



## CWSF 2007 - Truro, Nova Scotia



## Biography

My name is Mark Stothers, and I am a grade 11 student living in Surrey, BC, attending Lord Tweedsmuir secondary school. Throughout high school I have had a 4.0 GPA, and recently scored 98% on my Math 12 provincial examination. I am also taking Calculus 12 this semester. This is my fifth year participating in the Greater Vancouver Regional Science Fair, and my second year heading to the CWSF (I attended last year's fair in Saguenay, Quebec). In grade 7 I began competing in the GVRSF, and have been addicted ever since. Sports that I am involved in include Badminton, Floor Hockey, Track, and Curling (for the past seven years). This year I skipped my curling team to first place in my block. I have now been playing trumpet for the past five years, after having an amazing band teacher in grade 7. I have won numerous outstanding instrumentalist awards at my school. I also help younger math students at my school in math tutorials on Tuesday and Thursdays, in addition to being involved in the students council. Academic teams I am involved in include the Physics Olympics, Kwantlen Science Challenge, and the Math team at my school.

## **Mark Stothers**

## Feel The Flow 2: Microbubbles

Division:	Health Sciences / Automotive
Category:	Senior
Region:	Greater Vancouver
City:	Surrey, BC
School:	Lord Tweedsmuir Secondary
Abstract:	In the past Engineers have struggled to decrease ship resistance by 1% or less, by means of new ship hull designs. "Feel The Flow 2: Microbubbles" uses microbubbles to create a boundary layer between the ship hull and water to attempt to reduce drag by 20%. A 2.4m drag tank was constructed in my basement for testing, statistics were used in the treatment of data.

Awards	Value
International Summer School for Young Physicists Award	\$2 500
Sponsor: Perimeter Institute for Theoretical Physics	
Total	\$2 500



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