



Meteorological Tower Wind Study Report

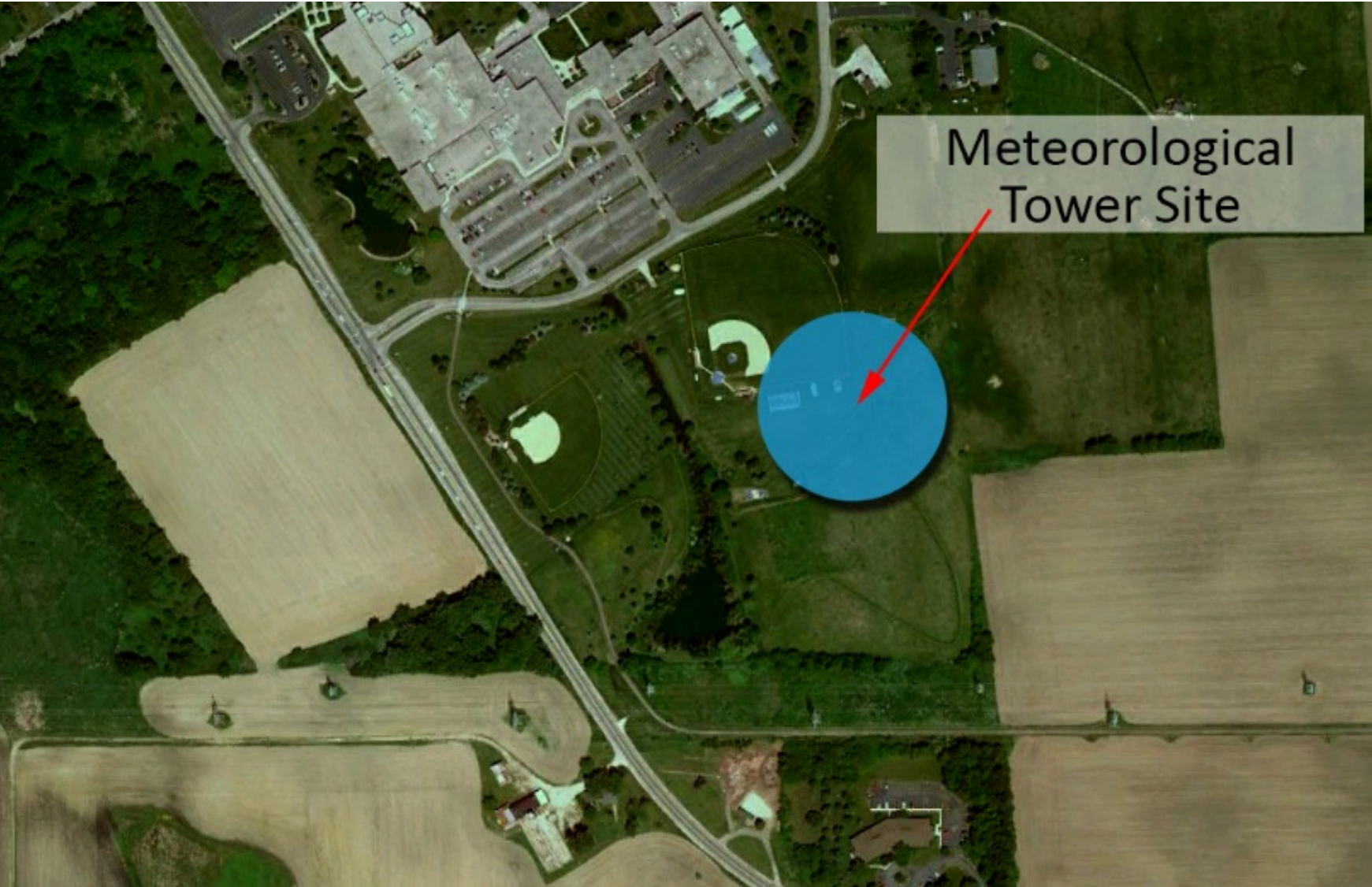
November 18, 2015

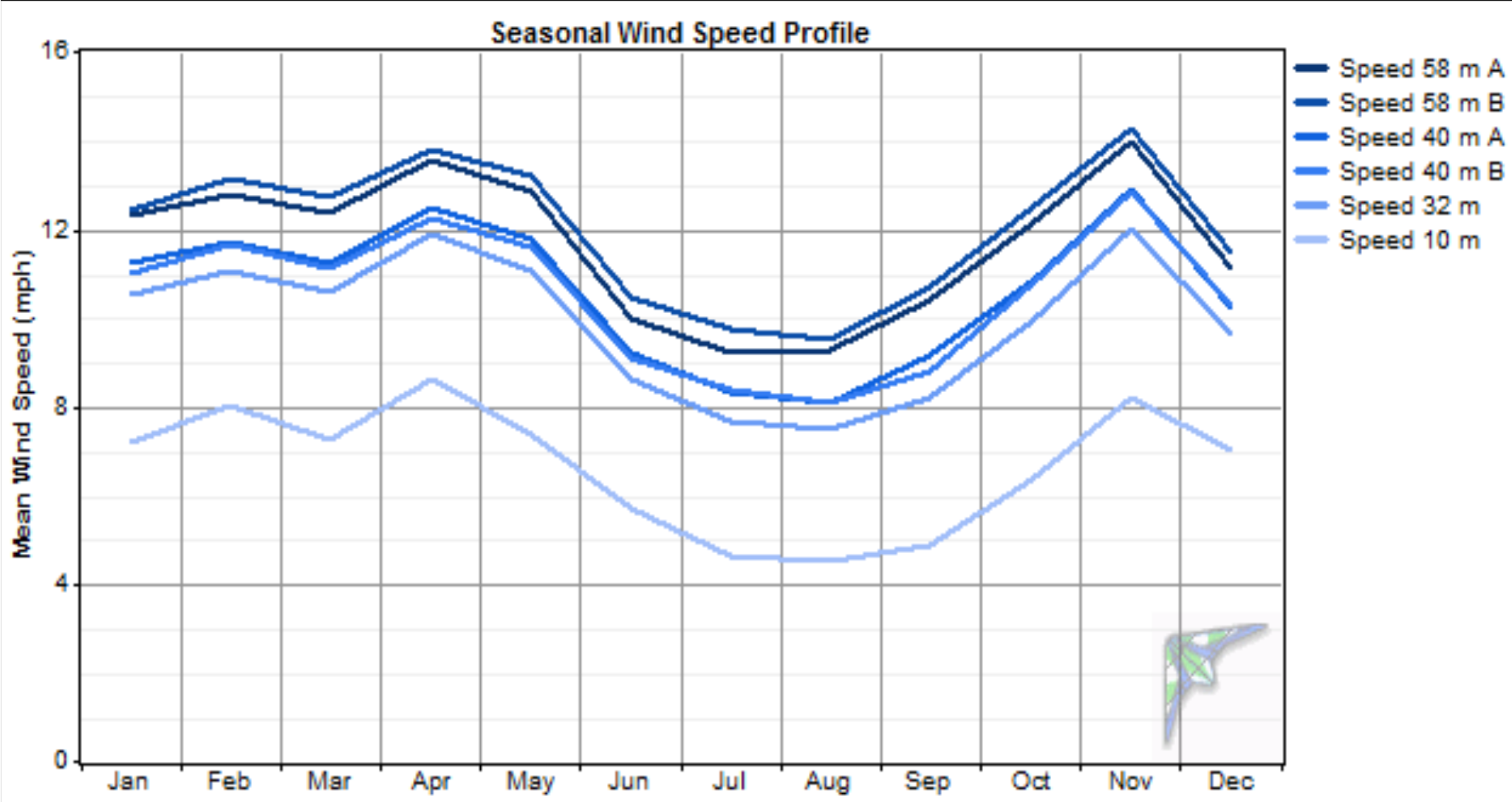
Theodore Erski

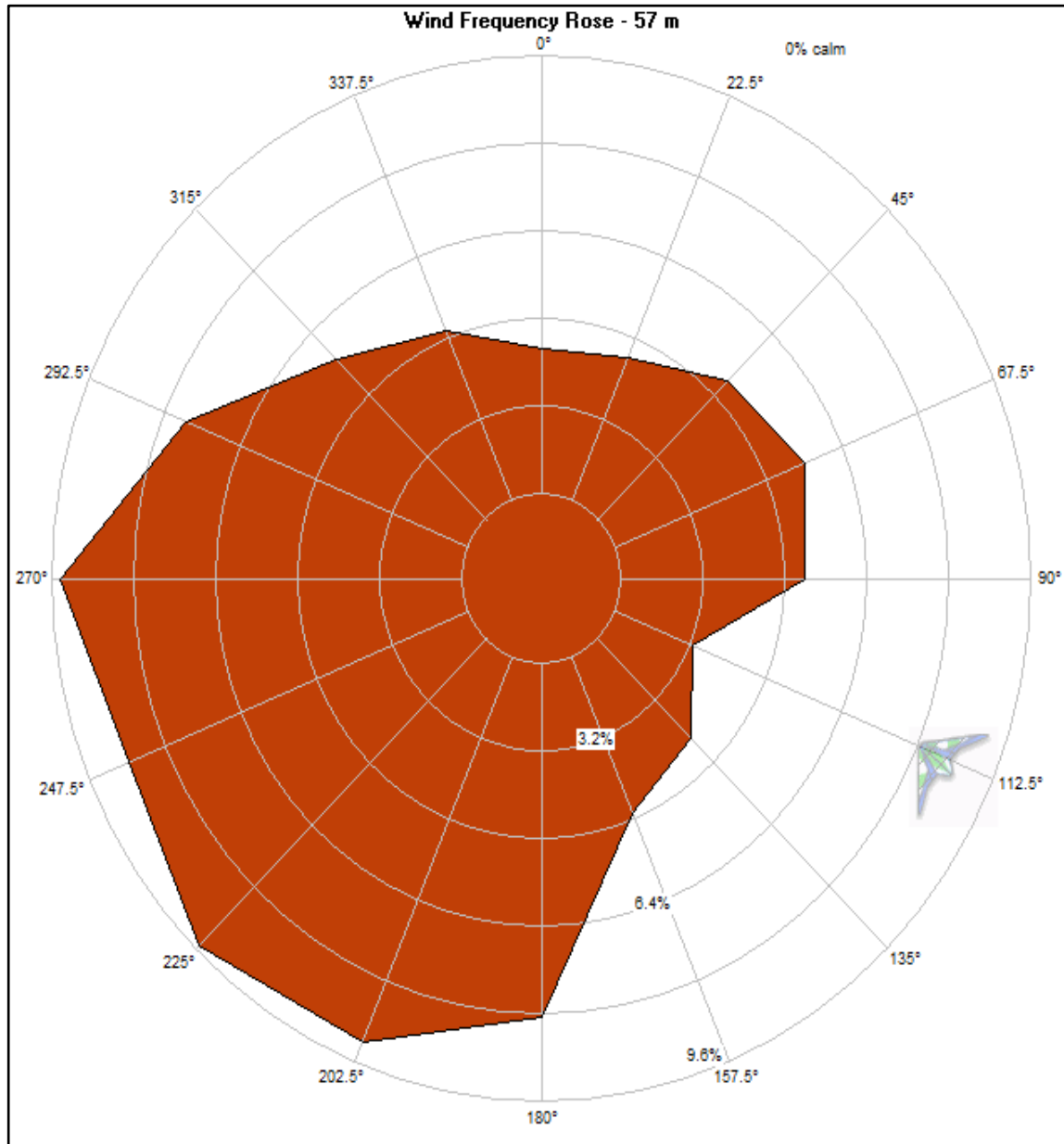
Math, Science and Health Professions

Wind at MCC

- What is our wind quality at MCC? Should we invest in a utility-scale wind turbine?
- A free wind study via the Illinois Institute for Rural Affairs & Western Illinois University.
 - August 2014 to August 2015.
- 60 meter tall tower near MCC's baseball fields.
- Collected wind, temperature and sunlight data in 10 minute intervals for an entire year.







Wind Study Results

- At 57 meters high, wind blows on average ~ 5.33 m/s.
- 5.33 m/s is classified as Wind Power Class 1, and is not suitable for utility-scale wind turbines.
- MCC should not invest in a utility-scale wind turbine.
- Data is being integrated into math and science curriculum, including classes such as Energy Resources, Meteorology, and Statistics.
- To see the data file, scroll down to #32 at:
<http://www.illinoiswind.org/resources-tools/wind-data/>