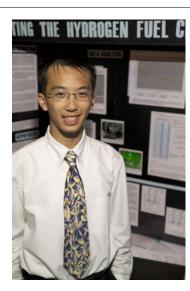




CWSF 2005 - Vancouver, British Columbia



Arthur Yip

Heating the Hydrogen Fuel Cell

Division: Engineering & Computing Sciences

Category: Intermediate

Region: Greater Vancouver **City:** Vancouver, BC

School: Sir Winston Churchill Secondary School

Abstract: By constructing a simple model of a hydrogen fuel cell with two platinum

electrodes and sulphuric acid solution electrolyte, I investigated the effects of temperature on the reverse electrolysis effect, by heating (and also cooling) my model fuel cell. Unexpectedly, my results show increasing

voltage outputs at lower temperatures.

Awards	Value
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	
Bronze Medal - Engineering - Intermediate	\$300
Sponsor: Youth Science Foundation Canada	
Total	\$1 600



