



## CWSF 2005 - Vancouver, British Columbia



## **Ryan Giuliany**

## The Force of Magnetic Repulsion

**Division:** Physical & Mathematical Sciences

Category: Senior

**Region:** Vancouver Island **City:** Victoria, BC

School: Esquimalt High School

Abstract: I hypothesized that the force between two repelling magnets would mimic

electrostatic point charges and that the force of magnetic repulsion would be inversely proportional to the square of the distance separating the magnets. The empirically derived proportionality disproved my hypothesis.

The force was inversely proportional to the distance cubed.

Awards	Value
Petro-Canada Peer Innovation Award - Senior - Western Canada	\$200
Sponsor: Petro-Canada	
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Physical & Mathematical Sciences - Senior	\$300
Sponsor: Encana Corporation	
Total	\$1 500



