

CWSF 2014 - Windsor, Ontario



Kristi Hayko, Kaylee Hayko

Searching for Joules

Challenge: Discovery

Category: Senior

Region: Regina

City: Regina, SK

School: Winston Knoll Collegiate

Abstract: Our project, "Searching for Joules", is an innovative way to extract heat energy from waste water, which can be used to heat the cool supply water entering the house. For this experiment, we created a simple double pipe, counter flow heat exchanger. This project has the potential to reduce the use of fossil fuels, conserve energy, save the environment, and save money.

Biographies

Kristi - My name is Kristi Hayko. I was born on June 10th, 1999 and I am 14 years old. I live in Regina, Saskatchewan and I am in Grade 9 at Winston Knoll Collegiate. I am a very active person and spend many hours on the basketball court. Although basketball is my passion, I am also involved in softball and handball. In school, I am a member of the Student Representative Council where I organize student activities and promote school spirit. Although extra-curricular activities consume the majority of my time, academics also play an important role in my life. In school, I am particularly interested in Math and Science. In the future, I hope to become a...

Kaylee - My name is Kaylee Hayko. I was born on March 23rd, 1997 and am 17 years old. I live in Regina, Saskatchewan. I'm in Grade 11 at Winston Knoll Collegiate and consider myself an active individual. I've been playing volleyball for 6 years, softball for 9 years, and basketball for 11 years. Although sports are important, academics play a big role in my life. I have competed in the past two Canada Wide Science Fairs in Lethbridge and in Charlottetown. This year, my sister and I have paired up to create a science experiment called, Searching for Joules, where we determined how much heat energy, in joules, can be recovered from heated waste water...

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