



## CWSF 2008 - Ottawa, Ontario



## 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.

## **Graham Mann**

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

	Health Sciences / Automotive Intermediate
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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.

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



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