

SPEAKER NOTES

SLIDE 1:

- Welcome to MYO
- This workshop is called “Just Keep Swimming”

SLIDE 2:

- Lets have everyone introduce themselves (lead and volunteers)

SLIDE 3:

- What is water filtration?
 - Get's rid of things that are bad for us to consume or use
 - Make's clean water to improve our health

SLIDE 4 & 5:

- So what does water filtration have to do with engineering?
- The two engineering majors this relates to are chemical and environmental
- Chemical engineering designs engineering processes by using chemistry concepts
 - Made portable drinking water
- Environmental engineering uses engineering, earth science, biology, and chemistry to solve problems with our environment
 - Tackle problems like water pollution and how that affects animals, land, and humans

SLIDE 6:

- What is an oil spill?
- We haven't had one in a while (thankfully) - most memorable one was 2010 BP gulf coast oil spill

- In the gulf of mexico, an oil rig exploded from built up methane gas below the ocean floor -> causing mass amounts of oil to spill out into the ocean
 - Approximately 210 million gallons of oil
 - Affected the amount of land equal to the size of oklahoma (pretty big impact!!)

SLIDE 7-9:

- Let's try to make our own water filters
- Introduce the materials and what they represent
- Have them follow step by step and let them experiment with filtration methods

SLIDE 10:

- When everyone seems done bring them back in for discussion questions
- Have them talk with a friend and then share out with the group
 - 1. Reflect on the results
 - 2. Think of better ways to solve OR prevent the problem