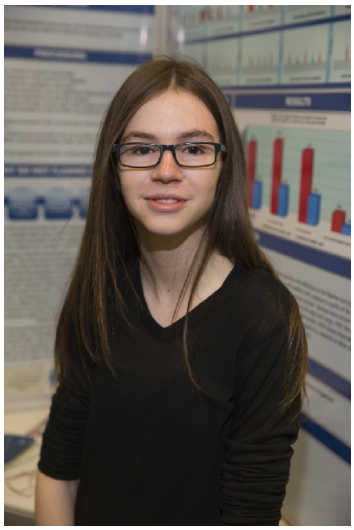
CWSF 2016 - Montreal, Quebec



Mackenzie Guy

Chillin' with Hot Flashes

Challenge: Health
Category: Junior
Region: Wood Buffalo
City: Fort McMurray, AB
School: École McTavish Junior High

Abstract: Through experimentation, determining the most effective method of treating a hot flash during a person's sleep, four cooling methods were tested. Results showed the most effective means in treating a hot flash was to provide a large cooling surface that would eliminate as much sleep disturbance as possible. A liquid cooled blanket provided the greatest cooling surface with the least amount of sleep lost.

Biography

My name is Mackenzie Guy and I am 13 years old. I am a grade eight student at Ecole McTavish Junior High School in Fort McMurray, Alberta and this is my first time attending the CWSF. At school my favourite subjects are Science and Math, as well as option classes, Woodworking and Robotics. My special interests are dirt biking, skiing, and floor hockey. Outside of education and sports, I play the drums and enjoy travelling and camping. I have been participating in the Wood Buffalo Regional Science Fair for the past five years and the inspiration for my project this year came from watching my test subject struggle with lack of sleep due to hot flashes. My plans for further investigations for my project include: making my thermoelectric heat pump with attached blanket more portable; expanding my research in other directions including children with fevers, and for cancer patients suffering with the possible side effects of chemotherapy. I really enjoy participating in the science fairs and would encourage anyone who wants to seek new experiences, create big ideas, and just have fun to give it a try. Hopefully my enthusiasm in science will help me pursue a career in Forestry.

Awards	Value
Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - $2000 Entrance Scholarship Sponsor: Western University	$2 000
Total	$2 000