



## CWSF 2010 - Peterborough, Ontario



## Biography

My name is Mackenzie Carter and this is my second time 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 trainied 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 three years. At the 2008 Canada-Wide Science Fair, I was awarded bronze medals in Engineering and Automotive. During the summer I work as a soccer referee and kiteboard. Next year I will be attending university to pursuing my career as an Aerospace Engineer.

## **Mackenzie Carter**

## STOL 'n Lift

Division:	Life Sciences
Category:	Senior
Region:	Waterloo-Wellington
City:	Maryhill, ON
School:	St. John's-Kilmarnock School
Abstract:	This project tested a new wing design that provides short take-off and landing characteristics for aircraft by redirecting the high velocity air from the engines overtop of the wing. The effect of the design on both thrust and lift were tested to determine that the stall speed of any aircraft can be greatly reduced.

Awards	Value
International Summer School for Young Physicists Award	\$2 500
Sponsor: Perimeter Institute for Theoretical Physics	
Dalhousie University Faculty of Science Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
University of Ottawa Entrance Scholarship	\$20 000
Senior Gold Medallist - \$20,000 Entrance Scholarship (\$5,000 each year	
for 4 years)	
Sponsor: University of Ottawa	
The University of Western Ontario Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Gold Medal - Engineering - Senior	\$1 500
Sponsor: Youth Science Canada	
Total	\$32 000



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