

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:	Feb 28 th 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:

- Order for the equipment
- System setup designs
- Thermocouple positions

Minutes:

Action items are in **Bold**

- **Make an appointment with Nisa for equipment setup**
- **Think about the hole positions for thermocouples while waiting for equipment**

Notes:

- It is better to have the detailed design with dimensions before buying the heaters and thermocouples.
- A design to attach the heaters to the block is introduced by using posts. This design gives the flexibility to change the heater positions.
- The exposed terminal of a heater should get covers, or there will be safety concerns.
- The design for holding the block should not disturb the temperature field at the center of the block. The recommended design is to have fixed attaches at the four corners at the base.
- The recommended thermocouple positions are that one nears the top; one is at the midway; and more thermocouples are placed at the bottom. They should be placed as close as possible to the water in the tube.

- Thermocouples can be inserted at any angles, but large angles will have some effect to the measurement. The angle of 0 and 45 degrees will be good.
- Make sure to measure the positions around the tube inner wall along the same heights.

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