Personal Stories
and
Introduction to Jigsaw

PEERs Seminar
Week 2
Week 2 Outline

• Announcements
• Personal Stories
• Importance of diversity
• Stuck in the Shallow End discussion
• Introduction to Jigsaw I
Announcements

(1) Access to readings, Catalyst?

(2) Moving project presentations

(3) One more discussion ground rule
Student-submitted addition to last week’s ground rules

“Please do not disrespect other people's ideas when discussing your opinions about them. But try to see how your ideas relate/refute theirs and incorporate it into your ideas.”
Personal Stories
Personal Stories

(1) Ours
(2) Readings
(3) Yours
Reading Assignment

Discussion Questions (in pairs)

• What is your personal engineering story? What lessons about diversity, leadership, and engineering can you contribute?
• How do you negotiate your own identity as an engineer with your other identities (e.g., family, racial, gender)
Takeaways

- Our backgrounds influence our academic selves
- Individual experience intersects with group experiences (Can’t assume that all members of a group have the same preferences or experiences)
- We all have multiple identities; importance of intersectionality
Why Diversity Is Important
Reading Assignment

Benefit of diversity

N = 29 juries (6 people each)
Benefit of diversity

Diverse juries

More information exchange
  • Took longer
  • Discussed more case facts
  • Discussed more missing evidence

More accurate
  • Fewer inaccurate statements
  • Fewer uncorrected inaccuracies

More openness to discussing race
  • Discussed more race-related topics
  • Fewer objections to considering race

Almost all driven by Whites!
Benefit of diversity

Whites’ in diverse groups less likely to vote guilty, even before deliberations began

In diverse juries, Whites are:

– Reminded to not be prejudiced
– Processing trial info more closely
– More receptive to discussing racism
Examples of why diversity is important to engineering

• Innovation and creativity
  – Telephone
  – Vibrating and alphanumeric pagers

• Design flaws in absence of diversity
  – Car air bags (sized for adult male bodies)
  – Artificial heart valve (sized for male heart)
  – Voice recognition systems and video conferencing systems (calibrated for male voices)
  – CAEE retaining wall
  – CAEE playground design

• Missing out on talent

• Higher levels of complex thinking, greater range of perspectives, and willingness and ability to change [1]
Takeaways

• Diversity can be beneficial because it provides multiple perspectives
• Makes others aware of importance of diversity
Group Discussion

Why swimming?
Group Discussion

Why swimming?

(1) History of denied access
(2) Underrepresentation rationalized as “natural”
Jigsaw I
Expert Jigsaw Model for Small Group Work

Home Groups

1 2 3
1 2 3
1 2 3
1 2 3

Expert Groups

1 1
2 2
1 1
2 2
3 3
3 3

LEARN

TEACH
Expert Jigsaw Model

• Each person will have a home group
• Home groups will send representatives to expert groups
• Each expert groups will read a set of articles and become the experts on that topic
• The next class, convene in home groups and teach your home group about what you learned in the expert groups
Expert Group Work (next week)

- Read same set of articles
- Submit assignments related to readings via Catalyst
- Discuss responses to questions in Catalyst (20 minutes)
- Discuss what about your topic would be most useful to share with other engineers
- Determine what from your topic you will present to your home group. Will have 5-7 min to present your topic
- Goal for teaching home group: Your home group members understand the topic well enough that they could teach others about that topic
- Follow discussion ground rules
## Group Assignments

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<thead>
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<th>Group A</th>
<th>Group B</th>
<th>Group C</th>
<th>Group D</th>
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<tbody>
<tr>
<td>Akavin</td>
<td>Edison</td>
<td>Dale</td>
<td>Don</td>
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<td>Shiri</td>
<td>Victoria</td>
<td>Lisa</td>
<td>Allison</td>
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<tr>
<td>Trent</td>
<td>Tanner</td>
<td>Megan</td>
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<td>Kimberlee</td>
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Determine who will be group’s representative to each topic:

- **Biology, Talent & Hard Work**
- **Stereotypes & Stereotype Threat**
- **Socialization**

Complete sign-up sheet indicating your topic
Assignments for Week 3

• Reading Assignment
  – Readings are specific to the Assigned Jigsaw I Topic (See Syllabus, Page 6)

• Complete Catalyst WebQ specific to jigsaw readings related to the reading assignment – due MIDNIGHT day before class

• Plan Jigsaw I expert group material
Minute Paper

(1) Biology, Talent and Hard Work
   • What have you heard about biological differences in mathematical skills between the genders? What do you think of these ideas?

(2) Stereotype Threat
   • How do you think awareness of stereotypes about one's group might affect one's thinking and performance?

(3) Socialization
   • How do you think socialization affects the experience of girls and boys when it comes to engineering, math, and sciences?