GROUP 8

Jason Cooper, Arnie Cutrell, Tyler Farley, Evan Fisher, and J.P. Relvas
About us...

Arnie Cutrell- Big fan of the Pittsburgh Penguins and a season ticket holder. My intended major is mechanical engineering and in my free time I enjoy playing basketball, soccer, golf, and football.

Tyler Farley- Hoping to be a Civil Engineer one day, working on roads and bridges. Favorite things to do are watch and/or play sports. I play water polo here at Penn State.

Jason Cooper PhD- Grew up on a dairy farm in a very rural area and played soccer and baseball in high school. Also enjoys fishing, using and fixing machinery, and being with family.

Evan Fisher- an aspiring mechanical engineer who loves to fix things as well as take things apart. I also mountain bike.

JP Relvas- I hope to one day be a chemical engineer that...
Education

- Technology allows everyone in the world with internet access a shot at receiving an education.
- Teacher’s can educate large groups of students efficiently
  - Class discussions
  - Immediate feedback/test results
  - Video (2:15)
- More convenient for a lot of students
  - Flexible schedule
  - Specialized curriculum and personal goals
Communication

● Technology allows anyone in the world to communicate with each other no matter where they are.

● Phones/Computers/Tablets
  ○ Can make calls almost anywhere to anyone or even use the internet to chat online

● Internet
  ○ Can use the internet for social networking sites on phones and computers/tablets

● Television
  ○ People can find out what is going on anywhere in the world with news stations
Effective Food Production

- Altered seeds in crops
- Sprays and pesticides
- Hormones in animals
- Irrigation
- Reducing loose dirt
- Reducing runoff
Transportation

- Technology has revolutionized transportation
- Decreased transportation time
  - To cross the Atlantic once took months, now only hours
- Decreased transportation cost
- Decreased risk in transporting items or people
- Has effectively reduced the size of the world
Transportation

Proposed transportation solutions such as the “hyperloop” use a vacuum tube to send a capsule at speeds up to 800 mph.
Algae as a Fuel Source

• Using modern technologies, many types of algae can be converted into bio-crude oil
• The key to maximizing the efficiency of the conversion process is finding the few strains of algae that perform the best.
• This developing technology is a great example of creative problem solving, however it’s not ready to compete with petro-diesel as a fuel source.

http://www.earthtechling.com/2013/08/using-plain-old-algae-as-a-biofuel-source/
Works Cited

http://minharoupasuaroupa.blogspot.com

http://www.youtube.com/watch?v=5gU3FjxY2uQ

http://inhabitat.com/super-fast-vacuum-transport-tube