

# CWSF 2010 - Peterborough, Ontario



## Noah Bayless, Sam Harrison

### A Helping Hand

**Division:** Life Sciences

**Category:** Junior

**Region:** Greater Vancouver

**City:** Vancouver, BC

**School:** Point Grey Secondary

**Abstract:** Our purpose was to create a device that would help visually impaired people navigate safely, through the use of an ultrasonic range finder. The ultrasound range finder interfaces with a computer and sends signals to a vibration motor that the user wears on a glove. The device allows users to detect obstacles without physically touching them.

### Biographies

Noah - Noah Bayless was released back into his natural learning habitat at the age of 7, and spent five years at home with an online school called EBUS. Noah got up promptly at ten each "morning" and thought about his daily plans over a cup of tea. Usually, these involved sine waves and their derivatives, Archimedes, Japanese, or creating computer games, often accompanied by his cat, Smokey. He took a free online MIT course, "Godel, Escher, Bach," which covered a variety of his favourite subjects, including math and computing. Finally, a tangible school welcomed Noah for Grade 8 this year, and he has learned how to use a pencil. At Point Gre...

Sam - My name is Sam Harrison. I live in Vancouver, BC, where I am a grade eight student at Point Grey Mini School. Science is one of my favourite classes. I think that science fairs are a wonderful idea and a good way to get people into science. I enjoy playing the guitar, sports, and biking.

### Awards

### Value

The University of Western Ontario Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Silver Medal - Engineering - Junior Sponsor: Youth Science Canada	\$700
<b>Total</b>	<b>\$2 700</b>