

MEETING MINUTES

Topic: Client Meeting

Tuesday, February 13, 2018

10:50 am – 11:05 am

Minutes recorded by Jacob Barker

Attendees: Jacob Barker, Samm Metcalfe, Ashley Shumaker (+David Willy)

Table 1. Record of meeting.

<p>10:50 am to 10:55 am</p>	<p>Review of Engineering Requirements</p> <ul style="list-style-type: none"> • Need to measure temperature and pressure at every state • Think about educational aspect <ul style="list-style-type: none"> ○ Why is this important? 	<p>Room 324C</p>
<p>10:55 am to 11:00 am</p>	<p>Discussion of Concept Generation</p> <ul style="list-style-type: none"> • Generate Concepts for Subsystems <ul style="list-style-type: none"> ○ Turbine ○ Compressor ○ Propeller Design ○ Techniques used for each 	<p>Room 324C</p>
<p>11:00 am to end</p>	<p>Research Discussion</p> <ul style="list-style-type: none"> • Pick up Textbooks as soon as possible <ul style="list-style-type: none"> ○ Aircraft Propulsion ○ Brayton Cycle turbine design • What should we get from our research <ul style="list-style-type: none"> ○ Back of the envelope calculations necessary for initial decisions ○ Reynolds number absolutely necessary <ul style="list-style-type: none"> ▪ Our model will be stationary, on the ground. Maybe use this for design considerations • Throw together a model <ul style="list-style-type: none"> ○ Use Thermo 1 knowledge to determine where states would be on p-v/T-s diagrams <ul style="list-style-type: none"> ▪ will know compressor inlet and turbine outlet conditions ▪ Think about how you would instruct professor/TA to set up model for demonstration • Turbine/compressor stages <ul style="list-style-type: none"> ○ Why are there blades on rotors/stators • Research types of turboprop engines • Biggest problem is the combustion chamber • Get in contact with other Thermo team if possible 	<p>Room 324C</p>

