

## CWSF 2005 - Vancouver, British Columbia



### Ryan Giuliani

#### 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 Sponsor: Petro-Canada	\$200
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Physical & Mathematical Sciences - Senior Sponsor: Encana Corporation	\$300
<b>Total</b>	<b>\$1 500</b>