



Who's Not At The Table?: Building Research Capacity for Underserved Communities in Engineering

Oct 30 – Nov 1, 2016 Clemson, SC

Handout # 6 (a) Data Analysis & Concept Mapping *small group activity*

Sit with your assigned group (group numbers are on your name tags).

Your assignment:

- Assign a scribe, a reader, and a time-keeper for your group.
- You are tasked with helping to begin the analysis of the data collected from conference participants.
- Your “data” consists of multiple sticky notes containing ideas and reflections recorded by participants yesterday. Your group will work with data from 1 of the 5 conference threads.
- Your goal is to develop a concept map using the data collected yesterday. To do this, your table will be given a large sheet of “butcher” paper on which to record your concept map.
- You will then use the concept maps to develop themes from your concept map and report out.

This session will be broken up into the following:

- Grouping (20 min) –The reader will read aloud the content on sticky notes you have been assigned. Discuss how to group sticky notes into “like” concepts. Move sticky notes so that like ideas share the same physical space. Your concept map is starting to form! Be sure not to lose individual ideas or “invisible” voices in the process of mapping—everything is significant, and it’s important not to lose these ideas as you go.
- Adding (10 min)- Spend 10 minutes **individually** adding additional elements to the groupings your table just created. Ask yourself: Now that I see how concepts are developing into themes, **what is missing?**
- Theming (15 min)—Develop **names** for the themes or categories that are emerging in your concept map. Decide if and how the themes are related to one another.
- Reporting (15 min)—As a group, decide what you will report out in the next session. The scribe will record the group’s ideas. Ask for one person at your table to serve as the reporter during the next session when each group will summarize their report to the large group.
- We will be collecting this handout as well as the “butcher” sheet at the end of the large group session.

Reference this handout:

Martin, J.P., Stefl, S.K., Slaton, A. *Developing a National Research Agenda: A Data Collection and Community Engagement Model*. In Proceedings of the 2017 American Society for Engineering Education Annual Conference and Exhibition.
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