

# CWSF 2011 - Toronto, Ontario



## Abbey-Taylor Weber

### Recycling Expanded Polystyrene: Its Effectiveness as Home Use Insulation

**Challenge:** Environment

**Category:** Intermediate

**Region:** Regina

**City:** Regina, SK

**School:** Thom Collegiate

**Abstract:** The project involved building two miniaturized code-standard doghouses and insulating one with fibreglass insulation and the other with recycled "Styrofoam" sheets. Then, heat retention tests were used to determine which of the materials retained more heat over the course of six hours. The outcomes of these tests were put through statistical analysis to determine the value of the results.

#### Biography

I have been dancing for over twelve years in jazz, tap, ballet, musical theatre, modern, lyrical, conditioning and exam classes, as well as several solos. I have played the part of Mary Poppins and Cogsworth most notably. I spent my entire primary schooling in French immersion and attained city level in the CPF Concours D'Art Oratoire or French Oratory Arts Contest. I enjoy arts and drama, although I love building things and have a passion for invention and engineering. My family operates Flatlands Geothermal and sells Vbine horizontal access wind turbines and GeoStar geothermal units. I am very passionate about the environment and my green club organized the first highschool eco fair in my city.

#### Awards

#### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Total	\$1 300