



CWSF 2016 - Montreal, Quebec



Biography

I am currently 16 years old, and I attend Westwood High School, which is located in Fort McMurray, Alberta. I enjoy playing multiple sports; however, I particularly excel at soccer. I play for my city's travel soccer team, and we have successfully competed at numerous provincial and Western Canadian tournaments. I also enjoy volunteering and benefiting my city. I am a member of MACOY and TAB, which is the mayor's youth advisory council and local library advisory board, respectively. I also regularly volunteer at the hospital, and local events. Academics are also important to me; for the past three years, I have received the Highest Average Award in my large school. I have successfully participated at my local science fair 6 times. I spend most of my free time developing my inventions, and I have recently been focused on inventing a new water pump and boiler system that can improve desalination, home heating, irrigation, and electricity generation systems.

Dhrumil Shah

Improving the Accessibility and Applicability of Water for Human Necessities

	electrical energy, human-powered mechanical energy, or a water stream. Additionally, a water vaporizer was developed which can vaporize water in 7.14s with 300W of input electricity. Together, the system was 946% more effective than current distillation heating wire technology, 38x faster than current coal/natural gas based home heating systems, and provided plenty irrigation water.
Abstract:	A water pump was developed that can operate without supervision,
School:	Westwood Community High School
City:	Fort Mcmurray, AB
Region:	Wood Buffalo
Category:	Intermediate
Challenge:	Resources

Awards	Value
Excellence Award - Intermediate - Bronze Medal	
Sponsor: Youth Science Canada	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$1 000



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