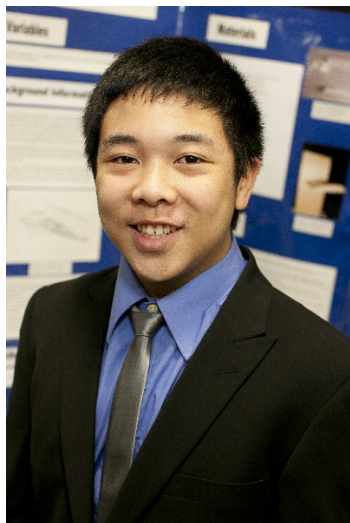


# CWSF 2011 - Toronto, Ontario



## Sean Fong

### Angle of Attack

**Challenge:** Discovery

**Category:** Junior

**Region:** Greater Vancouver

**City:** Vancouver, BC

**School:** Burnaby North Secondary

**Abstract:** I used my airfoil design to determine which angle of attack will produce the most lift at three different wind speeds. I found that increasing the angle from 30 to 90 degrees produced decreasing amounts of lift and the higher the wind speed, the lower the negative angle for when lift was created. I conclude that the critical angle of attack was 30 degrees.

### Biography

I am a grade 8 student at Burnaby North Secondary School. Ever since I was little I loved to build and design things. I like to play basketball and was on my school's grade 8 basketball team as well as the U-13 provincial basketball team. My hobbies are playing basketball, playing the trumpet, piano, guitar, drums and spending time with my friends. In the future, I see myself either as an engineer, a professional basketball player, a musician, or a pilot. I have won numerous medals for sports, trophies for music, and academic awards. For my last primary school year I won a plaque for excellence in music and another for top academic award. Recently I won a gold medal at my first Greater Vancouver Regional Science Fair. I am very excited to be attending my first Canada Wide National Science Fair and I am hoping to have a great learning experience out of this trip.

### 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>