CWSF 2006 - Saguenay, Québec

Arielle Garrett

A Sphagnum Solution for Safe Water

Division: Earth & Environmental Sciences
Category: Intermediate
Region: Vancouver Island
City: Saanichton, BC
School: Stelly's Secondary School
Abstract: I attempted to apply Sphagnum moss as a reusable heavy metal filter, and I was successful. Not only is it very effective at removing most poisonous metals, its reusability, done simply by placing it in an acidic solution, makes it ideal for poor effected families.

Awards	Value
The University of Western Ontario Scholarship Gold Medallist - $2000 Entrance Scholarship Sponsor: University of Western Ontario	$2 000
Gold Medal - Earth & Environmental Sciences - Intermediate Sponsor: Petro-Canada	$1 500
Total	$3 500

CWSF 2006 - Saguenay, Québec

Alice Jourmel

Gas Identification Using a Resonance Tube

Division: Physical & Mathematical Sciences
Category: Intermediate
Region: Vancouver Island
City: Duncan, BC
School: Frances Kelsey Secondary

Abstract: This project used a resonance tube designed and built by the student to create and identify resonance frequencies in three gases, the purpose of which was to determine the molecular masses of the gases as a means of identification. The gases used were balloon helium, welding oxygen and carbon dioxide.

Awards	Value
CAP Physics Prize - Intermediate Sponsor: Canadian Association of Physicists	$250
Total	$250

CWSF 2006 - Saguenay, Québec

Simon Bild-Enkin

Medieval Arches on Shifty Ground

Division: Engineering
Category: Intermediate
Region: Vancouver Island
City: Victoria, BC
School: Esquimalt Community School
Abstract: How do different arches react to differential settling of their foundations? I made three arches, Romanesque, Gothic, and Catenary, of styrofoam and moved their legs horizontally or vertically. The resulting deformations and collapses showed that the Catenary and Gothic are the most stable. The arches fell in specific patterns, and this knowledge will help structural engineers predict where arches will hinge, slide or twist.

Awards	Value
Honourable Mention - Engineering - Intermediate Sponsor: Youth Science Foundation Canada	$100
Total	$100

CWSF 2006 - Saguenay, Québec

Tovel Boucher

Propulsion par le Vent

Division: Engineering
Category: Intermediate
Region: Vancouver Island
City: Sidney, BC
School: L'ecole Victor Brodeur
Abstract: My qustion is : is it possible to create a vehicle that can propel itself up wind using only wind . I designed and created two vehicles , both of which worked according to the criteria above .

Awards	Value
The University of Western Ontario Scholarship Silver Medallist - $1500 Entrance Scholarship Sponsor: University of Western Ontario	$1 500
Silver Medal - Automotive - Intermediate Sponsor: AUTO21	$700
Total	$2 200

CWSF 2006 - Saguenay, Québec

Renée Rogers

Run of the Mill

Division: Health Sciences
Category: Junior
Region: Vancouver Island
City: Victoria, BC
School: St Margaret's
Abstract: I did an experimental project to determine whether or not running on the treadmill was less exercise than running outside on a track. i had eleven subjects participate in my experiment, and my results showed that running on the treadmill is less exercise.