



CWSF 2017 - Regina, Saskatchewan



Biography

My name is Caroline Mahut and I am 18 years old. I was born February 1st 1999 in Burlington, Ontario. I am a Grade 12 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 research in which I was attempting to find an alternative renewable energy source for developing countries. I discovered that 8 out of 10 of the countries with the highest population without access to electricity bordered large bodies of water. This led to the purpose of my project which was to develop a system that is able to harness the energy of a wave and convert it into electricity for developing countries while maintaining affordability and design simplicity. I would advise other students that are thinking about a science project to stay curious and keep asking questions.

Caroline Mahut

Catch the Wave: Harnessing Electricity from Aqueous Sinusoidal Oscillations

Challenge:	Innovation
Category:	Senior
Region:	Bay Area
City:	Burlington, ON
School:	M.M. Robinson H.S.
Abstract:	The purpose of this project is to develop a novel system to harness large water body wave energy and convert it into electricity for use in coastal areas of developing countries not serviced by an electrical grid. The wave capture system was designed, built, tested and validated. It was shown to be economically viable, simple in design, constructed using readily available materials and low maintenance.

Awards	Value
Renewable Energy Award - Senior	\$1 000
Sponsor: Ontario Power Generation	
Excellence Award - Senior - Silver Medal	
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$2 500
Senior Silver Medallist - \$2500 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: Western University	
Total	\$9 500



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