

CWSF 2012 - Charlottetown, Prince Edward Island



Aidan Aird

Subsonic Open-Circuit Wind Tunnel

Challenge: Innovation

Category: Junior

Region: York

City: Markham, ON

School: Unionville Montessori School

Abstract: The Subsonic Open-Circuit Wind Tunnel is a total functional, stand alone wind tunnel that was designed to be easily taken apart and transported to science venues and educational institutes. Extensive research was conducted in the planning stage for this educational wind tunnel and is capable of performing both quantitative tests and qualitative studies on objects to determine their aerodynamic properties, by producing meaningful data.

Biography

I am a grade 7 student at Unionville Montessori School taking an accelerated academic program. Each year, I have received "Honours with Distinction", which is given to students with a 90+ average. I have won numerous awards in French, Science and Public Speaking and hope to attend Harvard or MIT. I enjoy playing hockey, soccer, and swimming. Each year I try to give back to the community, and this year, with the help of my hockey teammates, we collected food for the food bank and collected toys and goods for a Women's Shelter. For this year's Science Fair, I wanted to find a topic that was interesting, challenging, solve a problem that affects mankind, and would make Mr. Linton, my science teacher who sadly passed away this year, proud. I chose to design and build a Subsonic Open-Circuit Wind Tunnel and hope to develop an aircraft wingtip that will save fuel, which will help make the planet a greener place. I have thoroughly enjoyed working on this project and hope to start an after school program that will utilize the wind tunnel. Science Fair has been a fantastic experience and would highly recommend it to other students interested in science.

Awards

Value

Carlson Wagonlit Award - Junior	\$500
Sponsor: Carlson Wagonlit Travel	
Total	\$500