

ESPC 2013 - Lethbridge (Alberta)



Malcolm Mann

Tubercles on Sailboat Rudders: A Whale of an Idea?

Défi: Innovation

Catégorie: Junior

Région: South Shore

Ville: Lunenburg, NS

École: Bluenose Academy

Sommaire: Tubercles are the small bumps on the leading edge of the fins of humpback whales which improve their mobility. This project investigates whether adding tubercles to sailboat foils can improve the lift and increase the stall angle of the foil. After construction of suitable foils with and without tubercles, testing was performed in both a home-made flow tank and in a river.

Biographie

My name is Malcolm Mann. I am a grade 8 student at Bluenose Academy in Lunenburg, Nova Scotia. At school I am very involved in sports such as hockey, volleyball and badminton. I am also a member of both the school Junior Concert Band and Jazz Band. I play on a Bantam AA hockey team with players representing the South Shore of Nova Scotia. In the summer I enjoy dinghy sailing at the local yacht club and on my family's boat. In future, I hope to attend university although I do not know in what field of study. I got inspiration for my project from thinking of experiments that involved things I love doing. For other students thinking of doing a project, I would say do a project on something that really intrigues you.

Prix

Valeur

Prix Carlson Wagonlit Commanditaire: Carlson Wagonlit Travel	500,00 \$
Prix d'excellence - Junior - Médaille d'argent Commanditaire: Sciences jeunesse Canada	300,00 \$
Bourse d'études de Western University Médaille d'argent - Bourse d'admission de 2 000 \$ Commanditaire: Université Western	2 000,00 \$
Total	2 800,00 \$