

MEETING MINUTES

Topic: Individual Analyses

Thursday, March 8, 2018

10:35 am – 11:00 am

Minutes recorded by Jacob Barker

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

Table 1. Record of meeting.

<p>10:35 am to 10:45 am</p>	<p>Team Discussion on Analytical Reports</p> <ul style="list-style-type: none"> • Possible Topics: <ul style="list-style-type: none"> ○ Blade element momentum theory ○ Material Analysis ○ Heating/T-s Diagram ○ Aerodynamics ○ Shaft design ○ Sensors ○ Manufacturing/Pricing 	<p>EGR 120</p>
<p>10:45 am to end</p>	<p>Staff Meeting</p> <ul style="list-style-type: none"> • Analytical Report Assignments <ul style="list-style-type: none"> ○ Jacob-Turbine Design ○ Samm-Compressor Design ○ Ashley-Combustion Chamber Analysis • Advice from Professor Willy <ul style="list-style-type: none"> ○ Worry about data acquisition later (next semester) <ul style="list-style-type: none"> ▪ Ambient pressure/temp measurement ▪ Measurements on either side of compressor and combustion chamber ○ Individual Analyses <ul style="list-style-type: none"> ▪ Generate symbolic equations w/ inputs and outputs ▪ Assumptions <ul style="list-style-type: none"> • Steady, 2D, etc. ▪ Draw model and label variables ▪ Do example solving equations ▪ Search library for Brayton Cycle Turbine Blade design ○ CAD <ul style="list-style-type: none"> ▪ Design parametrically using design tree ▪ Can use Excel to do this 	<p>EGR 120</p>