09/18 WK7 Group Meeting

Location	Hancock Library
Date	09/18
Time	4pm-5:58pm
Attendees	Derek Tan, Lily Zhang, Jessica Ying, Andre Olivier Martin

Agenda

1. General process confirm with client
2. What quality of the oil is the client expecting
3. Benchmarking Process
4. Presentation of everything that we have done to the client
5. Poster Workshop
6. Container
7. Proof of concept simulations
8. Assign the task for drawing

Notes

- General process confirm with client
    - The one done by lily is
    - The fat content for fish and insect are fairly similar
    - Jessica: The process to purify is quite to different
    - The whole system fits into three 40ft containers
- What quality of the oil is the client expecting
    - Industry or cosmetics oil
    - All the client want is as much profit possible
    - Option 1, do one to get
    - Option 2, only do industry oil and look for the extra cost to further purify it.
- Energy efficiency
    - Risk
    - Mobility

    - Depends on the cooker
- Olympia is expecting one 20ft container for the whole rendering plant.
- Give GoTerra a specification regards to the throughput that you
- Identify the best way to make a better design
- Not only the rendering plant is mobile, but also the insect farming, Basically a decentralised model. There is already a centralised model existing in Australia
- Benchmarking Process
- Presentation of everything that we have done to the client
- Poster Workshop
- Container
- Proof of concept simulations
    - Process itself
    - Stability proof
    - Heat
    - Will the system function work in both cold and warm environment
- Assign the task for drawing
    - Might be a good idea to design something ourselves instead of only using off the shelf products

  Breaker / done
  Screw Conveyor /lily
  Cooker / Andre
  Dust collector /Derek
  Condensor /Derek
  Fat press / done
  Water ring vacuum pump/ Derek
  Cooling tower/ Andre
  Power generator/ Jessica
  Water tank / Jessica
- Decide on the final deliverable
    - Refine the current process as much as we can so it is solid
    - Go down the track
    - Give a final design and Identify where the best areas are to move forward
- Meet with Ankur, ask him what are the requirements from the course
- Then meet Jiefei, ask him where he would suggest us to go

Action Items

Action item	**Owner**	**Deadline**
Screw Conveyor	Lily	21/09

Cooker Cooling tower	Andre	21/09
Dust collector Condensor Water ring vacuum pump	Derek	21/09
Power generator Water tank	Jessica	21/09