



CWSF 2007 - Truro, Nova Scotia



Nathan Magwood

Making \$\$ Green \$\$ from Greenhouse Gas

Division: Engineering & Computing Sciences / Automotive

Category: Junior
Region: Bluewater
City: Hanover, ON

School: Hanover Heights Community School

Abstract: Nine digesters were constructed to test various ratios of cattle manure and

corn silage at three different temperatures, to find the most efficient method for methane production. It was concluded that 100% manure was the most efficient way to produce methane at higher (Thermophylic) temperatures. At lower (Psychrophylic) temperatures, it was found that the most efficient ratio

was 33% manure and 67% corn silage.

Biography

Hello, my name is Nathan Magwood. I was born in Hanover. My parents are dairy farmers in the township of West Grey which is located in Grey County. I have a sister Jennifer and a brother Matthew who are older. I have loved animals such as dogs, cats and calves since I was young. I showed my first calf as a five year old the the Durham Fall Fair in the Junior Calf Club. I have showed a heifer calf every year since and am a member of the Durham 4-H Dairy club. Although I don't play hockey or baseball, I like to read a lot about how each team does. I am told I am the resident hockey expert of the family. Dad, Matthew and I attend a few Attack Hockey Games each year.(OHL) I help out on the farm by feeding cows, calves, doing odd jobs and mowing hay and straw in the summer months. My greatest achievement besides winning first place with 4-H calves is being able to go to Canada Wide Science Fair.

Awards	Value
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Automotive - Junior	\$300
Sponsor: AUTO21	
Total	\$1 300



