



CWSF 2013 - Lethbridge, Alberta



Kelsie Emisch

Aqua Pura: Water Purification with Household Materials

Challenge: Innovation Category: Intermediate

Region: Northern Saskatchewan

City: Air Ronge, SK

Youth Science Canada

PO Box 297

416-341-0040

School: Churchill Composite H.S.

Abstract: For my project 'Aqua Pura' I designed a simple purification apparatus with

only house-hold materials, for those affected by natural disasters. The purification apparatus removes E. coli, Turbidity, Iron, Copper, Phosphate, Colour, and Total Coliform. The purpose of this is so that the disaster victims will be able to produce clean drinking water in hopes of sustaining

themself until help arrives.

Biography

My name is Kelsie Emisch. I am 15 years old and currently residing in Air Ronge, Saskatchewan. I am in grade ten and working hard to graduate a year early. I enjoy science, music, and writing. The inspiration for my project came from seeing a lot of stories on the news about natural disasters. A large number of the victims were dying due to dehydration while waiting for rescue. This broke my heart, so I asked myself 'is there anything I can do to help these people get clean drinking water, using only materials they might have access to?'. So I set forth in designing a water purification procedure with household materials. I am planning on testing more materials and also improving upon my most effective procedure of using a clay pot and solar heat, by building a pressure device for the clay pot. A piece of advice I would give students inquiring on doing a science project is to do something you're very passionate about. I found that I had more drive to better my project this year because I am very passionate about it. Also, don't procrastinate! Work a little bit each day until you're done.

Awards	Value
Excellence Award - Intermediate - Bronze Medal	\$100
Sponsor: Youth Science Canada	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$1 100





