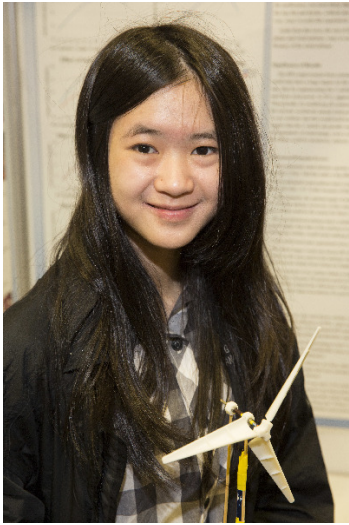


# CWSF 2014 - Windsor, Ontario



## Chloe Chen

### A Better Wind Turbine - The C Airfoil

**Challenge:** Innovation

**Category:** Junior

**Region:** Greater Vancouver

**City:** Vancouver, BC

**School:** West Point Grey Academy

**Abstract:** The purpose of my project is to improve the efficiency of current wind turbines. Many of the websites I consulted suggested that wind turbine blades today are based almost entirely on airplane wings. From this, I was able to improve the efficiency of wind turbine blades by first studying the differences between wind turbines' and airplanes' behaviours, and then modifying the blades accordingly.

#### Biography

My name is Chloe Chen. I am in grade 8 at West Point Grey Academy in Vancouver. This is my first time at CWSF, though I did participate in the Greater Vancouver Regional Science Fair last year, along with several other students from my school. I am very excited to be going to Windsor this year! Other activities I am participating in this year include the school orchestra, for which I am going to Whistler for the Con Brio Festival, and Destination Imagination, for which I am going to Tennessee for the international competition. My hobbies include watching anime and painting, and my favourite subjects at school are science and art.

#### Awards

#### Value

Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	\$300
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
<b>Total</b>	<b>\$2 300</b>