

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s) Sejal Chopra	Project Number J0608
Project Title From Fryer to Fuel	
Abstract Objectives/Goals The purpose of this experiment is to find out which frying grease will produce t of quantity and quality as an end result. Methods/Materials First, I filtered my four, restaurant obtained oils (Vegetable Oil, Olive Oil, and Oil) and removed any traces of water by boiling it. Then, I created methoxide, weeks. Distinct layers of glycerol and biodiesel started to form and after three v oil. Finally, to really test its quality, I ran a few tests, such as the 3/27 methyl al biodiesel truly was biodiesel. Results My hypothesis is the following: If the amount of biodiesel made is tested from 1 Oil, Olive Oil, and Canola Oil, then Canola Oil will produce the most biodiesel correspondence with the hypothesis, the average oils produced biodiesel from a amount in the following order: Vegetable Oil (193 ml), Canola Oil (155 ml). Conclusions/Discussion I learned a lot from doing this project. I learned that out of four commonly used Oil is the best oil to use in making biodiesel in terms of quantity and quality. Fr was to accomplish making a simple batch of diesel, and more importantly, the c further expanded my knowledge in chemical reactions, which I can definitely approximation.	Canola Oil, then Canola which was necessary for e and let it sit for three veeks, I siphoned out the cohol test, to see if my Soybean Oil, Vegetable in the end result In greater amount to the least bybean Oil (116 ml), and I frying greases, Vegetable om this, I saw how easy it chemistry behind it. This
Summary Statement I will test which frying grease will produce the most biodiesel in terms of quant commonly used frying oils.	ity and quality from four

Help Received

My mother and father helped me obtaining my oils. My science teacher, John Briner, supervised me during my time experimenting in the lab.