

CWSF 2016 - Montreal, Quebec



Mariam Alaeddine

Ethanol: Heating Things Up

Challenge: Energy

Category: Senior

Region: Sudbury

City: Sudbury, ON

School: Lo-Ellen Park S.S.

Abstract: This project investigates whether adding acetone, an organic compound, will increase ethanol's overall energy output as well as its efficiency as a bio fuel additive in terms of cost and cleanliness to the environment. First a calorimeter was made to calculate the overall thermal energy of the mixture. Furthermore the mixture was massed before and after combustion to calculate the amount of carbon dioxide emitted.

Biography

My name is Mariam Alaeddine, I am 16 years old and I live in Sudbury Ontario. I currently attend highschool at Lo-Ellen Park S.S and because of the amazing teachers and staff that have taught me there, I have grown to have an incredible love of science, more specifically Chemistry. Which is really where I got my inspiration for investigating a more efficient biofuel for my Science Fair Project. I plan in the future to go into Chemical Engineering and continuing my investigations. I am also a part time volunteer at Science North, in Sudbury Ontario, where everyday I learn new scientific concepts which further inspires me to contribute in science and helping our society and earth become a better place. For future aspiring students, I suggest studying a topic you are passionate about. This will give you more inspiration to push yourself to succeeding in completing a great science fair project!