

MEETING MINUTES

Topic: Continued Manufacturing

Thursday, October 25, 2018

4:30 pm to 8:00 pm

Minutes recorded by Jacob Barker

Meeting called by Jacob Barker

Attendees: Jacob Barker, Samm Metcalfe, Ashley Shumaker

Please bring: Transfer all parts to Samm's apartment

Table 1. Record of meeting.

4:30 pm to end	Continued Manufacturing/Troubleshooting <ul style="list-style-type: none">• New blades have been printed<ul style="list-style-type: none">○ Quality MUCH better, apply these changes to next blade iterations○ Continue sanding/filing for proper fit in tube and on shaft• Thermocouple wiring<ul style="list-style-type: none">○ Attached thermocouples to miniplug○ Purchased wiring is too thick, plugs can't close all the way, causes errors<ul style="list-style-type: none">▪ Found some old J-type thermocouple wire, tested with this instead▪ Fit well, all thermocouples connects▪ Tested thermocouples with DAQ and built-in temperature measurement software'<ul style="list-style-type: none">• Thermocouples reported readings within ~1-2 °F of infrared thermometer in glass of ice water• Initial assembly<ul style="list-style-type: none">○ Inserted shaft and all blades into outer casing<ul style="list-style-type: none">▪ Froze stator sections again to shrink for press fits▪ Have issues with fitment▪ Difficult to space blades properly▪ Very difficult to remove blades once they reach ambient temperature▪ Will probably cut the tube lengthwise to allow for easier fit tomorrow• Meet again tomorrow for continued manufacturing	Samm's Apartment
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