, ethnicity, professional rank, salary by rank. (180 institutions reporting)
 - Remember: race + gender are becoming more, fluid in our society. Is mostly self-reported data, and mostly based on incoming identity
 - IPED (Dept of Educ) data at institution level. ENGR data is available within IPEDS (Something strange re: CS). What? Student data. Does not match ASEE data...
 - ASEE data does not include all accredited colleges (incomplete data)
- Dashboard contents:
 - % or # applied, admitted, (confirmed), enrolled by race, gender
 - Demographic breakdown of ENGR graduates
 - Retention (use ASEE definitions)
 - Demographics of faculty, broken down by TT + non- TT instructional faculty research faculty (not post-doc because data not available)
 - Demographic of leadership : Deans, Dept. heads, Assoc. Deans (data missing)
 - Define brackets for gold, silver, bronze (judgment band)

- Growth dimension that recognizes + rewards year –on-year improvement
- Some “availability pool” metric (regional demographics vs. institutional)?? Not vetted enough
- Three things to do now:
 - Collect Data
 - Create dashboards/ Score card
 - Define brackets: gold, silver and bronze
 - Turn data into actionable info
 - Awards based on dashboard
 - NAE, ABET, ASEE, NSF
 - Societies publish dashboard to their membership
 - Recognize growth and reward year – to – year improvement