



## CWSF 2018 - Ottawa, Ontario



## **Finley Nakatsu**

## Dragging on ? The Effect of Length, Surface Coating and Stern Angle on Drag

Challenge: Energy Category: Junior Region: Halifax

City: Hammonds Plains, NS

**School:** Madeline Symonds Middle School

**Abstract:** The purpose of this project was to examine the relationship between length

of boat, stern angle, hull coating and drag To test these hypotheses, I used a flow chamber, wooden boats and a scale and weight system to measure drag. I also used dye to see disturbances in the streaming of the hull,

resulting in higher drag due to vortex shedding.

## Biography

My name is Finley Nakatsu. I'm in grade eight, and I go to Madeline Symonds Middle School in Hammonds Plains, Nova Scotia. My project is called "Dragging On". It builds on my project from last year, called "What a Drag" which arose from an argument between me and my brother. "Dragging On" examines the effect of length, stern angle, and surface coating on the drag of the hull of a boat. To continue my project next year, I'd like to build a full scale model of a hydrofoil shaped boat (come see my project) modified using the results of this project and last years. I enjoy sailing, playing guitar (rock and Metal) and doing tae-kwon-do. My advice to people making a project is this: Good projects are made when you anticipate the outcome, great projects are made when you can't. Finally a quote from Augustus Hare: Thought is the wind, knowledge is the sail, and mankind is the vessel.

Awards	Value
Excellence Award - Junior - Bronze Medal	
Sponsor: Youth Science Canada	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$1 000



