

CWSF 2011 - Toronto, Ontario



Rebecca Sandrelli

Filter Braced for the Pharmaceutically Laced

Challenge: Environment

Category: Senior

Region: Renfrew County

City: Pembroke, ON

School: Bishop Smith Catholic H.S.

Abstract: An acute bio assay utilizing non-climate dependent environmental remediation was employed in the removal of low level concentrations (1ppm) of pharmaceuticals in water. Individual filters of alfalfa and organic rabbit feed were created to remove and/or neutralize pharmaceutical contaminants. Bio indication was observed in the heart rate of *Daphnia Magna*.

Biography

My name is Rebecca Sandrelli and I am a grade 11 student at Bishop Smith Catholic High School in Pembroke, Ontario. I have very diverse interests, some which include sports, science and the environment. I have been a member my high school Cross Country Running Team, Nordic Ski Team and Soccer Team. I am a member of my school's Leadership Team and Co-Chair of the Environmental Action Committee. My passion for science has enabled me to be a finalist and winner in 3 previous Canada Wide Science Fairs and to participate in the Schools On Board Field Program 2009. This past summer I was hired as Nature Director at a summer camp and was able to pass on my love for science and the environment. My future goals are to attend university pursuing a career in Environmental Biology or Medicine.

Awards

Value

Canadian Stockholm Junior Water Prize Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Jacobs	\$300
Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Total	\$2 600