



CWSF 2014 - Windsor, Ontario



Caroline Mahut

Feeding, Fueling and Forging the Future

Challenge: Innovation
Category: Intermediate
Region: Bay Area
City: Burlington, ON
School: M.M. Robinson H.S.

Abstract: The purpose of my project was to determine if algae is able to grow under

products of combustion and if so, what affects the growth rate. I tested the algae in a homemade bioreactor and found that it grew better under flue gas, on flue gas timed intervals, with increased light intensity and with a

standard bubbling design.

Biography

My name is Caroline Mahut and I am 15 years old. I was born February 1st 1999 in Burlington, Ontario. I am a Grade 9 student in the French Immersion Program at M.M. Robinson High School. As I have a polish heritage, I am fluent in the Polish language as well as French and English. My favourite hobbies include reading, playing piano and cross country running. I am also a member of the Polish girl guides and attend Polish language classes. I plan to become a lifeguard and, to date, have completed the Bronze Cross Swimming course. My project inspiration came from my project from the previous year about fuel efficient aircrafts. I realized that fuel efficiency will prolong the amount of time we have our fossil fuels and instead we should be searching for newer, renewable fuel sources. I then decided to look into algae biofuels and I learned about all the other environmental benefits that it also provides. If you are considering doing a science project it is best to start with an exciting topic that really interests you and keep exploring new ideas that improve it.

Awards	Value
Excellence Award - Intermediate - Bronze Medal	\$100
Sponsor: Nuclear Waste Management Organization	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$1 100



