

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
Total	\$1 600

