

CWSF 2010 - Peterborough, Ontario



Lauren Reid

Stagnation Point Para Foil: An Innovation

Division: Physical & Mathematical Sciences

Category: Junior

Region: Durham

City: Uxbridge, ON

School: Joseph Gould P.S.

Abstract: Wind turbine blades have many stagnation points depending on the angle of attack. A para foil was added at the stagnation point for a high angle of attack to determine if it would help the blade rotate in very slow wind speeds. The parafoil blades rotated in winds slower than the median wind speed in Canada without compromising the blade in high winds.

Biography

My name is Lauren Reid and I will probably have a career that is science related in some way. I am considering being a paediatrician or a veterinarian, maybe even a computer scientist. However, right now I am a grade 8 student at Joseph Gould in Uxbridge and I have been accepted into a performing arts high school majoring in trumpet and dance. I love being busy, especially in sports, arts and learning. I study ballet, lyrical and jazz and play many sports including tennis, golf, curling, skiing, track, basketball, volleyball and badminton. I play soccer with Markham Lightning. At school I play trumpet and clarinet in the bands, and sing in the choir. I love to read, and even write, with some of my stories even published in the local newspaper. For a few years, I have been a member of the Roxy Kids in Action, a kids group dedicated to helping the community in hospitals and nursing homes and individuals in need of assistance. It is a great feeling to help people who need it, but it is also a lot of fun!

Awards

Value

Renewable Energy Award - Junior Sponsor: Ontario Power Generation	\$500
The University of Western Ontario Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Silver Medal - Environmental Innovation - Junior Sponsor: EnviroExpo, Presented by VIA Rail Canada	\$700
Total	\$3 200