MOAS Project: Wind Energy Demonstration

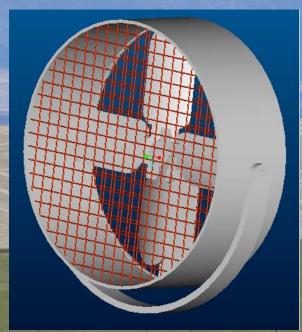
<u>Members</u>

Nicholas Bembridge Victor Fontecchio Bradley Kroger Michael Sheehan Suzanne Shepherd



Wind Generation Selection

- Qmark LDC20 20" fan
 - -3 speeds
 - 110V wall source compatible





Power Generation Selection

- No small scale wind powered generators could be found so we will construct them ourselves
- Turbines, Gearing , frame work, and windmill can all be purchased from Hobby Town USA and can be easily constructed

Power Generation





Exhibit Casing Selection

• 80/20 – Aluminum Frame Manufacturer

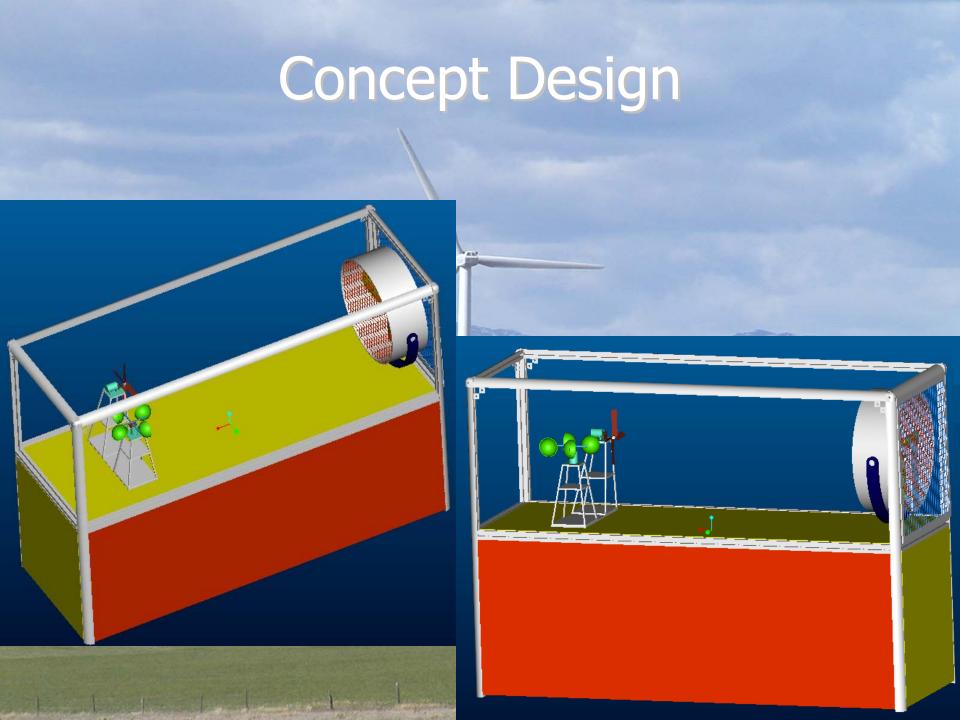
Metal Frame

Plastic Sheets

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- Leveling supports
- Wire Mesh

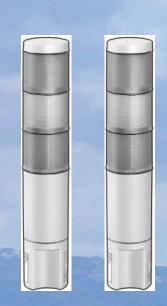




Electronics Selection

- Power meters
 - Light Towers from McMaster
- Anemometer
 - EXTech Hot Wire Anemometer
- Kill Switch
 - Macromatic Time Delay Watchdog







Budget Analysis

Wind Generation
Power Generation
Exhibit Casing
Electronics

\$450 \$550 \$1,500 \$1,650

TOTAL

\$4,203

Direction of Future Work

- Formal Written Proposal for MOAS TBD!
 - Present Proposal to the museum to approve of our design concept, budget, and schedule of completion
 - New specifications have been added to the exhibit casing and need to be addressed.
 - Complete Pro/E Design
- Start to order parts for next semester