

## CWSF 2019 - Fredericton, New Brunswick



### Sophie Petersen

#### Refuelling Our World

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Central Alberta Rotary

**City:** Olds, AB

**School:** Olds Junior Senior High School

**Abstract:** My project focused on converting polyethylene (plastic) into gasoline. This process was completed at a laboratory with the help of a chemist. We put tiny pieces of high and low density polyethylene in a flask with kaolin clay (catalyst) and heated it. The materials vapourized and were condensed. This resulted in a light distillate with the properties of gasoline.

#### Biography

Hi! I am Sophie Petersen. I am a grade 10 student at Olds High School. In general, I love to learn. I am interested in fashion/clothing, photography, and traveling. I have had the privilege of traveling many places across the world and I love how unique each place is. I wish to pursue business management and/or fashion design in post-secondary. I also love the world of economics and trade and wish to pursue a career in that area. I feel passionate about the world's pollution and that's where my project came from. I hope to discover a way to perform my project on a larger industrial scale. Advice I would give is to find a topic that you are really ready to dive into.