

CWSF 2007 - Truro, Nova Scotia



Haley Robinson

Sanitary Sunshine: Phase Two

Division: Health Sciences / None

Category: Senior

Region: Northern Saskatchewan

City: La Ronge, SK

School: Churchill Composite H.S.

Abstract: This project uses solar energy to heat water to pasteurisation temperatures. Solar water pasteurisation decontaminates water in developing countries, stopping the spread of disease. Construction plans were developed, and three pasteurisers were built and then tested using contaminated water. Pasteurisers were made of recyclable materials, costing nothing. After each experiment water tests were conducted. Results proved that the hybrid design is the most efficient.

Biography

This is my second Canada Wide Science Fair. I am a cross-country ski racer, and train year round. I recently competed at the 2007 Canada Winter Games. I also enjoy track and field and cross-country running. I play piano, and I am currently working on my grade 8 RCM. I also sing and perform musical theatre. I am very interested in international affairs, and I love to travel.

Awards

Value

CSSE Engineering Innovation Award - Senior Sponsor: Canadian Society for Senior Engineers	\$1 000
Canadian Commission for UNESCO - Science for Peace and Development (MILSET ESI) Award Sponsor: Canadian Commission for UNESCO	\$5 000
Canadian Stockholm Junior Water Prize Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Jacobs	\$2 000
The Manning Innovation Achievement Award Sponsor: Ernest C. Manning Awards Foundation	\$500
The Manning Innovation Achievement Award and \$4000 Manning Young Canadian Innovation Award Sponsor: Ernest C. Manning Awards Foundation	\$4 000
Engineers Without Borders - Canada Award Sponsor: Engineers Without Borders - Canada	\$1 500
Honourable Mention - Engineering - Senior Sponsor: Youth Science Foundation Canada	\$100
Total	\$14 100