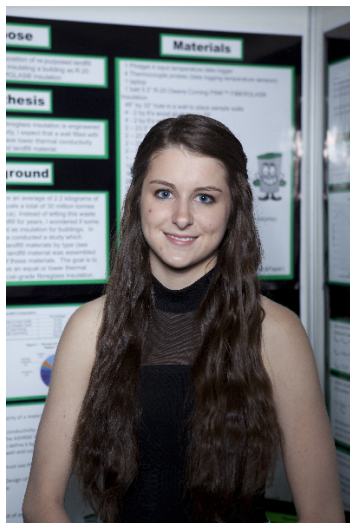


CWSF 2013 - Lethbridge, Alberta



Kaylee Hayko

Wonders of Waste

Challenge: Discovery

Category: Intermediate

Region: Regina

City: Regina, SK

School: Winston Knoll Collegiate

Abstract: My project tests what effect a measured amount of landfill material in a wall has on the thermal conductivity compared to the exact same wall filled with R-20 Owens Corning PINK? FIBERGLAS® Insulation. The experimental results concluded, and show that, when there is an optimized amount of landfill material in the wall, the landfill wall has a lower thermal conductivity, than the insulation wall.

Biography

My name is Kaylee Hayko. I was born on March 23rd, 1997 and am 16 years old. I live in Regina, Saskatchewan. I'm in Grade 10 at Winston Knoll Collegiate and consider myself an active individual. I've been playing volleyball for 5 years, softball for 9 years, and basketball for 10 years. Although sports are important, academics play a big role in my life. Last year I attended CWSF in Charlottetown, PEI, with my project the Flammability of Fabric. This year, my science experiment, Wonders of Waste, creates an alternative way to determine if a defined composition of re-purposed landfill material can be as effective in insulating a building as Owens Corning PINK? FIBERGLAS® Insulation. This project is not only green but solves the growing problem of overflowing landfills. I could expand on this project by testing each landfill material independently and by finding a way to process the landfill material to make installation in the wall easier. Advice I would give students who want to create a project is, to do something that interests them, that can solve an everyday problem, and can help people.

Awards

Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100