08/07 WK3 Client Meeting

This meeting is a very brief one after our Friday tutorial.

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| **Location** | ANU Engineering Building |
| **Date** | 2019/08/07 |
| **Time** | 4:00-4:55 |
| **Attendees** | Derek Tan, Lily Zhang,  Jessica Ying, Andre Olivier  Martin Amidy (client) |

## Meeting with Martin

* Martin will read through the ConOp and provide us with feedback
* The ConOps will be emailed to both Martin and Jiefei,
* Martin will check with the client again regards to the specifications of the final product
* Martin need to talk to Ankur about how much support he can provide

## General Design Process

* Concept
* CAD
* Prototype(s)
* Final

## Suggestions on our project

* We can assume that the bugs are put in fresh
* The breaker may not be necessary. A roller should be sufficient.
* Instead of the horizontal mixer, a horizontal mixer might be better. So the material does not get stuck easily.
* As for the dirt on the bugs. Olympia: we wash the bugs before using it
* Martin recon it is fair enough to assume the maggots are clean
* We might be able to split the components into two containers (more volume to make it physically possible) and combine them on site.
* Thermo barrier
* A modular approach, divide into sections, insulate processes
* Get in contact with Southen Meats (Goulburn NSW 2580) to see their actual rendering plant (they have their own vertical system, from processing to rendering)
* Keith Engineering in Sydney who is building rendering plant, may not wanna give us the specs cus IP protected.
* Andre did a costing analysis base on the prices from Alibaba
* We can work out what the conventional cost is. Then work out a conversion factor. Eg, the portable rendering plant might cost ¼ beause … (justify it)
* A: One way to prevent pressure build-up is to have sensors.
* M: find the cost of the sensors
* Safety and legal perspective, are you allowed to remotely control the plant. But it is still good so someone does not need to sit next to the plant for 5 hours
* How to transfer the product in? conveyor belt or dump it in manually
* Can connect two containers together and make sure the connection is secure
* Braker may not necessary to be integrated
* Cooking and separation container
* Idiot proof, easy to attach, safe to use. Because people make a lot of mistakes compare to machine
* Keep the focus on the 40ft container. Better if can fit 20ft,
* Martin is happy to catch up tomorrow (7th Aug)

## Send Jiefei another email

4-5 pm Thu meet Jiefei

9-10:30 am Fri morning Martin is free