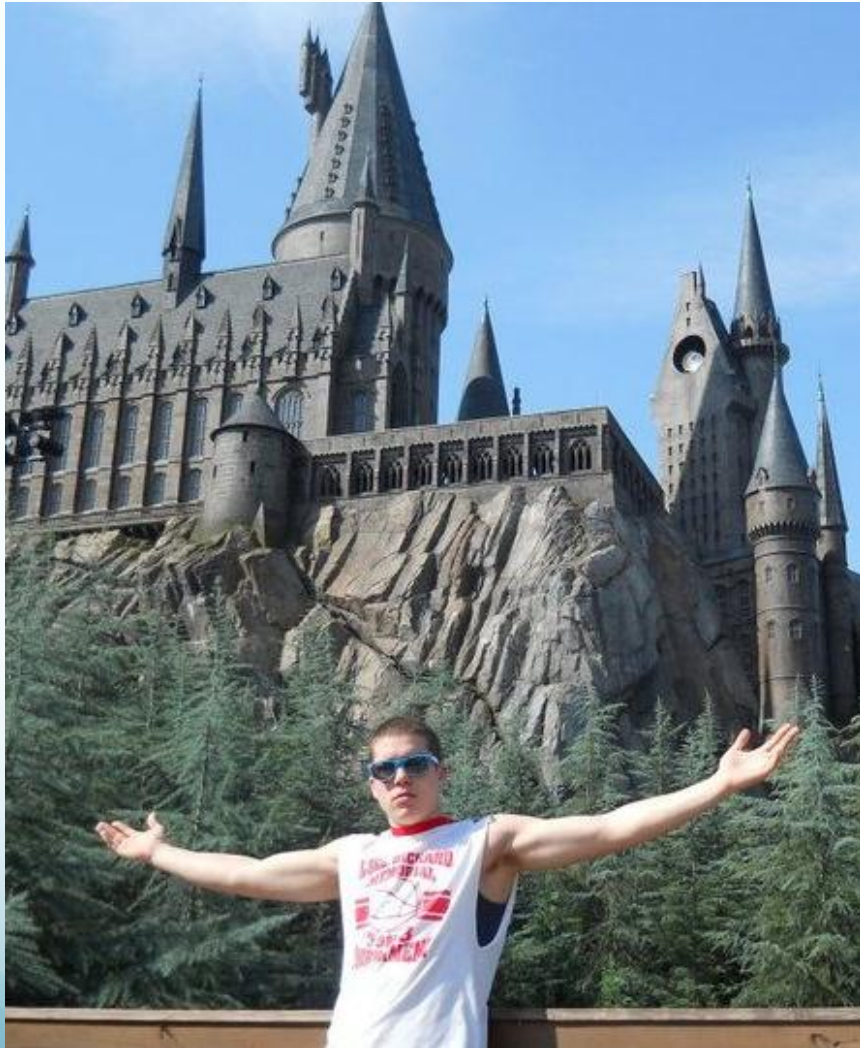


Team 5

Sustainability of Technology

- Cody Dirlam
- Omar AlAli
- Ryan Briglia
- Loloh AlHadlaq

Cody Dirlam



Harry Potter World at Universal

Class: Sophomore

Major: Chemical Engineering
(Energy Fuels Option)

Future: I hope to one day work in the energy industry helping to create new forms of renewable energy

Hobbies: Literally any sport, people watching

Activities: Morale for THON, Canyon on the weekends

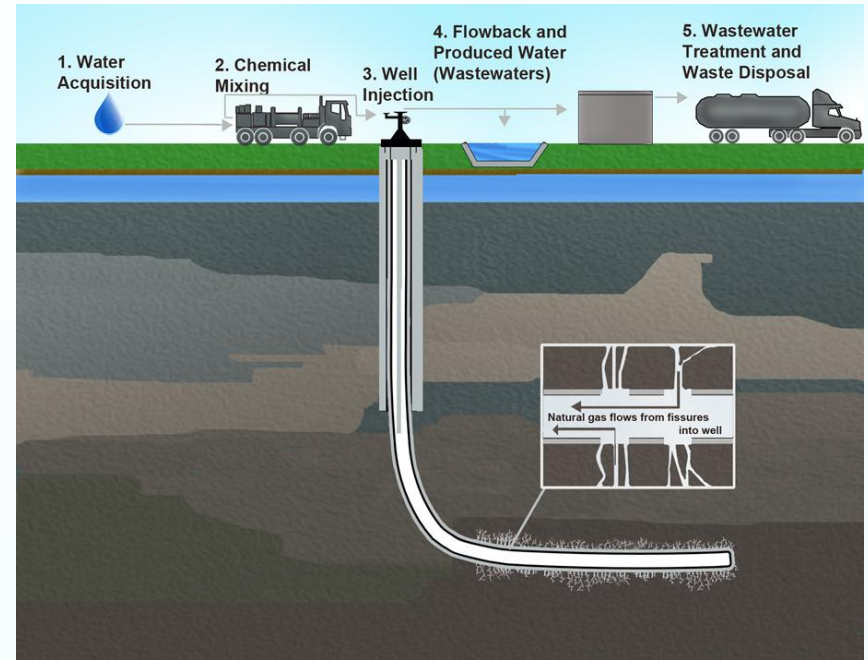
Hero: Muhammad Ali

Favorite Movie: Miracle

“Believe deep down in your heart that you’re destined to do great things.”- Joe Paterno

Hydraulic Fracturing

- Need: Extensive supply of fuel to satisfy society's ever growing need for automobiles, heat, etc..
- Problem Solving: Discovered the Marcellus Formation containing anywhere from 150-500 trillion ft³ of natural gas, and also created a process to extract it.
- Solution: Hydraulic Fracturing



Creation of fractures in the bedrock with the use of high pressure fluids. These fractures allow natural gas to seep out and be collected.

- Applies to everyone

Omar AlAli



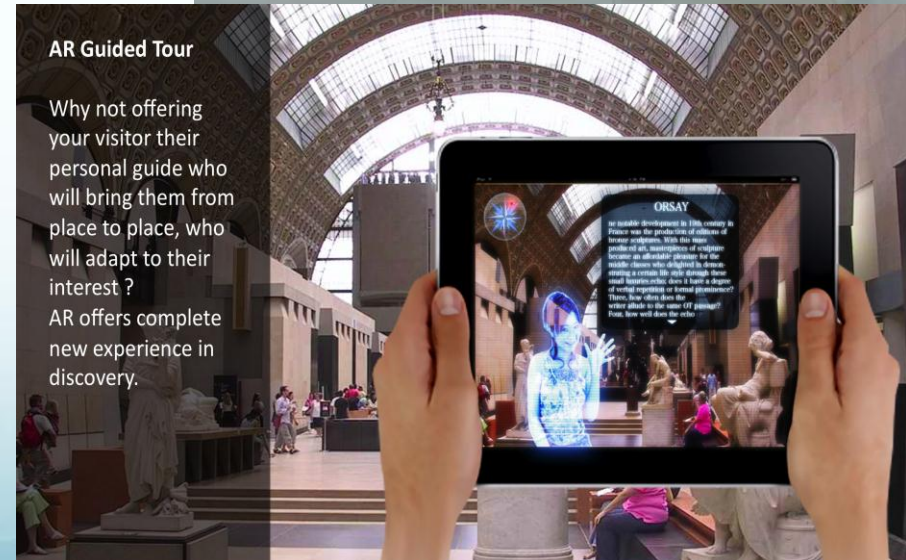
Times Square, New York

- **Class:** Freshman
- **Major:** Mechanical Engineering
- **Future:** Being from Kuwait I hope to work in one of the oil companies where I would help develop new, more efficient machinery.
- **Main Goal in life:** To be happy and successful.
- **Family:** Both my parents obtained their PhD and now teach in Kuwait. I have 2 brothers and 1 sister. My eldest brother is also getting his PhD in Nano Medicine this year.
- **Hobbies/Activities:** Most indoor team sports, Soccer, Video Games, watching soccer (Arsenal).

“I'd rather be hated for who I am, than loved for who I am not.” - Kurt Cobain

Augmented Reality

- It's a way to use technology to redefine space, and it places a virtual layer over the world
- Consider visiting a museum in the future. An AR browser will "attach" information to the art so you don't need to buy one of those audio tours
- Imagine browsing a huge catalogue of clothes whilst shopping or head to a virtual pop-up store.
- Everything will be in your possession, why travel when you can just have that scene in your living room?



Ryan M. Briglia



- **Personal**
 - Be happy with the life/job I have. Practicing Catholic.
- **Social Life**
 - Maintain relationships with my close friends and remain close with my family.
 - Plan on being married with a family
- **Material Life**
 - I want to be comfortable with my finances, but I'm not going to make money my top priority
- **Work**
 - Hopefully will be working as a mechanical engineer after college
 - Eventually would like to open up my own business
 - Considering joining the Army after college
- **Recreation**
 - I plan on joining a men's softball league or something to stay active, also I will be playing a lot of golf when I retire.
- **Politics**
 - Considering going into national politics after my career.



Society is Improving



- Society is solving more problems than we generate.
- -Medicine: Global life expectancies are at all time highs (now 78.2 years in USA)
- -Energy: Working to replace fossil fuels with clean energy, experts believe that a breakthrough in this field is coming and will lead to a sustainable future.

Loloh Alhadlaq (Lulu)



- Class: Freshman
- Major: Electrical Engineering
- Family: Parents, 3 brothers, 2 sisters.
- Hobbies: Basketball, Volleyball, Running & photography
- Work: Electrical Engineer at the Ministry of Electricity & Water in Kuwait.
- “Be the change you wish to see in the world” –Gandhi.

Water pollution

- Problems: Marine dumping, industrial waste, radioactive waste, oil pollution and underground storage leaks.
- Side effects: Contaminated drinking water, toxic health problems, killing marine animals.
- Solution: Society created organizations to clean up beaches and the ocean(Clean Water Act). Educating the world on recycling.



Sources

- **Hydraulic Fracturing**

<http://www.environmentalleader.com/2010/10/25/gas-shale-and-hydraulic-fracturing-work-for-our-nation/>

- **Augmented Reality:**

<http://mashable.com/2012/12/19/augmented-reality-city/>

- **Example of creative problem solving:**

http://www.youtube.com/watch?v=_ZyU6po_E74

- **Water Pollution:**

<http://www.nrdc.org/water/pollution/gsteps.asp>