

MEETING MINUTES

Topic: Summer Project Testing

Monday, September 10, 2018

10:00 am to 10:50 am

Minutes recorded by Jacob Barker

Meeting called by Jacob Barker

Attendees: Jacob Barker, Samm Metcalfe, Ashley Shumaker

Please bring: LabVIEW program from summer team

Table 1. Record of meeting.

10:00 to 10:25 am	Initial Design Observation/Discussion <ul style="list-style-type: none">• Casing is completely opaque—can't see any of the internal processes<ul style="list-style-type: none">◦ Small slits cut on top, don't really help• Device is not very rigid—blades won't spin if it isn't sitting on flat surface• No stand or cart• Lots of messy, exposed wiring<ul style="list-style-type: none">◦ Could be safety risk• Blades installed backwards in turbine section• Band heater works very well, but burns duct tape• Hose leaks from every fitting<ul style="list-style-type: none">◦ Fixed quickly by tightening with wrench• Ports for pressure transducers aren't threaded<ul style="list-style-type: none">◦ Leak badly• Pressure transducers don't appear to be wired to DAQ correctly	Samm's Apartment
10:25 am to 10:45 am	Testing the existing design <ul style="list-style-type: none">• Air tank compressor is VERY LOUD• Takes just under 3 minutes to fully charge to 150 psi (2:48)• Emptying the tank from empty at maximum flow rate, tank lasts about 45 seconds• If compressor is left on during experiment, the turbine will only spin for ~21 seconds	Samm's Apartment
10:50 am to end	Plan for future testing <ul style="list-style-type: none">• Obtain anemometer from Professor Willy to measure wind speed• Completely disassemble device to learn more	Samm's Apartment

