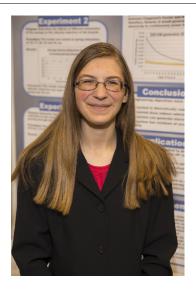




CWSF 2016 - Montreal, Quebec



Biography

My name is Caroline Mahut and I am 17 years old. I was born February 1st 1999 in Burlington, Ontario. I am a Grade 11 student in the French Immersion Program at M.M. Robinson High School. As I have a polish heritage, I am fluent in the Polish language as well as French and English. My favourite hobbies include reading, playing piano and cross country running. I am also a member of the Polish girl guides and attend Polish language classes. I am officially a lifeguard as I have recently finished the NLS life-guarding course. My project inspiration was based off of a question that I asked myself in my physics class: Why do we waste so much energy when braking a vehicle and how can we reuse this energy that is dissipated as heat into the environment? This inspired me to find a solution to this question, which was also the purpose of my project. If you are interested in participating in a science fair, it is best to start with an exciting topic that really interests you and keep exploring new ideas that improve it.

Caroline Mahut

Slowing Down To Power Your Town

turbine driven electricity generator.

Challenge: Innovation		
Category:	Senior	
Region:	Bay Area	
City:	Burlington, ON	
School:	M.M. Robinson H.S.	
Abstract:	The purpose of this project is to design a road based system that is able to collect the energy that a vehicle normally dissipates as heat while braking and transform it into usable electricity. The system designed was a series of road mounted resistive pedals that reduced vehicle velocity on a downhill sloping road while simultaneously energizing hydraulics that power a	

Awards	Value
Challenge Award - Innovation - Senior	
Sponsor: Youth Science Canada	
Excellence Award - Senior - Gold Medal	\$250
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	
University of Ottawa Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4,000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Total	\$22 250



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