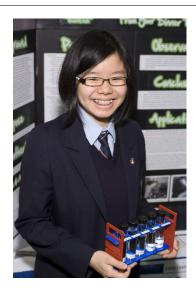




CWSF 2009 - Winnipeg, Manitoba



Stephanie Chan

Power Your Car - From Your Dinner Table

Division: Biotechnology / Automotive

Category: Intermediate

Region: Waterloo-Wellington City: Cambridge, ON

School: St. John's-Kilmarnock School

Abstract: This project used industrial organic waste (apple pomace, pineapple peel

> and core, potato peel, overripe banana) to produce a commercially viable biofuel using Saccharmyces bayanus yeast. Each feedstock was compared in terms of ethanol yield and the cost-effectiveness of production. Potato peel was found to yield the most ethanol, but apple pomace was the most cost-effective due to the cost-limiting factor of starch-converting enzymes.

Biography

I am a Grade 10 student who likes participating in all kinds of activities, both inside and outside of school. I play varsity basketball and volleyball, and am a member of the volleyball team that recently won the U16 CISAA Championship. Academically, I've been a top student at my school for the past 6 years. I enjoy participating in debates and math contests, and was the school champion in the American Mathematics Contest for my grade. I also like writing, and one of my poems won first place in the Elora Writing Festival Competition last year. Furthermore, I'm part of two school choirs. I am an avid piano player and was invited to participate in the Kiwanis provincial finals in 2007, and I will be taking my RCM Grade 10 exam this June. In my spare time, I like to read, surf the Internet, play video games, and ride my bike around the neighbourhood. I really love travelling the world, and I have been to many countries including Japan, England, and Russia. I hope to attend the University of Toronto to become a medical professional and to work with Doctors Without Borders.

Awards	Value
The University of Western Ontario Scholarship	\$1 500
Silver Medallist - \$1500 Entrance Scholarship	
Sponsor: University of Western Ontario	
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Biotechnology & Pharmaceutical Sciences	\$300
Intermediate	
Sponsor: Youth Science Canada	
Silver Medal - Automotive - Intermediate	\$700
Sponsor: AUTO21	
Total	\$3 500





