# MOAS Project: Wind Energy Demonstration

#### Members

Nicholas BembridgeVictor FontecchioBradley KrogerMichael SheehanSuzanne Shepherd

#### Overview

- Part Ordering
- Museum
- Meeting with seniors from the EE Dept
  Testing

WANT.

- Assembly and Fabrication
- Carpenter

# Part Ordering

- During the final week of the fall semester parts were ordered using Purchase orders from Mr. Jon Cloos of the ME department.
   Hope to begin receiving parts in the next few weeks.
- Many of the parts were ordered through McMaster and they should be arriving at the college in the near future.
  We are having trouble with ordering some parts due to businesses that have not dealt with the Universities in the past and orders are pending.

#### Museum

 We plan on meeting with our sponsor at the Museum next week to go over a tentative time table as well as get a better idea as to what they want in a poster.

The museum wants a poster to go in place of the our exhibit when the alternative energy exhibit opens later this month.



# Meeting with EE Dept

- Last Tuesday the group met with two seniors from the EE dept. They have been assigned to us by Dr. Li.
- Their job it do determine the feasibility of the circuit design we have for running the light towers.
- If the design is possible they will actually build the circuits and help us connect them to the DC motors as well as the light towers.
  We are going to meet with them every Friday to exchange information and progress with their work.

### Testing



 Next week we hope to use the a wind tunnel to get a better test on power levels that we expect to get from the DC motors.

### **Assembly and Fabrication**

 We hope to receive parts in the in the near future so that we can begin assembly.

 As soon as materials come in from McMaster we hope to begin the Fabrication of the Turbine support towers.

# Assembly Contd.

Installation of the following into the following into the casing
 Fan
 Turbine Assembly
 Electrical Systems
 Pulley System

### Carpenter

 As soon as the main. frame comes in from the 8020 company we plan on meeting with the Carpenter to show him general dimensions and give him an idea as to what we want.



# **Future Work**

Begin construction of project
Final testing of components
Begin documentation and instructional material
Make project poster