



CWSF 2010 - Peterborough, Ontario



Biography

Maxwell Poole is 14 years of age and resides in Chebogue, Yarmouth County, NS. He attends Maple Grove Education Center as a grade 9 student. He is presently a member of the Senior and Stage Bands of Maple Grove Education Center as well as a member of the Intermediate Boys Track and Field team. His hobbies are competitive swimming, piano, guitar, trumpet, drums, and computer work. Maxwell is currently a member of the Yarmouth Y Whitecaps swim team with aspirations of some time swimming for his province and country. He volunteers at various community sports oriented events. Max enjoys competition and challenging himself against various technologies and other competitors. Max spends much of his time with his family traveling the maritimes for his and his brother's sporting events.

Maxwell Poole

Reengineering LED Traffic Lights to Prevent Snow or Ice Buildup

| Division: Category: | Life Sciences Intermediate |
|------------------------|---|
| Region: | Tri-County |
| City: | Yarmouth, NS |
| School: | Maple Grove Education Centre |
| Abstract: | The project tested if LED traffic lights could be reengineered with cost efficient heat energy to prevent snow or ice buildup. A green LED traffic light was fitted with the proper amount of resistance wire to achieve a 15 watt grid heating element. In an ambient temperature of -17 degrees Celsius the lens temperature rose to +3 degrees Celsius, with average cycling of the light. |

| Awards | Value |
|--|---------|
| The University of Western Ontario Scholarship | \$1 000 |
| Bronze Medallist - \$1000 Entrance Scholarship | |
| Sponsor: University of Western Ontario | |
| Bronze Medal - Engineering - Intermediate | \$300 |
| Sponsor: Youth Science Canada | |
| Total | \$1 300 |



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