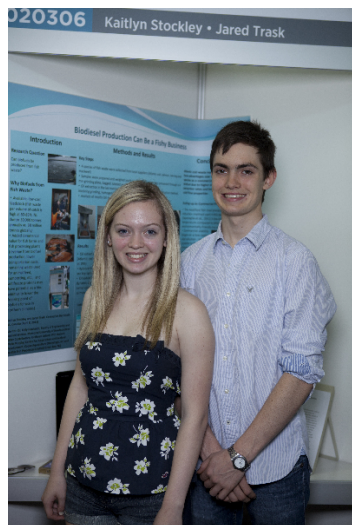


## ESPC 2013 - Lethbridge (Alberta)



### Jared Trask, Kaitlyn Stockley

#### Biodiesel Production Can Be a Fishy Business

**Défi:** Énergie

**Catégorie:** Sénior

**Région:** Eastern Newfoundland

**Ville:** Conception Bay South, NL

**École:** Holy Spirit H.S.

**Sommaire:** 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...

#### Prix

#### Valeur

Prix d'excellence - Senior - Médaille de bronze Commanditaire: Sciences jeunesse Canada	100,00 \$
Bourse d'admission de l'Université d'Ottawa Médaille de bronze, sénior ? Bourse d'admission de 1 000 \$ Commanditaire: Université d'Ottawa	1 000,00 \$
Bourse d'études de Western University Médaille de bronze - Bourse d'admission de 1 000 \$ Commanditaire: Université Western	1 000,00 \$
<b>Total</b>	<b>2 100,00 \$</b>