

CWSF 2007 - Truro, Nova Scotia



Alexis Rowlinson

Hydrogen - Fuel of the Future

Division: International / Automotive

Category: Intermediate

Region: Northwestern Ontario

City: Thunder Bay , ON

School: Sir Winston Churchill C.V.I.

Abstract: This project studied the production of hydrogen and its use as an alternative fuel. Hydrogen was generated using sodium hydroxide, water and aluminum pop cans (the independent variable), which reacted in a hand-made generator, attached to a filter and also to an engine. It was concluded that the engine could run for approximately 1 minute, 30 seconds on hydrogen (with 3 aluminum cans used).

Biography

I am 15 years old and currently in the grade 10 pre-IB program at Sir Winston Churchill High School in Thunder Bay, Ontario. I am also a member of the Senior Concert Band where I just returned from playing on a cultural exchange in Cuba, am a Senior Branch member, and am a Junior Leader with a Sparks unit. My hobbies include practicing on the piano or the clarinet, reading, and volunteering. I would eventually like to continue my studies in the social sciences and possibly obtain a career in ethnomusicology. At my local science fair, I won the best in earth/environment science award, the hydro one ambassador award, and the Bell Canada engineering/ communications award.

Awards

Value

Petro-Canada Peer Innovation Award - Intermediate Ontario North & East Sponsor: Petro-Canada	\$200
Total	\$200