

CWSF 2009 - Winnipeg, Manitoba



Matthew Podolak

Algae Goes Green

Division: Engineering & Computing Sciences / Automotive

Category: Junior

Region: Simcoe County

City: Barrie, ON

School: Holly Meadows E.S.

Abstract: This project studied the factors that influenced algae growth and determined if algae could be used to filter harmful emissions from car exhaust. Growth was measured using a microscope and emissions were measured at an emissions testing facility. Algae growth increased when CO₂ was added and algae was found to absorb hydrocarbons and CO₂ from car exhaust.

Biography

Some of the activities that I enjoy at school include chess club, the joy of reading club and patrolling. I assist in a Sunday school class at my church where I help the teacher of a class of children in jk/sk. Some of my hobbies are building characters out of clay, drawing and reading. Every summer I participate in a science camp where I explore many fascinating areas of science and technology. My favourite activity during the summer is soccer, which I have played since I was 4 years old. In the future, I would like to be an engineer, because I would like to apply my creativity and my knowledge to create, design and explore new and innovative technology.

Awards

Value

The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Honourable Mention - Automotive - Junior Sponsor: AUTO21	\$100
Gold Medal - Earth & Environmental Sciences - Junior Sponsor: Petro-Canada	\$1 500
Total	\$3 600