

CWSF 2008 - Ottawa, Ontario



Graham Mann

Some Like It Hot! Using Thermoelectrics to Recover Waste Heat from a Car Engine

Division: Health Sciences / Automotive

Category: Intermediate

Region: South Shore

City: Lunenburg, NS

School: Park View Education Centre

Abstract: This project explores the potential for changing waste heat from a combustion engine into useful electrical energy. A prototype module utilizing thermoelectric generators was designed, constructed, and tested. This module demonstrates considerable promise for energy savings and greenhouse gas reduction if adopted widely in motor vehicles.

Biography

My name is Graham Mann, I'm a Grade 10 student at Park View Education Centre on the South Shore of Nova Scotia. This will be the third time that I have competed at the Canada-Wide Science Fair, having gone in 2005 and then again in 2006, when I was awarded a silver medal. I am enrolled in the International Baccalaureate program at PVEC, and I am also a member of the badminton and track teams for the school. This past year I played hockey at the Midget AAA level, and am currently a member of the local Tier 1 soccer club. Other interests include sailing, golf and tennis. In the future, I plan to attend university in a science program and pursue a career in some field of science, although I do not know what that will be yet.

Awards

Value

The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Automotive - Intermediate Sponsor: AUTO21	\$300
Silver Medal - Engineering - Intermediate Sponsor: Youth Science Foundation Canada	\$700
Total	\$3 500