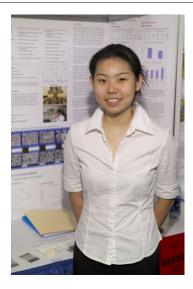




CWSF 2005 - Vancouver, British Columbia



Tiffany Lu

Biopolyurethane Rigid Foams Based on Isolated Lignins

Division:	Earth & Environmental Sciences
Category:	Senior
Region:	Greater Vancouver
City:	Richmond, BC
School:	Sir Winston Churchill Secondary School
Abstract:	This study focuses on utilizing one of the natural polymer resources, lignin to replace the synthetic polyol in producing biodegradable polyurethane rigid foams. Different experiments were conducted to test factors, including density and compressive strength, which affect the practical application of rigid foams.

Awards	Value
Chemical Education Fund Award - Senior	\$500
Sponsor: Chemical Institute of Canada	
Environment and Plastics Industry Council Award - Senior	\$750
Sponsor: Environment and Plastics Industry Council	
Pulp & Paper Technical Association of Canada Award	\$500
Sponsor: Pulp & Paper Technical Association of Canada	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 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	
Gold Medal - Earth & Environmental Sciences - Senior	\$1 500
Sponsor: Petro-Canada	
Total	\$9 250



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