



CWSF 2007 - Truro, Nova Scotia



Laurissa Christie

"McFries to McFuel" Biodiesel

Division: Health Sciences / Automotive

Category: Junior
Region: Bluewater
City: Tara, ON
School: Arran-Tara

School: Arran-Tara E.S.

Abstract: Biodiesel was manufactured with margarine oil. The combustion of

biodiesel resulted in lower emissions than commercial and agricultural diesel fuels. The energy output of the various fuels was comparable. Vehicle performance tests were conducted to compare a 50% biodiesel blend with commercial diesel. A Vericom was used to measure the acceleration, horsepower, distance, and speed of the vehicles. The results

were similar for both fuels.

Biography

Laurissa is a grade 8 student at Arran-Tara Elementary School. She lives in rural midwestern Ontario with her family on a broiler chicken and red deer farm. She loves to figure skate and proudly represents her local club at competitions. Laurissa enjoys spending time with her family snowmobiling in the winter and in the summer at the cottage swimming, boating, tubing, and riding the sea-doo. She also enjoys traveling to visit her aunts in southern California. She recently has done some acting with the local theatre group. In 2005 Laurissa was the teen trebuchet Canadian "pumpkin chuckin" champion and currently is the teen catapult Canadian "pumpkin chuckin" champion. Her interest in biodiesel was sparked by her father while he was reading an agricultural magazine article on renewable energy. In the future she hopes to attend university and pursue a career in the energy industry.

Awards	Value
The University of Western Ontario Scholarship	\$2 000
Gold Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Engineering - Junior	\$300
Sponsor: Youth Science Foundation Canada	
Gold Medal - Automotive - Junior	\$1 500
Sponsor: AUTO21	
Total	\$4 800



