

MEETING MINUTES

Topic: Research

Tuesday, October 31, 2017

5:32 pm – 5:57 pm

Minutes recorded by: Jeremy Tilden

Meeting called by: David Trevas

Attendees: Andrew Robinson, Isaac Keene, Adam Wedell

Table 1. Record of meeting.

5:32 pm – 5:40 pm	Strain <ul style="list-style-type: none">• 1" x .5" size<ul style="list-style-type: none">○ 5lbs provides 60 microstrain• Will use strain gauge we have here• 1" x .25"<ul style="list-style-type: none">○ Provides 240 microstrain with 5 lbs of thrust	duBois, Room 11
5:40 pm – 5:42 pm	Equations <ul style="list-style-type: none">• Isobaric process will eliminate unknowns• Max 6.5lbs thrust• Found air pump to use• Look for rotational speed	duBois, Room 11
5:42 pm – 5:55 pm	Shaft Design <ul style="list-style-type: none">• .5" Diameter shaft• Machined down for press fitting bearings• Start with 7/8" shaft if using shoulders• If using set screws, .5" is fine• Roller bearings – choose right size	duBois, Room 11
5:55 pm – 5:57 pm	Further Development <ul style="list-style-type: none">• Final design due next week	duBois, Room 11

Table 2. Tasks Assigned.

Task	Person Assigned	Due Date	Date Complete
Final Report	Everyone	9/25/2017	

Next formal meeting: 11/6/2017, Room 11, duBois Center, at 5:30 pm.