CWSF 2015 - Fredericton, New Brunswick

John Fish

GPS Footprint: A Modern Approach to Emissions

Challenge: Innovation
Category: Intermediate
Region: Waterloo-Wellington
City: Waterloo, ON
School: Laurel Heights S.S.

Abstract: Carbon dioxide is the most radiative forcing greenhouse gas, and is commonly released through transportation. To measure these transportation carbon dioxide emissions, a phone application was created that combines GPS data with the fuel economy of multiple methods of transportation. Accurate data presented in a meaningful manner should act as an incentive to lower a person's carbon dioxide emissions.

Biography

My name is John Fish, and I'm a 15 year old student in grade 10 from Waterloo, Ontario. A major passion of mine is running, and my primary race distances are 400m and 800m. I won a provincial track gold medal twice and a bronze medal three times. Another major passion of mine, which led to my science fair project, is programming. I've released five apps on the Blackberry World and Google Play store, one of which is called "GPS Footprint" and is the basis for my science fair project. A talk with my brother about using computer science to help the environment provided the inspiration to create this app/project. I want to pursue this field in the future, and be able to combine STEM with environmental issues. At my regional fair I won a gold medal as well as best in division for earth and environmental science.