



CWSF 2007 - Truro, Nova Scotia



Stephanie Gallant

Mussels: Pollution Solution?

Division: Physical & Mathematical Sciences / None

Category: Junior

Region: Eastern Newfoundland

City: Mount Pearl, NL School: St. Peter's Jr. H.S.

Abstract: This experiment tested to see if blue mussel shells, Mytilus edulis, could

absorb harmful chemicals and bacteria from polluted water. Mussel shells were added to water samples, which were tested over 4 weeks for pH, dissolved oxygen and TDS. Metal and non-metal testing showed a decrease in manganese in freshwater, confirmed later by laser ablation tests showing that mussel shells absorb both manganese and copper.

Biography

I'm 13 years old and I attend St. Peter's Jr. High in Newfoundland, Canada. I enjoy listening to music, playing guitar, piano and saxophone, reading and spending time with my friends. In school, I am involved in the concert band, guitar ensemble and art club. Although I have not decided, some future career plans I am concidering are forensic scientist, forensic anthropologist or medical examiner. Every couple of years my family and I travel to Portugal, as my mom is Portugese.

Awards	Value
The University of Western Ontario Scholarship	\$1 500
Silver Medallist - \$1500 Entrance Scholarship	
Sponsor: University of Western Ontario	
Silver Medal - Life Sciences - Junior	\$700
Sponsor: Pfizer Canada	
Total	\$2 200



