

CWSF 2010 - Peterborough, Ontario



Colin Roos

The Chlorofilter Phase 3

Division: Physical & Mathematical Sciences

Category: Intermediate

Region: Sudbury

City: Sudbury , ON

School: Lo-Ellen Park S.S.

Abstract: This project uses the science of photosynthesis to make a filter that will remove carbon dioxide from fossil fuel emissions. The third phase of the project was developed based on results of previous investigations to reduce atmospheric carbon dioxide. A unique experimental design was used to investigate the effects of engine exhaust on algae life cycles and carbon dioxide concentrations in exhaust.

Biography

I was born in Timmins, an Ontario city seven hundred kilometres north of Toronto. I am a grade eight honour student at R. L. Beattie Public School. This is my third year participating in the Science Fair. In 2007, I was on the winning team at the Timmins Science Olympics as well as at the Timmins Regional Robotics Competition. I like music and am completing my 7th grade of violin. I play violin in a quartet and orchestra and trumpet in the school band. When I am not practicing violin, I enjoy mountain biking, kayaking and ice hockey. I also participate in other sports such as cross-country skiing, soccer and downhill skiing. I have been part of the No. 10 Timmins Kiwanis Royal Air Cadets Squadron to learn how to fly planes. I am interested in mechanical science and aeronautical science. Someday I hope to make the world a better place by making one of my innovations become reality.

Awards

Value

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| The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario | \$1 000 |
| Bronze Medal - Environmental Innovation - Intermediate Sponsor: EnviroExpo, Presented by VIA Rail Canada | \$300 |
| Total | \$1 300 |

