

Solid and Hazardous Waste Management (#2)

Mindfulness

Any thoughts or questions?

Where we're at

Elizabeth's introduction and slides

Learning objectives

1. Define solid waste.
2. Define hazardous waste.
3. Identify and define the solid and/or hazardous waste streams in different project areas.
4. Generate exploratory intervention ideas related to different project areas.

Review from Tuesday

- ▶ Is everybody feeling okay with the collective feedback and grading plan?

Review from Tuesday: interventions have consequences

- ▶ Everything is interconnected.
- ▶ The interventions we make and solutions we design impact behavior and decision making.
- ▶ We should consider the potential consequences of our designs/interventions/actions.

Review from Tuesday: some initial definitions of waste

- ▶ Definition of waste as "stuff we can no longer use."
 - ▶ "we" can be different people/systems/ecosystems/etc.
 - ▶ nice solutions connect one "we's" waste with another "we's" food/resource/etc..
- ▶ What about the "solid" part?
- ▶ What about the "hazardous" part?

Somewhat related to definitions: how do project topics fit in with EEE curriculum?

- ▶ Goal is to work on projects and learn material you can't learn elsewhere in the EEE curriculum.
 - ▶ EAEE 4210 THERMAL TREATMENT-WASTE/BIO MAT
 - ▶ EAEE E4150 AIR POLLUTION PREVENTION/CONTR
 - ▶ EAEE E4951 Engineering systems for water treatment and re-use.
 - ▶ EACE E4163 Sustainable Water Treatment and Reuse.
 - ▶ EAEE E4950 ENVIRON BIOCHEMICAL PROCESSES

Group activity

- ▶ Introduce yourselves (names and pronouns)
 - ▶ Share your project ideas, topics, and/or questions and confusion
- ▶ For each project idea/topic try and define:
 1. What are the waste(s) you are working with?
 2. Are the waste(s) solid? And/or under what conditions are they solid?
 3. Are the waste(s) hazardous? And/or under what conditions are they hazardous? To what/whom are they hazardous?
 4. Are there any other systems that could use the waste(s)? What processes/transformations would improve utilization?
 5. What are some possible interventions or culminating deliverables for this project?
- ▶ Do you want to dive right in or have me demo this first?

Next activities: choose our own adventure

- ▶ Flip through notes on project ideas
- ▶ Research approach (google scholar, CLIO, web of science, nypl)
- ▶ Take time to fill out survey
- ▶ Return to Groups for more project discussion
- ▶ Return to Groups for image hunt

Did we meet our learning objectives?

For Tuesday (September 10th)

- ▶ **Important:** if you have not already, fill out the survey by tonight.
- ▶ Expect an email from me Friday or Saturday introducing your groups.
- ▶ Read through your group-mates' responses and think about project ideas for Tuesday's discussion.