

CWSF 2009 - Winnipeg, Manitoba



Innovative, Trailing Edge Winglet: Bent. Broken. Better!

Division: International / None

Category: Junior

Region:

City: ,

School:

Abstract: An innovative, trailing edge winglet is studied to make the blade more efficient. It is movable and made out of the blade itself. Two designs were tested in 12 different wind speeds. The blades with the winglets generated over 100% more electricity than the blade without the winglet. The airflow around the winglet blades appeared to be the same as the standard blade.

Awards	Value
Renewable Energy Award - Junior Sponsor: Ontario Power Generation	\$500
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Physical & Mathematical Sciences - Junior Sponsor: Encana Corporation	\$700
Total	\$2 700