

CWSF 2017 - Regina, Saskatchewan



Finley Nakatsu

What a Drag - A study of the factors affecting a boat's drag through calm water

Challenge: Discovery

Category: Junior

Region: Halifax

City: Hammonds Plains, NS

School: Madeline Symonds Middle School

Abstract: This project's purpose was to examine two variables: A boat's bow-angle and length, to determine their effect on a boat's drag. The hypothesis was that sharper-bows and shorter boats will have less drag. The variables were tested using wooden boats; drag was measured with a scale and weight system. The conclusion was that generally less drag was measured with sharper bow-angles and shorter boat lengths.

Biography

My name is Finley Nakatsu. I'm from Hammonds Plains, Nova Scotia. My project is called "What a Drag" and it's a study of the effect of bow angle and length on a sailboat's drag. I got the idea for this project from an argument between me and my brother. I sail a C420 with an angled bow and he sails an Optimist with a flat bow. I love sailing and have sailed for 3 years. Last year, I raced at the C420 National Championships. Some of my other hobbies are: TaeKwonDo in which I earned my Black Belt last February, and playing the guitar. My advice to anyone trying to go to the Canada Wide Science Fair, or achieve their goals in anything is to leave nothing on the table; never say, "good enough". If you try your hardest it won't matter if you make it or not, the experience will be your greatest reward. "The cure for anything is saltwater: sweat, tears or the sea." (Karen Blixen)

Awards

Value

Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 000