

# CWSF 2014 - Windsor, Ontario



## Dana Torbina

### Ultrasonic Vision

**Challenge:** Innovation

**Category:** Junior

**Region:** Bay Area

**City:** Toronto, ON

**School:** Appleby College

**Abstract:** This project is to help visually impaired people to navigate. An ultrasound cane was made using electronic components that make a sound when an obstacle is detected. A number of blindfolded people had to pass an obstacle course using a regular and the ultrasound canes. According to the time and amount of fault hits recorded the ultrasound cane was found more accurate, and safer.

### Biography

I go to Appleby College in Oakville. I enjoy hunting, skiing, volleyball, and drawing. The inspiration for my project was my mom's friend who is vision impaired. He uses a dog guide as a source of his navigation. I thought that even though dogs are highly trained, dogs are still dogs, and something can go wrong any minute. So I was inspired to make a device for the vision impaired that would be easier and safer to use. I hope to work more on the model I've made, and improve it. To those thinking about making a project, think of something you're passionate about, and make it come to life.

### Awards

### Value

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