

# CWSF 2009 - Winnipeg, Manitoba



## Kirstan Cruse, Lindsay Dimler

### Solar Separation: The Production of Eco-Friendly Fuel

**Division:** Health Sciences / Automotive

**Category:** Intermediate

**Region:** Central Interior British Columbia

**City:** Prince George, BC

**School:** Westside Academy

**Abstract:** The goal of this project was to determine if, by using solar energy to split hydrogen and oxygen from water, we could produce enough hydrogen fuel to run a fuel cell vehicle in northern climate low light levels. Using a solar panel for the process of electrolysis to produce the hydrogen, we discovered that our hypothesis was correct and we could also reduce greenhouse emissions.

#### Biographies

**Kirstan** - My name is Kirstan Cruse. I enjoy playing my saxophone in our school band and playing soccer and football. I am currently involved in a music/drama group called Parables. I also play bass in the Parables band. In 2010, Parables will be going to New York for a missions trip to work with homeless people and we will be teaming up with NYSUM. For my post secondary /career plans I plan on being involved with psychology and/or children. Recently in our regional science fair at UNBC, my partner and I received six awards, including a gold medal. I have participated in the QuizMe game show.

**Lindsay** - My name is Lindsay Dimler, I am from Prince George, BC. I enjoy playing classical piano and am currently starting my grade 7 Repertoire. I am involved in a music/drama group called Parables and the group plans on taking a trip to New York in 2010, working with homeless outreach, involved with NYSUM. My post secondary/career plans include studying for my BSc and I plan on being a physiotherapist for my career choice. Recently, for the regional science fair at UNBC, my partner and I received six awards, including a gold medal. These were: Best in Category, Automotive Science-Level I; 2009 EnviroExpo Award; SCWIST Award (Society for Canadian Wom...

#### Awards

#### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Automotive - Intermediate Sponsor: AUTO21	\$300
<b>Total</b>	<b>\$1 300</b>