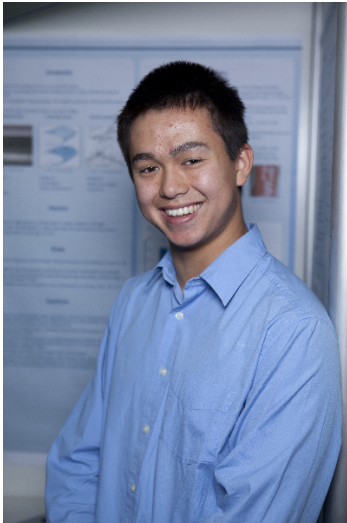


# CWSF 2013 - Lethbridge, Alberta



## Bennett Leong

### Deicing by Design

**Challenge:** Innovation

**Category:** Senior

**Region:** Calgary Youth

**City:** Calgary, AB

**School:** Webber Academy

**Abstract:** This project is an alternative to existing aircraft deicing systems. By forcing compressed air through small holes in a wing, pressure is placed on accumulated ice, causing it to fracture and to remove from the surface. It is ideal for small aircraft because it is light, simple, and inexpensive, unlike some other systems.

### Biography

I was born in Calgary, Alberta, and have lived there all my life. My interests include playing in the Calgary Youth Orchestra, cycling, and flying. I have had a passion for flying since I was 3, and I am currently working towards my pilot's license. This is where the inspiration for my project came from. I was looking for a project to do for science fair this year, and I thought of alternative ways of deicing aircraft. After a few scrapped designs, I finally came up with this one. Next year, I hope to further my research with the help of a professor, including building a model of my design and testing it in a wind tunnel. Post secondary, I hope to earn a degree in Aerospace Engineering, and eventually be involved in air crash investigation. I would like to thank my parents for supporting whatever I do, my teachers, and those in the aviation community who have given me advice and picked apart my designs.

### Awards

### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	\$100
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$2 100</b>