

CWSF 2006 - Saguenay, Québec



David Castelino

Bio-Power Plant

Division: Health Sciences

Category: Intermediate

Region: Peel

City: Mississauga, ON

School: St. Aloysius Gonzaga

Abstract: This project includes the innovation of a nano-crystalline solar cell and additional experimental procedures that test and increase the efficiency of the solar cell using a variety of organic and inorganic materials. The innovation of the environmentally friendly solar cell was successful. Dye-sensitized solar cells are alternate and inexpensive sources of energy, which can help to reduce pollution and will replace expensive, conventional solar cell.

Awards	Value
Australian National Youth Science Forum Award	\$2 500
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Engineering - Intermediate Sponsor: Youth Science Foundation Canada	\$700
Total	\$4 700