09/26 WK2 Group Meeting

Location	ANU Engineering building	
Date	09/26	
Time	21:00-22:00	
Attendees	Derek Tan, Lily Zhang, Jessica Ying, Andre Olivier, John Xu	

Agenda

- 1. Collect feedback for our system from expert from Sensitar (John Xu)
- 2. Collect some data that is possible to use to simulate the whole process.

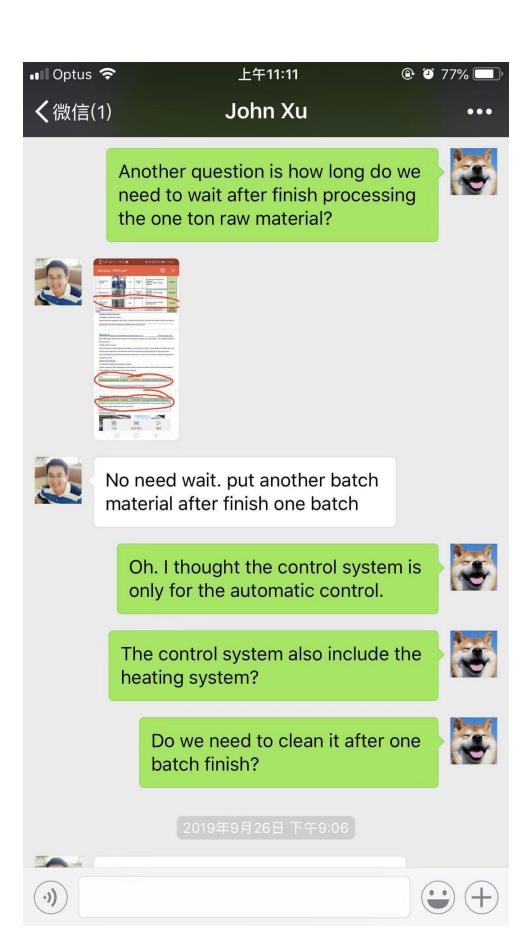
Notes

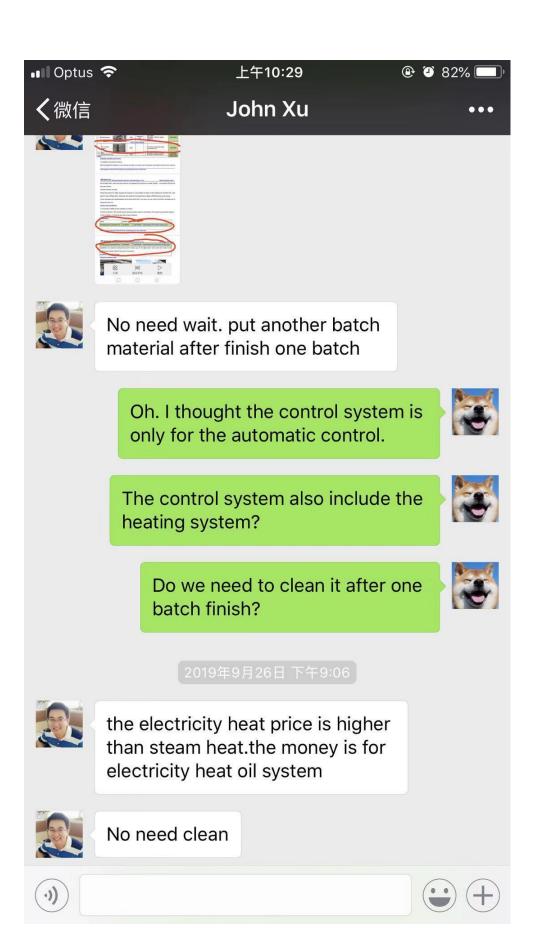
- 1. Do not need to wait after one batch finished.
- 2. There is no time required to preheat.
- 3. There is no need to clean. If the machine not been used for 7 days, clean in required.
- 4. It is possible to connect the condenser and cooker by using pipe between the containers. Thus, it is possible to place the condenser and cooker in separate container.
- 5. The capacity found in the market is same with the capacity of cooling tower provided by the manufacture. Thus, the cooling tower can be used in this system.
- Considered the mobility of the system, it is better to use the electricity heating source in the system. The size of the steam heating source is big. It requires a whole 40 feet shipping container.
- 7. The manufacture suggest if you would like to mill the meat into powder, the machine you could use is the hammer mill. The machine need to place after the fat press. As discussed with Goterra. The final product is oil and tallow. Thus, there is no need to include the hammer mill in the system.
- 8. The temperature is generally 60 degree Celsius for pork, chicken and beef.
- 9. The breaker is not required in the process since the material size out from the breaker is between 3cm to 5cm. The insect is around 5cm. Therefore, there is no need to include the breaker in the system.
- 10. The cooling tower is smaller than the manufacturer's cooling tower. The cooling tower is found on the Alibaba. The capacity is same. We assumed it will work.
- 11. The screw conveyor length is shorter than the manufacturer's screw conveyor.

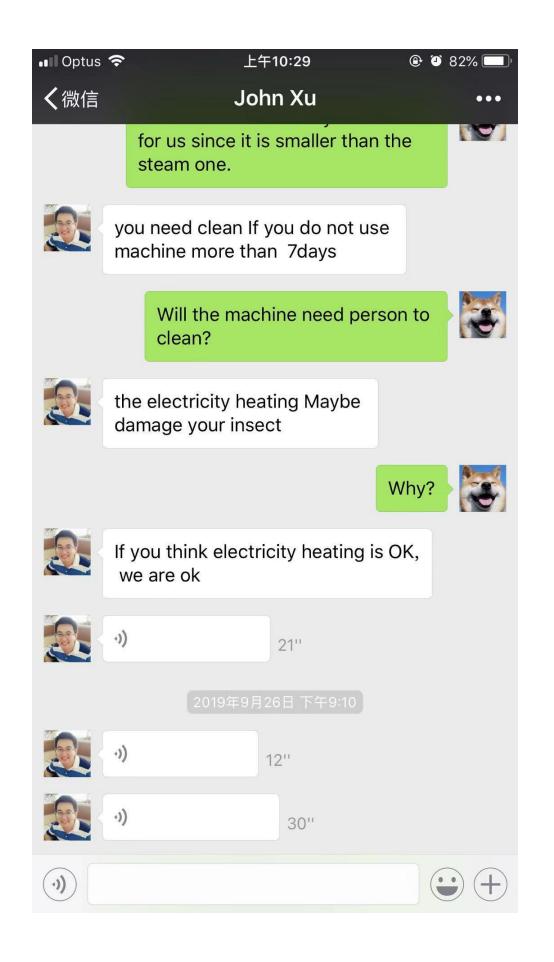
Action Items

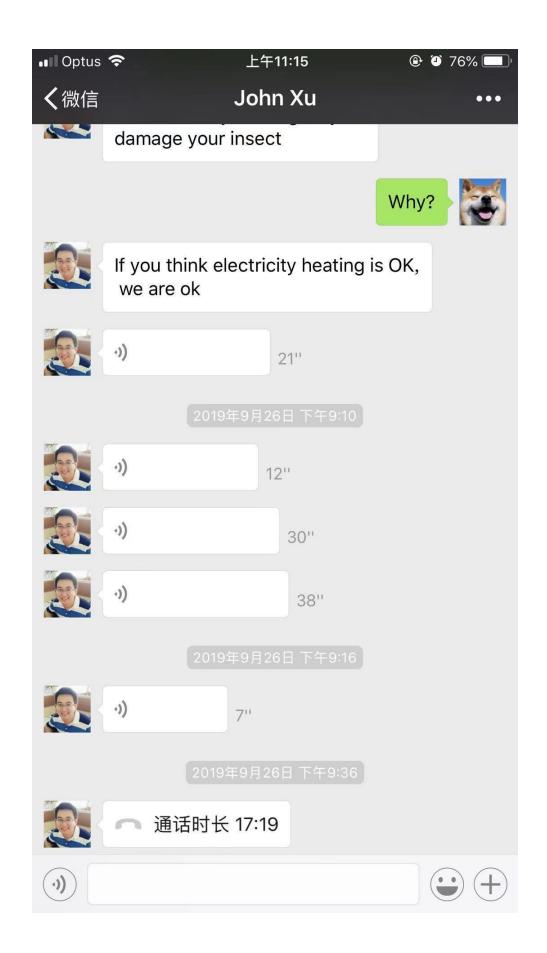
Action item	Owner	Deadline
Remove the breaker in the system	Andre	09/27

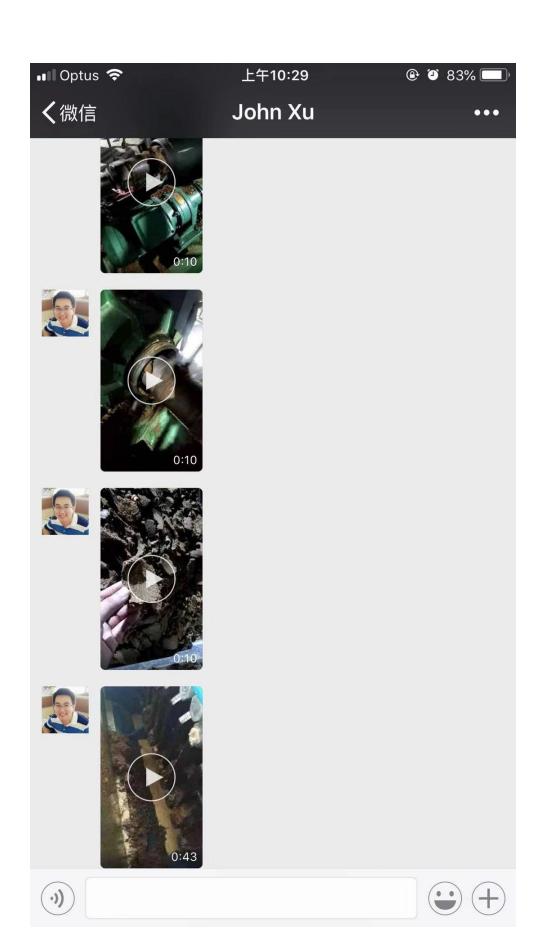
Screenshot of communication process with manufacture

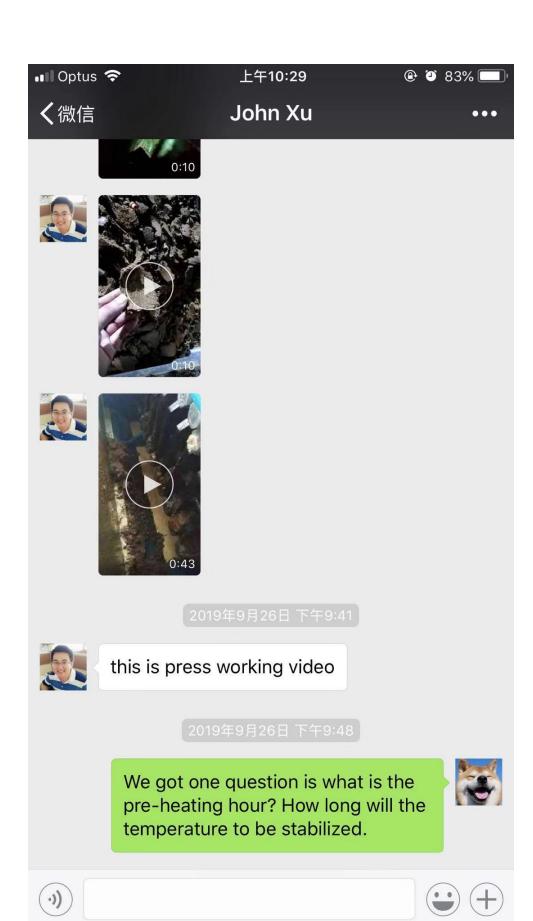


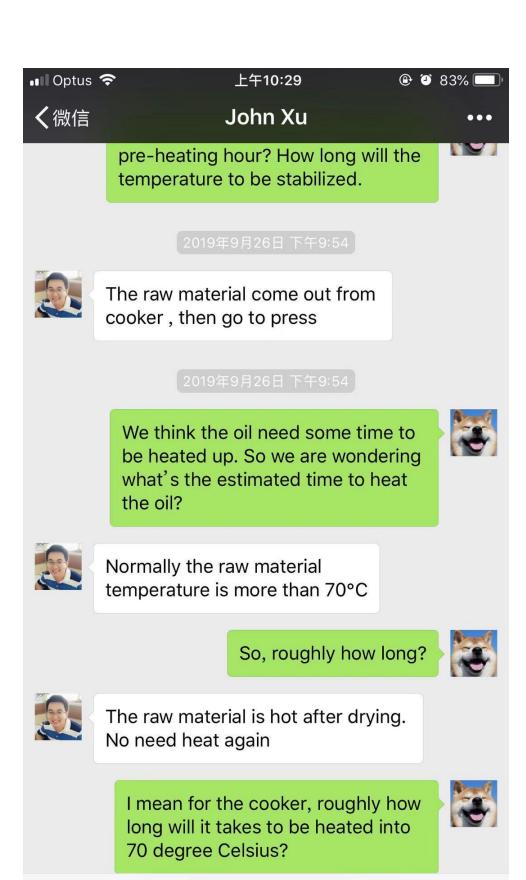








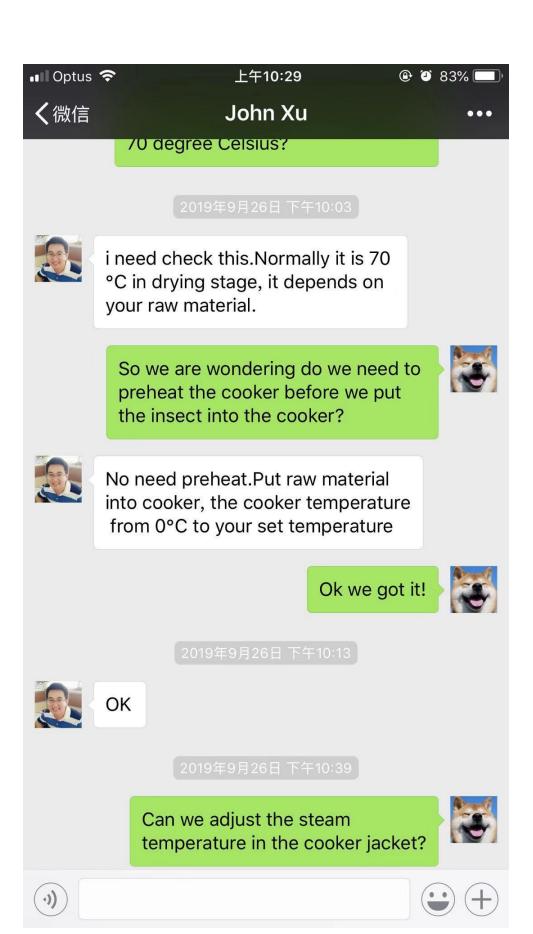


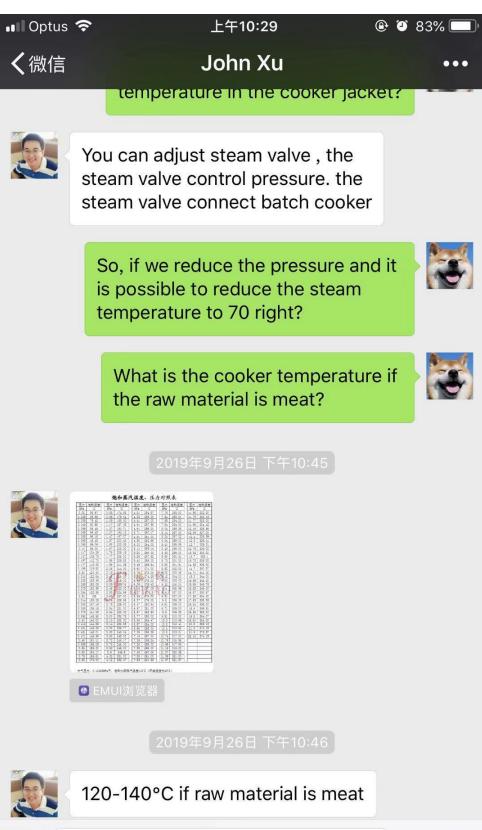






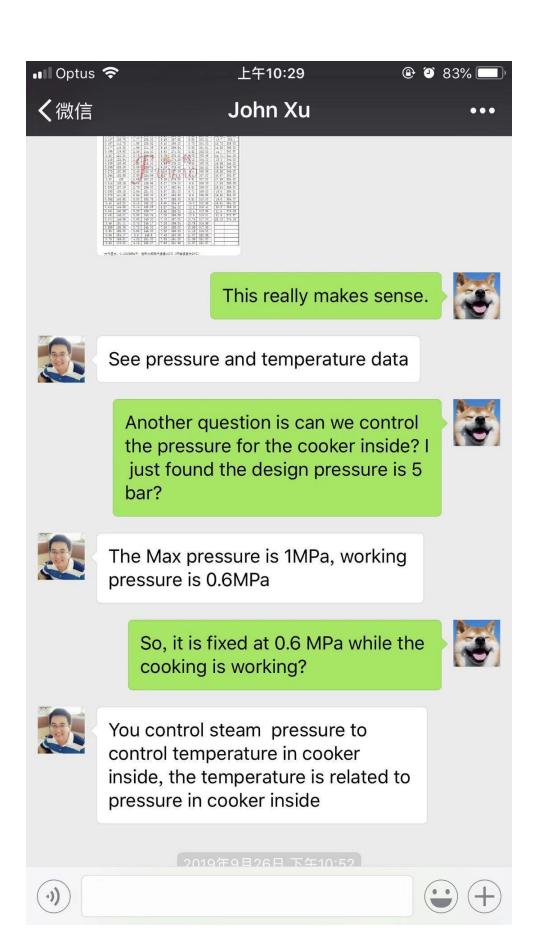














John Xu

Hi, we got one question toward to the breaker.



What is the size for the meat after the breaker.



We are thinking that the insect size is only 5cm



Thus, if the size of meat after the breaker will exceed that, we probably won't need the breaker





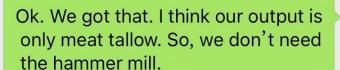
Roughly it's 3-5cm

Ok, I think our design will not need the breaker.





If you want to break the insect to finer powder, I'll suggest you to use hammer mill











probably won't need the breaker



Roughly it's 3-5cm

Ok, I think our design will not need the breaker.





If you want to break the insect to finer powder, I'll suggest you to use hammer mill

Ok. We got that. I think our output is only meat tallow. So, we don't need the hammer mill.





It's ok. I also don't think you need one.

We did some modification based on lots of feedback from our industry experts.



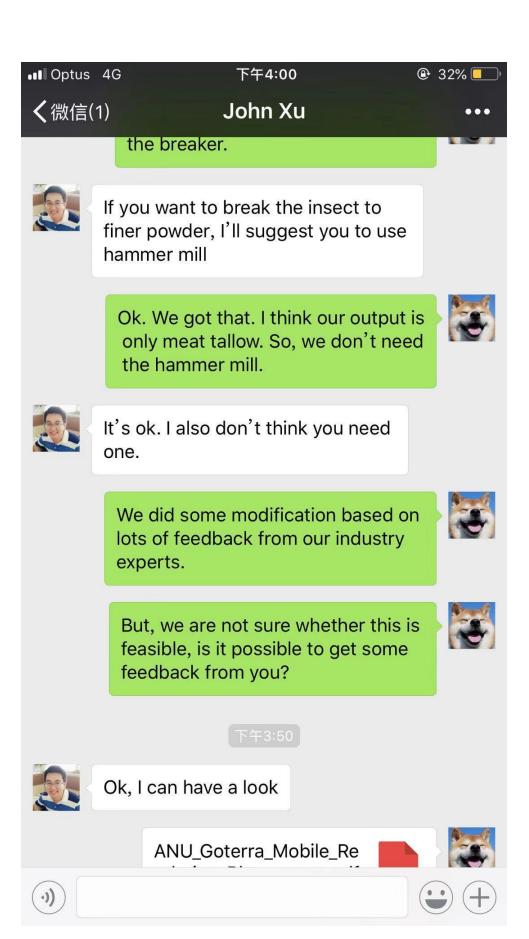
But, we are not sure whether this is feasible, is it possible to get some feedback from you?

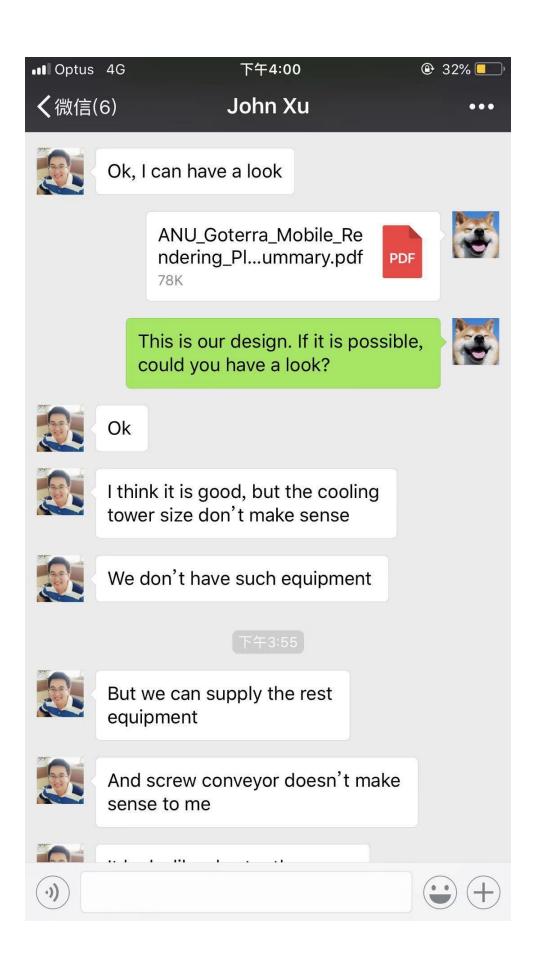














John Xu



But we can supply the rest equipment



And screw conveyor doesn't make sense to me



It looks like shorter than ours

For the cooling tower, we found one online which is smaller than yours. But it has similar capacity.



https://m.alibaba.com/product/875 962686/Small-Cooling-Tower-Industrial-Industry-Water.html?s=p &__detailProductImg=//sc01.alicdn.c om/kf/HTB1as1NbpuWBuNjSszbq6A S7FXaG/Small-Cooling-Tower-Industrial-Industry-Water-Cooling.jpg_140x140xz.jpg



Do you mind have a look?



We are assuming the capacity is the key parameters for the cooling tower.







