

CWSF 2014 - Windsor, Ontario



Duncan Silversides

Deciding the Point: A New Curling Measuring Stick Revealed

Challenge: Innovation

Category: Intermediate

Region: Vancouver Island

City: Victoria, BC

School:

Abstract: In the sport of curling, when there are two rocks that appear to be the same distance from the center, they are measured to see which rock is closer. Curlers use a mechanical measuring stick that is over 2 meters long. I have designed, built, programmed and tested an Electronic Measuring Stick that is smaller, faster and less expensive than the current measuring stick.

Biography

Duncan lives in Victoria BC, on the south end of Vancouver island. He is part of a competitive robotics team that has participated in FIRST World Championships. He used CAD software to design a syncro drive system for his team's robot. Duncan enjoys biking, walking through the Royal Roads forest, and Curling. He is currently in grade 10 and in his second year of the Curling Academy program at Esquimalt HS. For a future career, Duncan is considering working as an engineer. He started thinking about his project after the Mens' World Curling Championship was held in Victoria in 2013. He had a opportunity to use competition curling rocks which use a sensor to indicate hog line violations. Duncan wanted to find other ways to introduce technology into his favourite sport. Duncan is very excited to be participating in his first Canada Wide Science Fair and he is looking forward to getting to see Windsor for the first time.

Awards

Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100