

## CWSF 2007 - Truro, Nova Scotia



### Michael Verdirame, Kinsey Lam

#### Onion Power

**Division:** Engineering & Computing Sciences / None

**Category:** Senior

**Region:** York

**City:** Markham, ON

**School:** Brother André Catholic H.S.

**Abstract:** In attempt to find a more efficient method of producing ethanol from organic matter, *Allium cepa* (onions) were fermented by *Saccharomyces cerevisiae* (yeast). This method produced up to 0.22 grams of ethanol per kilogram of onions in a high school laboratory setting. Using a combination of results and statistical analysis, onions may be the favourable crop for ethanol.

#### Biographies

Michael - From Markham, Ontario, Michael Verdirame is an accomplished Grade 12 student and student leader at Brother Andre Catholic High School. Growing up on a near a large forest, Michael quickly developed an appreciation for the life sciences and the outdoors. Last year, he co-founded the Recycling Committee at his school. In his spare time, he enjoys riding and racing his dirt bike in the great outdoors.

Kinsey - I am currently in my last semester of high school, and the first semester of my grade twelve year was spent at the Ontario Science Centre Science School. I am an active part of the student community and vice president of the Luke 4:18 social justice councilmat my school. My time is divided between volunteering at an old age and art, which I am very passionate about. I am hoping to pursue a career in medicine and possibly ophthalmology.

#### Awards

#### Value

Dalhousie University Faculty of Science Entrance Scholarship Senior Gold Medallist - \$4000 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$4 000
UBC Science (Vancouver) Entrance Award Senior Gold Medallist - \$4000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$4 000
The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Gold Medal - Earth & Environmental Sciences - Senior Sponsor: Petro-Canada	\$1 500
<b>Total</b>	<b>\$11 500</b>