



CWSF 2013 - Lethbridge, Alberta



Jared Trask, Kaitlyn Stockley

Biodiesel Production Can Be a Fishy Business

Challenge: Energy Category: Senior

Region: Eastern Newfoundland **City:** Conception Bay South, NL

School: Holy Spirit H.S.

Abstract: Globally, 38 million tonnes of fish waste are sent to landfills or dumped in

the ocean and provide no economic value. Our project focused on producing a biofuel from fish waste and looking at antifreeze proteins native to our species of fish. This was done using a modified fish meal processing

method for oil extraction and performing oil yield, cold flow and lipid

analysis tests.

Biographies

Jared - In high school, my favorite subjects are Chemistry, Physics and Mathematics? areas that will position me to pursue my education and career interests in the field of engineering. Based on my high academic achievement last year, I won a competitive Research-Inspired Student Enrichment (RISE) Award from the Research & Development Corporation to attend the University of Toronto's Da Vinci Engineering Enrichment Program (DEEP) for 4 weeks. That was both an education and cultural experience as I met people from all over the world. I have been fortunate to have experience in a range of university research labs from genetics to process engineeri... Kaitlyn - I am a grade 12 student at Holy Spirit High School. I am involved in many different things such as The Duke of Edinburgh Awards Program, Public Speaking (Skills Canada, School and Community Competitions), Volleyball, Tutoring for Tuition...etc. I have been accepted for the Fall 2013 semester to attend Memorial University of Newfoundland, in hopes of becoming a doctor. The inspiration for our project came last summer when I worked at Memorial University's Women in Science and Engineering Program in a laboratory setting. I loved working on extractions involving different species of fish, so I wished to pursue this matter further. Future investi...

Awards	Value
Excellence Award - Senior - Bronze Medal	\$100
Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$2 100





