



CWSF 2017 - Regina, Saskatchewan



Noha Shehata

A Novel Way to Recycle Shrimp Shells into Biodegradable Plastic

Challenge: Innovation Category: Senior

Region: Eastern Newfoundland

City: St. John's, NL

School: Holy Heart High School

Abstract: As the stability of the environment begins decreasing due to factors like

climate change and waste production, it becomes more important to adapt our lives to it. This project aims to create an environmentally friendly plastic as an alternative to the harmful plastic that is being produced on a mass

scale.

Biography

My name is Noha Shehata and I am a grade 11 student living in St. John's, Newfoundland. My favorite past times include volleyball, writing and also volunteering in my community. Though I have always leaned more towards literature and history, I am also very environmentally cautious. After months of looking for a project idea for the regional science fair, I remembered when I stumbled upon a plastic bottle floating in the middle of the Arctic ocean in 2016. It was a turning point for me. I tried finding ways to cut plastic out of my life, but then I realized that that goal was virtually impossible. So instead, I decided to try and find a way to make it less harmful to the environment, creating a low-cost, 100% biodegradable plastic material from shrimp shells. My trip to the Arctic, as well as the idea of the '3 R's' (reduce, reuse, recycle), inspired this project. By reusing shrimp shells and recycling them into biodegradable plastic, we can greatly reduce the amount of waste being put into our oceans.

Awards	Value
Excellence Award - Senior - Bronze Medal	
Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$2 000





Youth Science Canada

