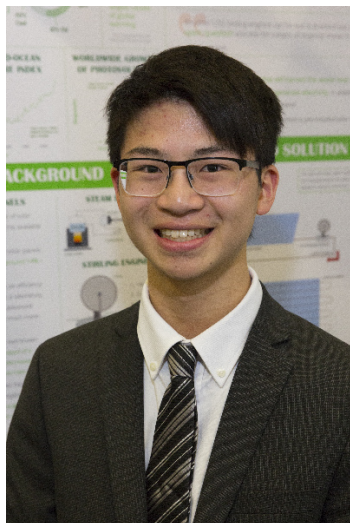


CWSF 2018 - Ottawa, Ontario



Alex Chan

Joint Solar Panel Cooling and Waste Heat Harvesting with a Stirling Engine

Challenge: Energy

Category: Senior

Region: Frontenac, Lennox & Addington

City: Kingston, ON

School: Kingston Collegiate Vocational Institute - KCVI

Abstract: Today, solar panels are one of the cheapest forms of electrical generation, and thus have become one of the most popular forms of energy generation. However, there are problems associated with the solar generation of electricity. This project sought to design a new method of energy generation, combining both solar panels and Stirling engines to solve many of those problems.

Biography

Hello, my name is Alex Chan and I'm a Grade 11 student in the full IB Programme at Kingston C.V.I. I have competed in science fairs for several years, and I am excited to be back again for my second CWSF! I was given the opportunity to attend the SHAD program last summer, and that's really where I first got the idea for my project. I attended the program at the University of Calgary campus and met many great people. Outside of school I also participate in DECA, which is like science fair but for business, and I play on my school's soccer and badminton teams. In the future, I look forward to taking a year off before attending university - hopefully in the field of science.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
Carleton University Entrance Award Senior Bronze Medallist - \$1,000 Entrance Award Sponsor: Carleton University	\$1 000
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$3 000