

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