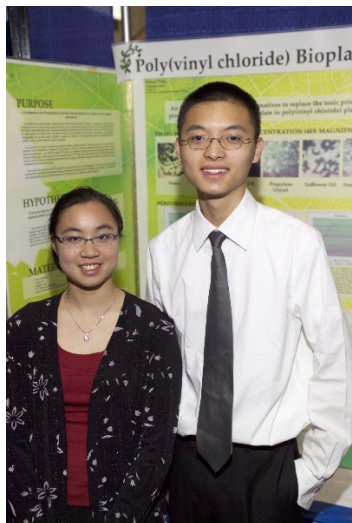


CWSF 2006 - Saguenay, Québec



Robyn Thom, Thomas Sun

Poly(vinyl chloride) Bioplasticizers

Division: Engineering & Computing Sciences

Category: Senior

Region: Greater Vancouver

City: Vancouver, BC

School: Sir Winston Churchill Secondary

Abstract: PVCs are dangerous to the environment, and also pose human health risks through the leaching of DEHP, a primary plasticizer. We replaced DEHP with safe, readily-available vegetable oils and tested for plastic performance. From our results, safflower oil appears to be a safe, biodegradable DEHP replacement.

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 Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Earth & Environmental Sciences - Senior Sponsor: Petro-Canada	\$700
Gold Medal - Automotive - Senior Sponsor: AUTO21	\$1 500
Total	\$7 700