

# CWSF 2008 - Ottawa, Ontario



## Mackenzie Carter

### The Coanda Conundrum

**Division:** Health Sciences / Automotive

**Category:** Intermediate

**Region:** Waterloo-Wellington

**City:** Maryhill, ON

**School:** St. John's-Kilmarnock School

**Abstract:** My project tested the amount of lift produced using the Coanda Effect. Using variable airspeeds from a leaf blower, I could determine the amount of lift produced by different curved foils. I found that the tighter the radius of curvature the more lift produced.

### Biography

My name is Mackenzie Carter and this is my first time at attending the Canada-Wide Science Fair. I build and fly model airplanes as a hobby. I am on the varsity soccer team at my school and I am a competitive Alpine snowboard racer. This year I trained with the Ontario Snowboard Club and represented Ontario at the Canadian Junior National Snowboard Championships. I have won best of fair at my school science fair for two years. During the summer I work as a soccer referee and kiteboard.

### Awards

### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Automotive - Intermediate Sponsor: AUTO21	\$300
Bronze Medal - Engineering - Intermediate Sponsor: Youth Science Foundation Canada	\$300
<b>Total</b>	<b>\$1 600</b>