

# Overview of Survey Results and Other Thoughts

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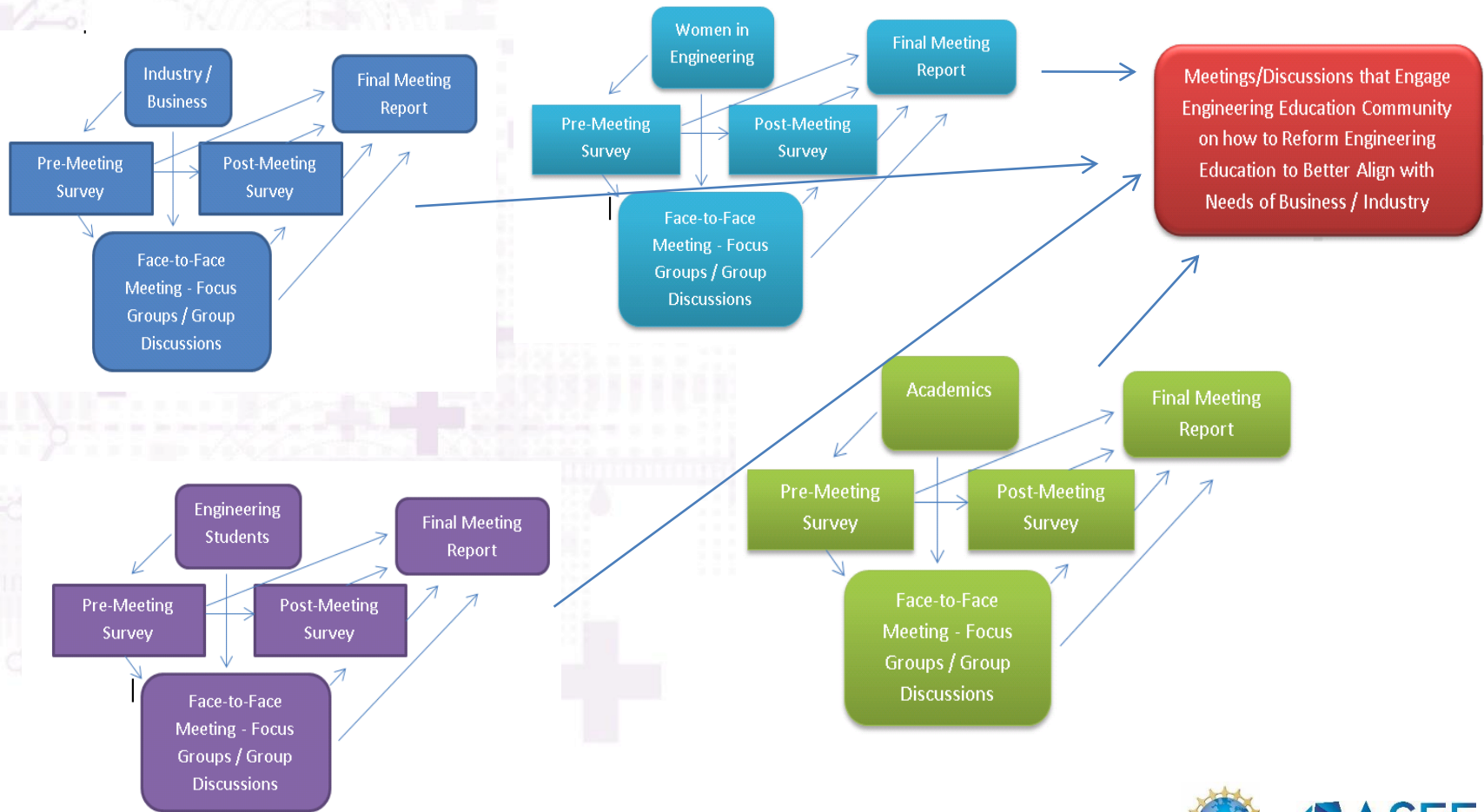
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# TUEE Transforming Undergraduate Education in Engineering

## Phase III: Voices on Women's Participation and Retention

### TUEE data collection for community engagement



# Summary of TUEE I

## Results from Survey / Meeting with Business / Industry

- Engineering graduates are well prepared with hard skills – math / analytical skills
- Engineering graduates do not have well developed professional skills / communication skill
- Almost all knowledge, skills and abilities are important for new engineering graduates to be successful now.
- Almost all knowledge, skills and abilities will be MORE IMPORTANT for new engineering graduates in 10 years

# Summary of TUEE II

## Results from Survey / Meeting with Students

- Students answers to the importance of KSAs matched the level of importance ascribed by industry in 10 years
- Students perceived level of importance of KSAs for the engineering profession matched the students perceived level of importance ascribed by schools for hard skills.
- Students perceived level of importance of KSAs for the engineering profession was higher than students perceived level of importance ascribed by schools for professional / communication skills.

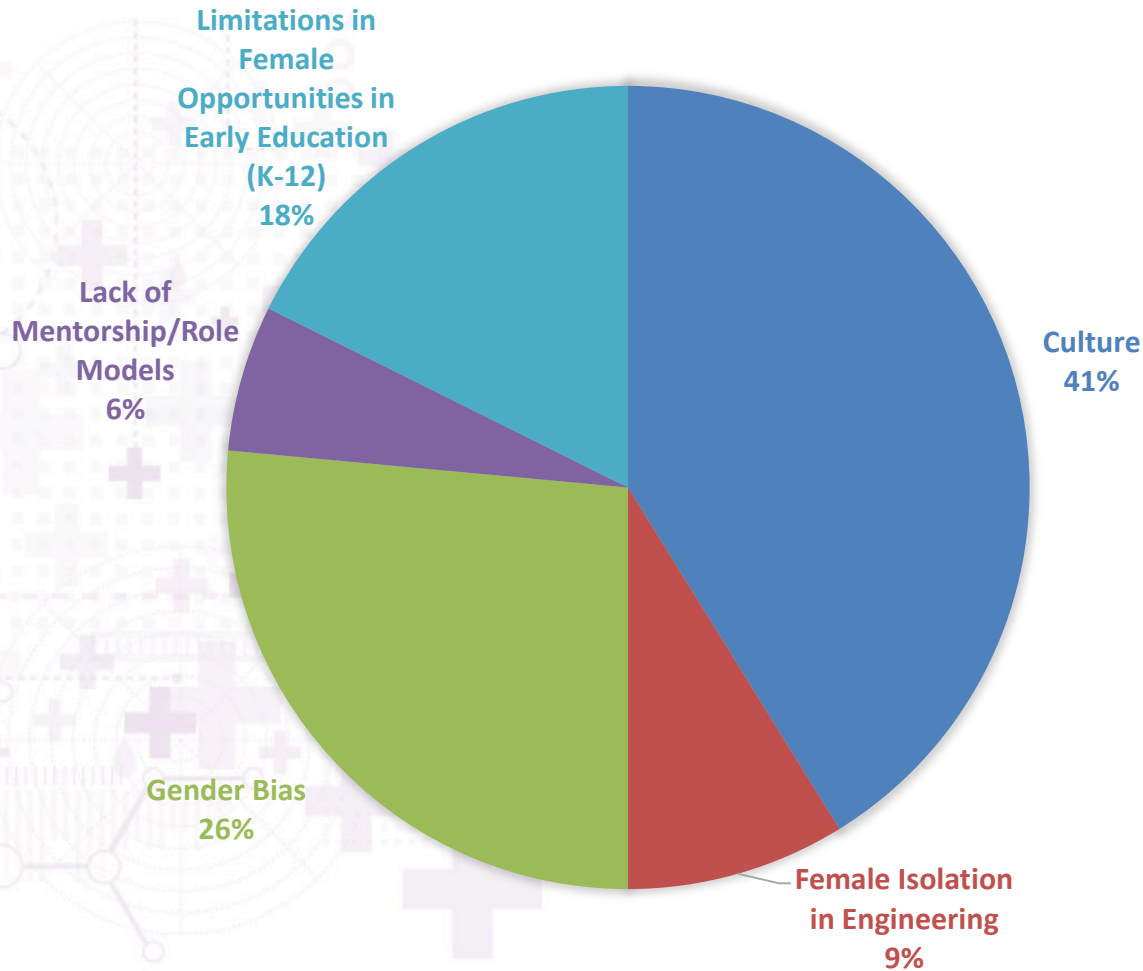
# Pre-Meeting Questions

What do you perceive as the primary barrier to women's participation in engineering?

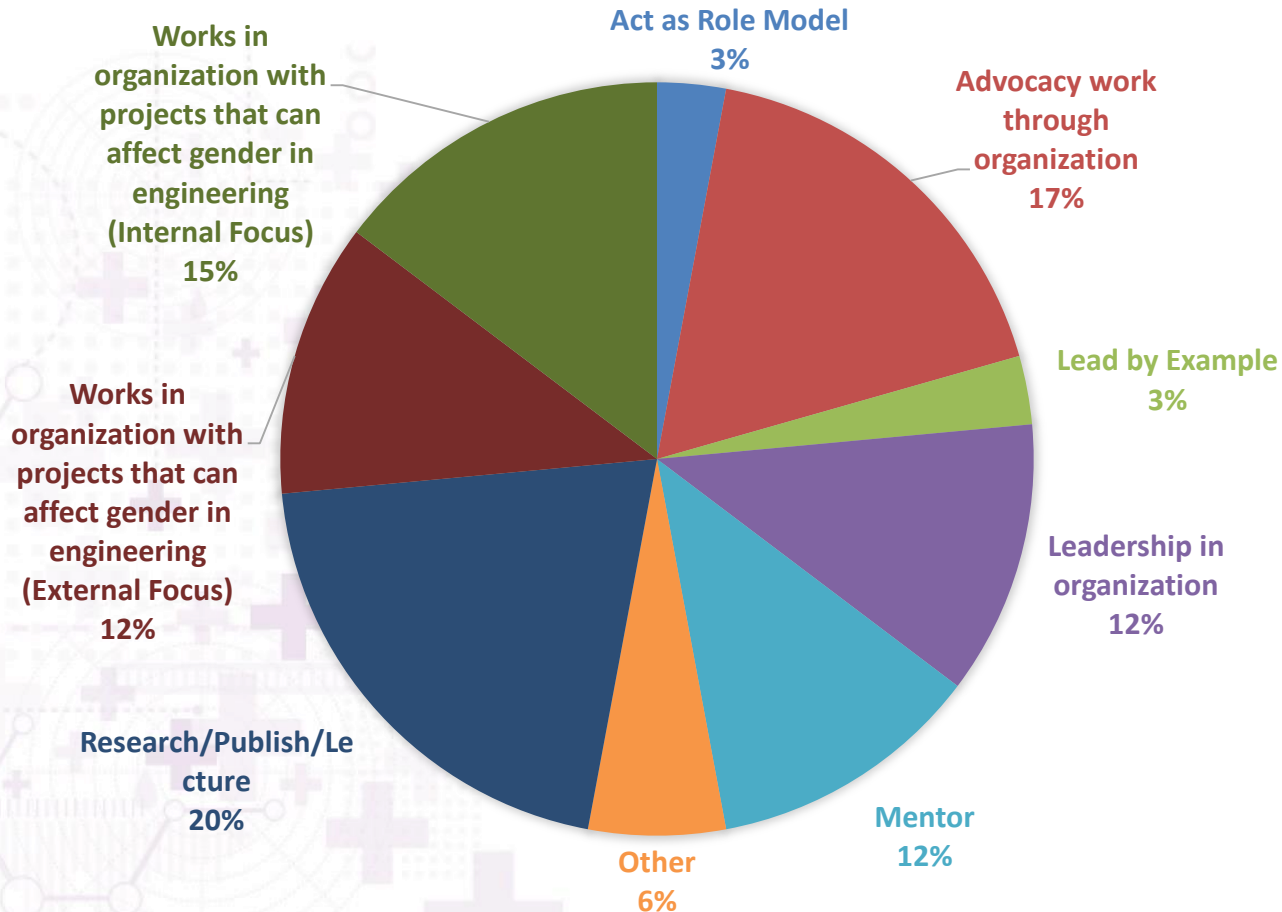
What can/have you do/done as an individual to address this barrier?

What can organizations (academia, industry, government, other) do to address this barrier?

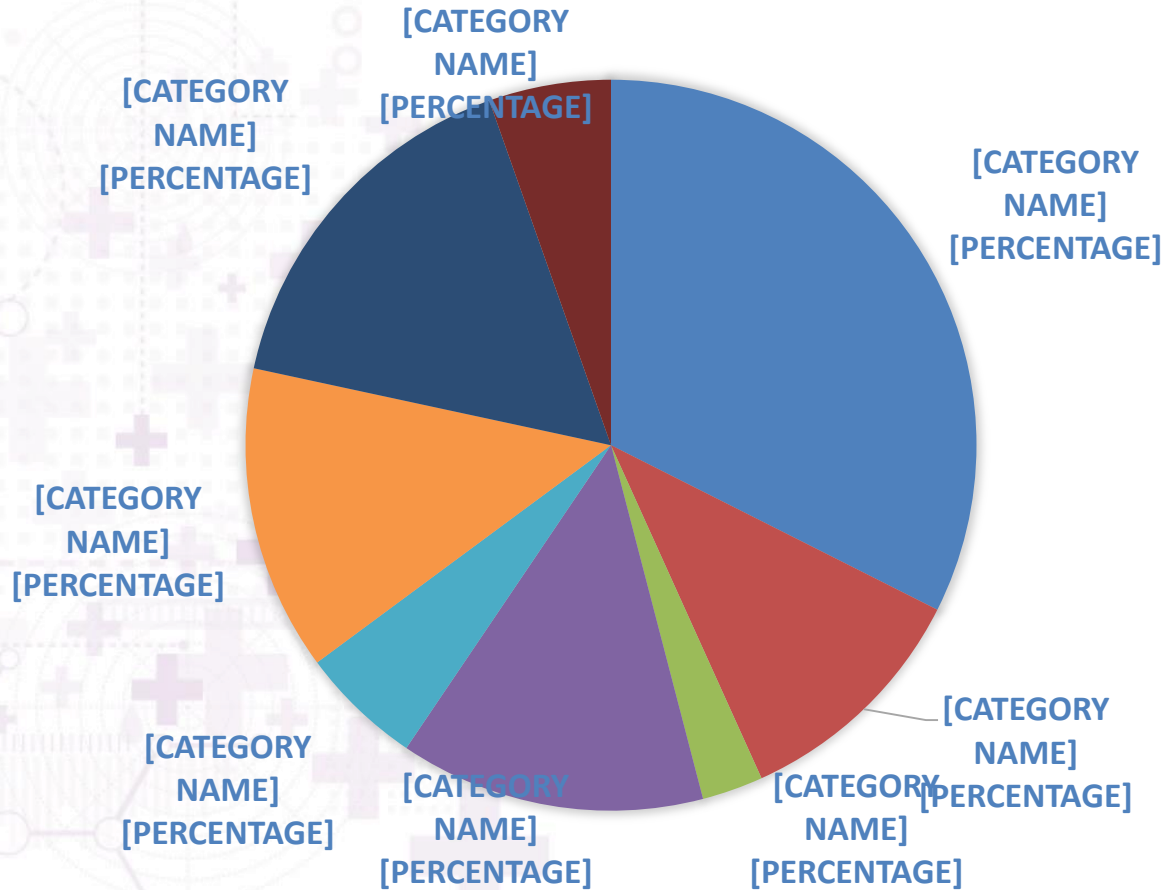
# Primary Barriers



# Have done as individual?



# Which Type of Organization?





# Theories of Change

- A thousand points of light – the net effect of the one thousand small things we do, will have an affect on engineering education and engineering as a profession nationally.
- As more women come into engineering education and become engineers, engineering as a profession will become more accommodating to women.
- Mandate from above – ABET set requirements for inclusion as part of the accreditation process.
- Disruptors blow up systems which are replaced by new ones.

INSIDE THIS WEEK: TECHNOLOGY QUARTERLY

# The Economist

MAY 30TH - JUNE 5TH 2015

Economist.com

America  
takes on FIFA

Shrinking cities

China's stockmarket bubble

Is there life on one of Saturn's moons?



## The weaker sex

No jobs, no family, no prospects



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





Thank you!