

# CWSF 2014 - Windsor, Ontario



## A Thaw-ful Situation: A Freezing Apparatus for Experimental Permafrost Failure

**Challenge:** Environment

**Category:** Junior

**Region:**

**City:** ,

**School:**

**Abstract:** This year I decided to create an engineering project. Through research I found that global warming is causing the melting of permafrost. I studied it's melting affect on structures. I tested different slope angles (0°, 10° and 20°) and different temperatures ( 5°C, 10°C and 20°C). I measured the effects on it's melting using time-elapse video cameras and temperature recording software.

Awards	Value
Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	\$300
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 300