

CWSF 2007 - Truro, Nova Scotia



Miguel Aroca-Ouellette

Your Solution To Lawnmower Pollution

Division: Engineering & Computing Sciences / Automotive

Category: Junior

Region: Greater Vancouver

City: Vancouver, BC

School: Point Grey Secondary

Abstract: Though it may not seem like it, gas lawnmowers are a significant source of pollution. My project's purpose is to reduce these emissions via the approach of using a catalyst or by changing the fuel mixture used in the gas lawnmower. I measured the CO₂ emissions from different Ethanol/Gasoline fuel mixtures with a titration process and I measured the other emissions with a gas analyzer.

Biography

My name is Miguel Aroca-Ouellette and I am representing the Greater Vancouver Region at the CWSF. I did my elementary schooling at Rose-des-Vents which is part of the francophone school system in Vancouver. This year I am in Grade 8 at Point Grey Mini School. I love to play the guitar, french horn and saxophone (the latter two I play in concert band and Jazz band respectively). I am on the school rugby and volleyball team and I love to play soccer. My favorite subjects at school are Japanese, Science, Math and P.E.. I speak french, spanish and english. I want to study subatomic physics and engineering when I got to university.

Awards

Value

Honourable Mention - Automotive - Junior Sponsor: AUTO21	\$100
Honourable Mention - Earth & Environmental Science - Junior Sponsor: Petro-Canada	\$100
Total	\$200