# **MTRL 467 MEETING MINUTES**

| **Project Name:** | Characterization of Heat Transfer for the Finger Water-Cooling Configuration |
| --- | --- |
| **Group:** | Daan Maijer and Jun Ou |
| **Meeting Date and Time:** | Jan 24th 2020, 9:30am |
| **Minutes Prepared By:** | Leonardo Walcher |

Attendees:

|  |  |  |
| --- | --- | --- |
| Name | Present | Absent |
| Daan | X |  |
| Jun | X |  |
| Huayu | X |  |
| Rohan | X |  |
| Bhakthie | X |  |
| Leonardo | X |  |
| Yaning | X |  |
| Andrew | X |  |

Agenda:

* Access to Ampel
* Outside resources
* Equipment list
* Budget estimation
* Friday 18:00 Proposal

Minutes:

* Make an appointment with Jun for safety training
* Make an appointment with Nisa to discuss about thermal expansion, water source, thermocouple model
* Next step:

1. Clarify the goal of the experiment
2. Based on the goal, generate an equipment list containing specific requirements for each tool (size/voltage/power)
3. Estimate the cost of all equipment and report to Dr. Jun (or Dr. Daan).
4. With the permission from Dr. Jun (or Dr. Daan), order the equipment (on *MacMaster-Carr/HomeDepot*).

* Schedule an extra group meeting (without sponsors) to discuss equipment list (by the end of week4)

Notes:

* It’s fine to keep the key to AMPEL, but all team members need safety training before lab.

(for Andrew: you can get your deposit back when you return the key)

We need Jun help at the beginning with the lab – appointment

* It’s hard to find some outside resources related to the system (similar but not same). Jun will send us Nisa’s proposal as a reference.
* The lead time of the order from MacMaster should be short (but depends on the equipment)
* In terms of cooling system, vapor is fine and won’t be a huge safety concern.
* A budget of $1000 is reasonable.
* Since time is tight, the goal of this project should be focused on generating a tool to measure the temperate as a function of time for various conditions. (heat transfer analysis needed)
* Run at least 2 tests
* Microstructure is not considered for this project
* Create an equipment list on Excel with the detailed information for each. (eg: heater: quantity\_4~8, voltage, geometry)