



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



