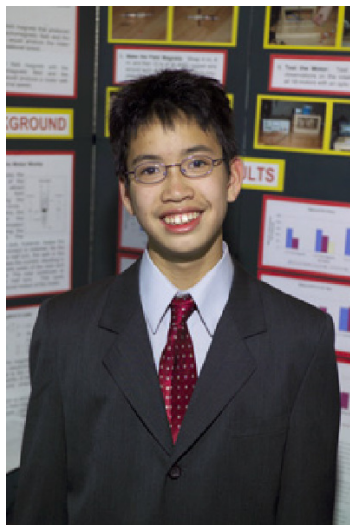


CWSF 2005 - Vancouver, British Columbia



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