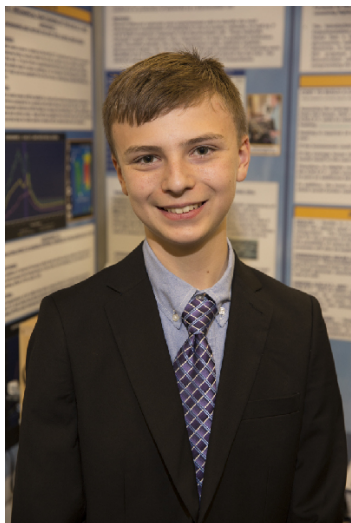


CWSF 2016 - Montreal, Quebec



The Graphene Enhanced S.W.I.F.T. Unit

Challenge: Resources

Category: Junior

Region:

City: ,

School:

Abstract: The Solar Window Insulating Furnace Technology (S.W.I.F.T.) Unit was developed to insulate windows against heat loss, generate electricity and heat rooms. The S.W.I.F.T. Unit is an inexpensive method of heating rooms lacking equator facing windows and therefore not heated through passive heating. Mechanical and electrical enhancements, such as the use of thermovoltaic cells and graphene-coated sheets, have been used to improve the S.W.I.F.T. Unit.

Awards	Value
Canadian Artificial Intelligence Association Award - Junior Sponsor: Canadian Artificial Intelligence Association	\$500
Challenge Award - Resources - Junior Sponsor: Youth Science Canada	
Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	\$250
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
Total	\$4 750