



## CWSF 2011 - Toronto, Ontario



## **Ellen Song**

Apple Aroma: Enhancement of Apple Volatile Production Using Precursor Treatments

Challenge: Innovation Category: Senior

Region: Annapolis Valley
City: Wolfville, NS
School: Horton High School

Abstract: The production and characterization of apple volatiles were investigated by

chemical and sensory studies. Apples were exposed to specific precursor solutions and it was found that treated apples had greater levels of aroma volatile production compared to the control. This shows that apple aroma can be enhanced and improved. Unique volatile profiles can be generated

by apples, which has potential for commercial applications.

## Biography

I am a grade 11 student at Horton High School, where I am part of the Students Council Executive, and participate in many other school groups and activities, such as peer tutoring. I also ran on the cross country team and went to provincials. The fine arts are also a very important part of my life, I am currently enrolled in the advanced art program at school, and I am a member of the choir, Concert band, jazz band in which I play trombone. I was also a member of the Acadia University Symphonic band, in which I played flute. I also play piano, I have done so for 11 years and last year, I placed first in the junior piano category at the Provincial Music Festival. I have completed all RCM requirements for grade 10 piano, and am currently working on my ARCT in piano performance. I have done science fair projects for as long as I can remember, but this is my first year going to the CWSF, and I am really looking forward to it. In the future, I want to major in chemical or biochemical engineering.

Awards	Value
International Year of Chemistry (MILSET ESI) Award	\$5 000
Sponsor: Canadian Commission for UNESCO	
Excellence Award - Senior - Silver Medal	\$700
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$2 500
Senior Silver Medallist - \$2500 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
The University of Western Ontario Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Total	\$14 200



