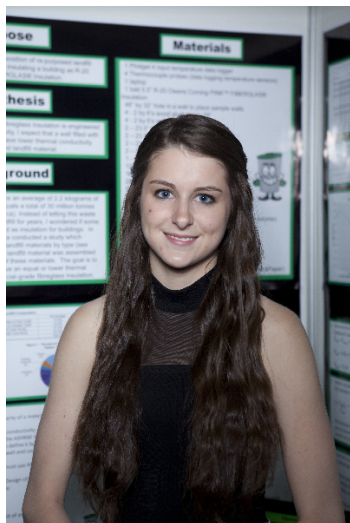


# ESPC 2013 - Lethbridge (Alberta)



## Kaylee Hayko

### Wonders of Waste

**Défi:** Découverte

**Catégorie:** Intermédiaire

**Région:** Regina

**Ville:** Regina, SK

**École:** Winston Knoll Collegiate

**Sommaire:** 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.

### Biographie

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.

### Prix

### Valeur

Prix d'excellence - Intermédiaire - Médaille de bronze Commanditaire: Sciences jeunesse Canada	100,00 \$
Bourse d'études de Western University Médaille de bronze - Bourse d'admission de 1 000 \$ Commanditaire: Université Western	1 000,00 \$
<b>Total</b>	<b>1 100,00 \$</b>