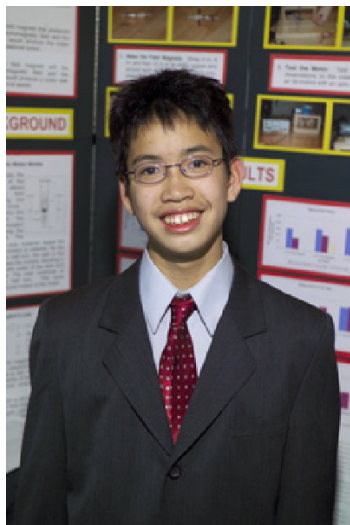


## CWSF 2005 - Vancouver, British Columbia



### Alex Leung

#### How Fast Can You Go?: The Study of Factors that Affect the Rotational Speed of Motors

**Division:** Physical & Mathematical Sciences

**Category:** Junior

**Region:** Bay Area

**City:** Oakville, ON

**School:** Oakville Christian School

**Abstract:** The purpose of this experiment was to determine if the rotor, field magnets, and air gaps have an effect on the speed of a two-pole motor. I hypothesized that all three factors would have an effect. I created and tested the speed of eighteen motors. The results supported the hypothesis.

Awards	Value
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Physical & Mathematical Sciences - Junior Sponsor: Encana Corporation	\$300
Total	\$1 300