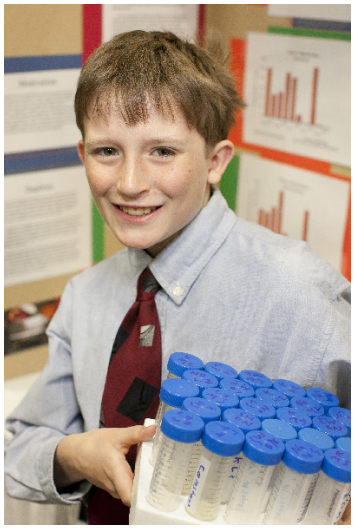
CWSF 2011 - Toronto, Ontario



Laurence Emery

Eco Friendly Road Salt? What Do Daphnia Say?

Challenge: Environment
Category: Junior
Region: Peterborough
City: Peterborough, ON
School: Queen Mary P.S.
Abstract: The volume of road salt Ontario uses is questionable. Most of it ends up in lakes and rivers. My experiment used a water invertebrate called daphnia. I added three salts at three concentrations into their water, NaCl, CaCl2 and KCl. The least harmful in terms of reproduction and death rates was NaCl, CaCl2 had the worst reproduction rates and KCl had the worst death rates.

Biography

I'm Laurence Emery a grade 7 student at Queen Mary PS in Peterborough, Ontario. The first Regional SF I entered was in grade 2 with a project called, "The Eggsperiment." It wasn't a prize winner but the rewarding experience encouraged me to participate each consecutive year. I have interests in various disciplines of science which are reflected in the projects I have done, they include: physics, mechanical applications, human physiology, chemistry and now environmental studies. As I progressed and saw the older students' projects I hoped I could present a high quality experiment that would send me to the CWSF. This is the first year I'm eligible and already my dream has come true! At school I volunteer at the library and make the daily announcements, my riddle of the week is very popular. I also compete on the Track Team and tend to our award-winning butterfly garden. At home I build model airplanes and I'm passionate about fish. I am the neighborhood expert on aquariums. For years I have participated in the Canadian cross country skiing program. I'm also a Scout, figure skater, Kids triathlon participant and an avid canoe tripper. I hope for an amazing experience this year.

Awards	Value
Excellence Award - Junior - 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
Total	$1 300