

CWSF 2014 - Windsor, Ontario



Stéphane Chenard

Fertilizer Fiasco: Is Denitrification the Answer?

Challenge: Environment

Category: Senior

Region: Peace Country

City: Peace River, AB

School: Glenmary School

Abstract: The objective of my project is to test the feasibility of a biological filter to strip water of nitrogen compounds, notably nitrates, using denitrifying bacteria isolated from soil samples as the means to do so. The end goal is of this project being to build and test a prototype of this denitrifying filter to prove its viability in a real world application.

Biography

Hello, my name is Stéphane Chenard. I am from Peace River, a small town in northern Alberta. I enjoy the great outdoors and activities outside such as quading, skidooring, fishing and jet boating. This will not be my first time attending a CWSF as I have competed with a partner in the CWSF last year winning bronze in the intermediate category. This year I am working on a biological filter to cleanse runoff water of nitrates using denitrifying bacteria. My advice for students who are thinking about doing a science fair project is this: GO FOR IT!!

Awards

Value

Canadian Stockholm Junior Water Prize Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Jacobs	\$2 000
Excellence Award - Senior - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$100
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$4 100