

CWSF 2018 - Ottawa, Ontario



Holden Ford

Go Green or No Green?

Challenge: Energy

Category: Junior

Region: Waterloo-Wellington

City: Conestogo, ON

School: Centennial P.S.

Abstract: In 2016, Canada burned more than 16 billion liters of diesel, just one of many non-renewable fossil fuels. Because of the environmental implications associated with burning fossil fuels it's important that an alternative fuel source is found. This project explores the viability of biodiesel as an alternative fuel source. It considered fuel efficiency and economy, and observed emissions from a variety of biodiesel fuel blends.

Biography

Holden Ford is an aspiring engineer who hopes to attend the University of Waterloo for mechanical or mechatronics engineering before pursuing graduate studies in biomechatronics engineering at Massachusetts Institute of Technology. Holden fills his time playing lacrosse, snowboarding, reading and exploring the world of STEM. Through his studies and interests, Holden has focused a lot of time and energy on the environment. His passion for making the world better inspired him to research ways we can combat the very large problem of global warming. This led him to mix his own biodiesel and blend it with nitro remote control (RC) fuel see if it could be run in an (RC) car. He hopes to try these biodiesel blends with diesel in a full-scale car or truck. Throughout this science project, Holden encountered a number of road blocks. But, he was certain of his research and determined to see the project through. Holden has demonstrated grit and perseverance and through the duration of this project, learned the importance of tenacity and resilience when experimenting.

Awards

Value

Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000