

# CWSF 2011 - Toronto, Ontario



## Madison Ricard

### From The Ground Up: Part 2

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Edmonton

**City:** Tofield, AB

**School:** Old Scona School

**Abstract:** This project focuses on improving the efficiency of an airplane's airfoil through adding a second curve to the shape of the modern airfoil. Through extensive testing using load cells, it was determined that at this point of study, adding the second curve increased lift as well as increasing the lift-drag ratio of the wing.

#### Biography

Madison currently attends Old Scona Academic High School in Edmonton, Alberta. She actively participates on the international show jumping circuit and is currently working on her recreational pilot's license. She plans on attending university after high school, looking to get a degree in Aeronautical Engineering. This will be her second time attending CWSF.

#### Awards

#### Value

Challenge Award - Innovation - Intermediate Sponsor: Research In Motion	\$750
Excellence Award - Intermediate - Gold Medal Sponsor: Youth Science Canada	\$1 500
The University of Western Ontario Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: University of Western Ontario	\$4 000
<b>Total</b>	<b>\$6 250</b>