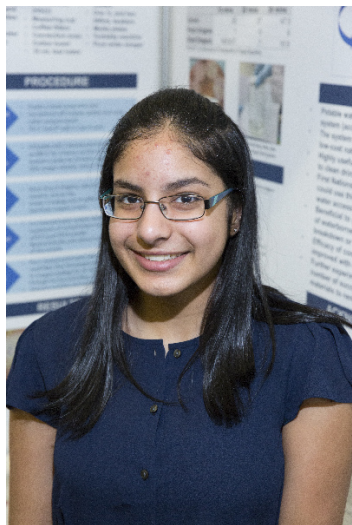


CWSF 2018 - Ottawa, Ontario



Anika Garg

A Novel Water Filtration System Using Natural Materials

Challenge: Environment

Category: Intermediate

Region: Thames Valley

City: London, ON

School: A.B. Lucas S.S.

Abstract: The goal of this project was to create a low-cost filtration system to produce drinkable water using sand, banana peels, and oregano. Observations showed that fresh oregano has a significant effect on the growth of bacteria and dried banana peels have a notable effect on water turbidity. A filtration system was designed using these results that is able to produce clean, potable water.

Biography

My name is Anika Garg and I am a grade 10 student at A.B. Lucas Secondary School in London, Ontario. At school I am involved in DECA, science olympics, Reach for the Top, Model UN, math contests, and the swim team. Until a few months ago, I used to swim competitively for the London Aquatic Club. I also enjoy music as I play piano, clarinet, and sing in the school's choir. I have a strong interest in science and plan on pursuing a career in a STEM field. I love learning about new topics in science, especially about ecology and biology. I got the inspiration for my project while watching a documentary about the bad conditions of drinking water in other countries. After this I became curious and discovered water issues in our own country. This led me to think about innovative solutions to overcome this important issue. This is my second year participating in the science fair, and I really enjoyed working on a project that piqued my interest.

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