

# CWSF 2012 - Charlottetown, Prince Edward Island



## Madison Ricard

### From The Ground Up Pt III

**Challenge:** Innovation

**Category:** Senior

**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, the "sweet spot" of the double-bumped airfoil was determined for use in future testing in comparison to the modern airfoil.

### Biography

Madison currently attends Old Scona Academic High School in Edmonton, Alberta. She actively participates on the international show jumping circuit and has 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 third time attending CWSF.

### Awards

### Value

Excellence Award - Senior - Silver Medal Sponsor: Youth Science Canada	\$700
Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - \$2500 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$2 500
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$2 000
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
<b>Total</b>	<b>\$9 200</b>