

## CWSF 2018 - Ottawa, Ontario



### Allison Bennett

#### A Burning Passion for Alcohol

**Challenge:** Energy

**Category:** Senior

**Region:** Regina

**City:** Regina, SK

**School:** Winston Knoll Collegiate

**Abstract:** To study how the length of the molecules that make up different alcohols affects how they burn, I compared the time required to burn methanol, ethanol, propanol, and butanol. I found the longer the molecule, the longer it burns. This is interesting because it shows that butanol is the most fuel efficient of the alcohols tested, therefore potentially a renewable, less harmful alternative to gasoline.

#### Biography

I was inspired to base my project on the use of alcohols as fuels by my interest in chemistry and in aircraft. If I decide to take this project further it will likely involve attempting to find a faster or more cost effective way of creating biobutanol. My advice to other students thinking about doing a project would be to pursue what you're passionate about, and don't shy from what you don't yet understand. Other things I'm passionate about are my school musicals and plays, choir, air cadets, and volunteering at my local soup kitchen. I enjoy chemistry, physics, aviation, drawing, acting, travelling, and photography. I hope to earn my Glider Pilot Licence this summer through air cadets, where I am currently a Flight Sergeant. After high school I plan on attending the University of Regina for Pre-Optometry, then the University of Waterloo for Optometry so I can become an optometrist.

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