

## CWSF 2006 - Saguenay, Québec



### Charlaine Ziegler

#### Ultimate Blade Design - Wind Turbine

**Division:** Health Sciences

**Category:** Junior

**Region:** Simcoe County

**City:** Thornton, ON

**School:**

**Abstract:** This project studied the effectiveness of two blade design variables (length and overlap) on a Savonius wind turbine. The efficiency of the blade designs was quantified by measuring the generated electrical current using a voltmeter. Longer blades and a 30% overlap were found to be more efficient.

Awards	Value
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Engineering - Junior Sponsor: Youth Science Foundation Canada	\$300
Total	\$1 300