

# CWSF 2011 - Toronto, Ontario



## Nick Kurjata

### The Next Generation Wind Power

**Challenge:** Energy

**Category:** Junior

**Region:** Northern British Columbia

**City:** Charlie Lake, BC

**School:** Bert Bowes Jr Secondary

**Abstract:** I wanted to design a Vertical-axis wind turbine. My purpose was to determine if my vertical-axis turbine was better than a horizontal-axis turbine at producing energy. I tested the turbine's blades by using a fan to calculate RPM's. My results showed my turbine didn't produce more than the horizontal-axis turbine. My conclusion is my wind turbine was able to produce a minimal amount of energy.

#### Biography

I am a high energy active person with many interests. I enjoy playing sports at school and at home. These include; baseball, basketball, golf, soccer, curling, badminton, and track & field. I have been on many school teams. I enjoy outdoor activities; extreme biking, air soft paintball, hunting, fishing and riding my quad. My hobbies include designing with sketch-up on my computer, drawing on paper, and painting. Building with scrap material, playing chess, crib and other strategy games. I plan to either be a military demolition man or be a military engineer. I have trained hard to achieve my red belt black stripe in Taekwondo. I have competed and received metals for sparing and pomsae at Taekwondo tournaments.

#### Awards

#### Value

Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
<b>Total</b>	<b>\$1 300</b>