



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



