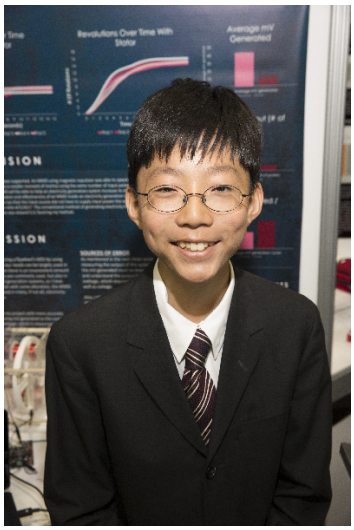
CWSF 2019 - Fredericton, New Brunswick



Paul Lee

Conserving Momentum with MMDs

Challenge: Energy
Category: Junior
Region: Bay Area
City: Hamilton, ON
School: Dalewood Senior E.S.
Abstract: In my project, I aimed to enhance a flywheel energy storage system, which is used in electricity generation systems where there are unpredictable input sources (Wind, Solar), by using magnetic repulsion. I also aimed to utilize this enhanced flywheel (MMD or Magnetic Motive Drive) inside a fully equipped electricity generation system, and see if it could improve the efficiency of the system.

Biography

My name is Paul Kyum Lee, and I am a grade 8 student attending Dalewood Middle School in Hamilton, ON. Thanks yo my parents jobs, I have lived in many different countries - Russia, Azerbaijan, Korea, and most recently, Canada. I have been working on my project for a long time, and I am excited to represent all the hard work at CWSF. My project focuses on improving the efficiency and reliability of a flywheel energy storage system by using magnetic repulsion. I am a part of McMaster University's High Performance Basketball camp, and in my spare time I like to read and play basketball.

Awards	Value
Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - $1000 Entrance Scholarship Sponsor: Western University	$1 000
Total	$1 000