

## CWSF 2009 - Winnipeg, Manitoba



### Catch the Solar Wave to \$ave

**Division:** International / Environmental Innovation

**Category:** Junior

**Region:**

**City:** ,

**School:**

**Abstract:** This project examined the effectiveness of solar box collectors, testing five independent variables (depth, colour, surface area, insulation, and number of reflectors) to optimize thermal harvesting. Temperature was measured every fifteen minutes for six hours. A structure with small depth, black colour, large surface area, reflective bubble wrap insulation, and numerous reflectors retained the most heat and attained the highest temperature.

Awards	Value
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Physical & Mathematical Sciences - Junior Sponsor: Encana Corporation	\$300
Total	\$1 300