



CWSF 2011 - Toronto, Ontario



Christopher Chopcian

Computer Controlled Heart Assist Pump

Challenge: Innovation Category: Senior

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

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

Abstract: The purpose of this innovation is to improve the quality of life for people

waiting for a heart transplant. In this project, a heart assist pump was designed, manufactured and tested. The device is small enough to allow it to be installed in a patient's heart using minimally invasive surgery. Several technologies (hardware / software) were used. This device would have

human and commercial benefit.

Biography

My name is Christopher Chopcian. I am a grade 11 student at Northern Collegiate in Sarnia, Ontario. My science fair project is an innovation that helps people with weak hearts. I have quite a few interests. For instance, I like to volunteer with Big Brothers, and organization that helps kids without dads. I've helped them run robotics camps and rocket competitions. I also volunteer at our hospital, helping in the dentistry department, and I volunteer at the nursing home. I really like sports. In the winter, I play hockey (my favourite thing to do), ski and snowboard. In the summer I like to sail and swim. I have a younger sister, Melissa. She is also competing in the 2011 CWSF this year.

Awards	Value
The Manning Innovation Achievement Award	\$500
Sponsor: Ernest C. Manning Awards Foundation	
The Manning Innovation Achievement Award	\$4 000
and \$4000 Manning Young Canadian Innovation Award	
Sponsor: Ernest C. Manning Awards Foundation	
Excellence Award - Senior - Gold Medal	\$1 500
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Manitoba Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: University of Manitoba	
The University of Western Ontario Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: University of Western Ontario	
University of Ottawa Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4,000 Entrance Scholarship	
Sponsor: University of Ottawa	
Total	\$28 000



