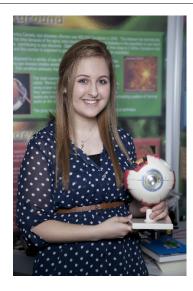




## CWSF 2013 - Lethbridge, Alberta



## **Melissa Chopcian**

## Improved Methods for Robotic Eye Surgery

Challenge: Innovation Category: Senior

**Region:** Lambton County **City:** Sarnia, ON

School: Northern C.I. & V.S.

Abstract: The purpose of this innovation is to develop an improved method for

robotically performing specialty eye surgeries on the retina. Surgical systems for operating on the eye's retina can be improved by using a computer imaging system controlled by a raster scanning laser. This kind of

innovation would have human and commercial benefit.

## **Biography**

My name is Melissa Chopcian. I am a grade 11 student at Northern Collegiate in Sarnia, Ontario. My science fair project is an innovation that can be used to improve laser eye surgery. I have many interests. I like to volunteer at our local hospital and nursing home. I also like to play the piano and alto saxophone. I really enjoy playing sports such as hockey, skiing, sailing, swimming, volleyball, and tennis. I have an older brother named Christopher. He has also competed in past Canada Wide Science Fairs. My favorite subjects in school are math and chemistry. I really enjoy solving equations and learning about neat things. When I grow up, I want to become a pediatrician. I truly like helping others, especially sick children.

Awards	Value
CSSE Engineering Innovation Award - Senior	\$1 000
Sponsor: Canadian Society for Senior Engineers	
Excellence Award - Senior - Bronze Medal	\$100
Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$3 100



