Week 6: Friday, February 23, 2018

MEETING MINUTES

During this meeting, the entire capstone team met with Dr. Lee and next year's capstone team. After meeting the new team, the Alumina Base design conflicts. The base was slightly redesigned and finalized during this meeting. We also discussed the alumina base substitute and how to manufacture it. Lastly, we filled out the request forms for McMaster-Carr. The team will continue to focus on manufacturing the other pieces of the project.

Announcements:

- Sandia wants to view the Alumina Base design to see if they can manufacture it

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Individual Report

- N/A

Team discussion

- Met next year's TOF-SIMS capstone team
- Talked about issues with manufacturing Alumina Base
  - Changed thermocouple through-hole to a smaller diameter (5mm to 1.5mm)
  - Decided to continue using one through-hole for the ball bearing holes
  - Emailed Dr. Lee final CAD drawing of this part
- Decided to have one thermocouple go under the alumina base while the other goes over the alumina base
  - This allows for a smaller thermocouple through-hole and keeps the wires from touching
- Filled out request forms for items purchased from McMaster-Carr and sent the file to Dr. Lee
  - Decided to buy a ceramic slate in order to make Alumina Base substitute
- Colin and Dr. Lee researched possible springs for purchase
  - We decided to use a washer with the wedge bolts

Action Items

Dalton:

- Do a heat transfer simulation in Solidworks

Nikki:

- Research thermal tape/ coatings

Colin:

- Research manufacturing for the wedge

Kirsten:

- Research manufacturing for the clamps
- write meeting minutes