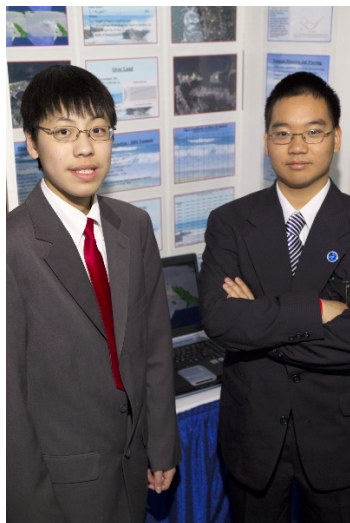


## CWSF 2005 - Vancouver, British Columbia



### Alan Lam, David Lam

#### Tsunamis: Generation, Propagation and Shore Interaction

**Division:** Physical & Mathematical Sciences

**Category:** Senior

**Region:** Toronto

**City:** Toronto, ON

**School:** Marc Garneau Collegiate Institute

**Abstract:** Theories explaining seismological tsunami generation, propagation and shore interaction were reviewed in detail. These were applied to the 2004 Sunda-Trench tsunami to determine characteristics such as wave speed, wave height, wavelength, run-up height and velocity. A basic model of a tsunami was effected to demonstrate established theory.

Awards	Value
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$2 000
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Physical & Mathematical Sciences - Senior Sponsor: Encana Corporation	\$700
Total	\$4 200