

MEETING MINUTES 16

Topic: Meeting 16 – Team Leads Meeting

Thursday, February 22, 2018

02:30pm - 03:30pm

Chair: Leo Segura De Niz

Attendees: David Willy, Alana B, Alex D, Anthony C, Devon H, Kory J, Tristan S

Location: Room 323 @ EGR Building

Table 1. Tentative Schedule

<p>02:30pm-02:35pm</p>	<p>Introduction</p> <ol style="list-style-type: none"> 1. Announcements <ol style="list-style-type: none"> a. Final Draft of the report will be due April 9th. <ol style="list-style-type: none"> i. Final report to be turned in April 22nd. b. Next DOE all team call March 12th. Room 102. <ol style="list-style-type: none"> i. Testing Update ii. Update on County meeting iii. Wind resource assessment iv. Software c. Funding: Big Foot Barbeque and Pay n’ Take downtown will be hosting events to help with funding. <ol style="list-style-type: none"> i. Michael Vogelsang and Alana working on a flier and asking the front desk for communication. ii. Michael working on Twitter, Alana on Facebook. iii. We need content/ pictures of manufacturing to upload. <ol style="list-style-type: none"> 1. Pictures taken tomorrow (Devon) 2. Video of actuating mechanism, 3D printed model (Devon). d. Travel: Signed forms due today! <ol style="list-style-type: none"> i. Who would be willing to pay? <ol style="list-style-type: none"> 1. Compile a list. 2. Consider all costs. Flight, ground transportation, food, etc... e. Extra Fees <ol style="list-style-type: none"> i. T-Shirts, Polo Shirts ii. 3D printed turbine models iii. Posters (April 12th)
<p>02:35pm-03:25pm</p>	<p>Discussion Topics</p> <p>Test Team A - Blades, Shaft, DC-DC Converter, Wind Tunnel Testing, Generator</p> <p>Test Team B - Hub, Rectifier, Nacelle, Brakes, Yawing, Load, Tower, Energy Storage</p> <p>Market Team - Turbine Design, Siting Challenge within 100mi, Siting Challenge at the competition, Car Charging Station, Support test teams</p> <ol style="list-style-type: none"> 1. Market Team <ol style="list-style-type: none"> a. Received dongle for WindFarmer. b. Familiarizing with the software manual. <ol style="list-style-type: none"> i. Send Willy Windfarmer Analyst with presentation c. Attempted to meet with Acker but he didn’t attend his office hours. d. Meeting with Acker soon <ol style="list-style-type: none"> i. Spider web ranch tower

	<ul style="list-style-type: none"> ii. CO bar ranch tower: North of Wapatki iii. Mesa Butte tower e. Michael will be working on scaling down the CAD files to make the 3D printed model. <p>2. Test Teams</p> <ul style="list-style-type: none"> a. Update on the design from MEs and EEs. b. ME parts ordered? <ul style="list-style-type: none"> i. ME parts sent last week were purchased. ii. Confirmation was sent today. iii. Paperwork was lost for some parts. iv. Slip ring has not been purchased. v. Paperwork will be completed again and submitted tomorrow. c. How is manufacturing going? <ul style="list-style-type: none"> i. Bottom of the root will be 3D printed by tomorrow. ii. Tolerances between the root and the hub being worked out by Devon. iii. What kind of fit for the blade root? <ul style="list-style-type: none"> 1. Current State: Half thou clearance fit. 2. More of an interference fit. d. March 12th to wind tunnel? <ul style="list-style-type: none"> i. Without slip rings. ii. Long lead times? iii. Switching some parts to 3D prints instead of aluminum. e. Turbine Testing <ul style="list-style-type: none"> i. Blade spin ii. Brake test iii. Pitching test, does it actuate properly? iv. RPM expected out of each wind speed? v. March 9th at the wind tunnel - Does it spin? vi. Once it passes initial tests, then think about the rest of the EE integration.
<p>03:25pm-03:30pm</p>	<p>Plan for next meeting</p> <ul style="list-style-type: none"> 1. Review deliverables/ tasks/ to-do's to be completed by the next meeting.