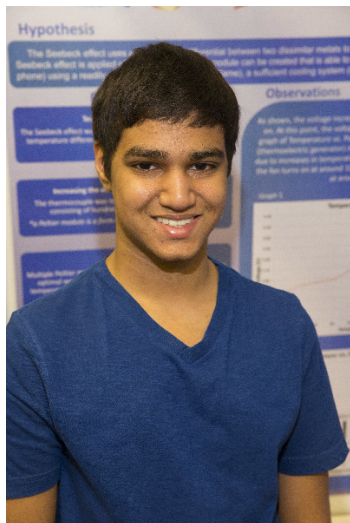


CWSF 2014 - Windsor, Ontario



Priyank Patel

You're Hot and You're Cold: Using the Seebeck Effect to Produce Usable Energy

Challenge: Innovation

Category: Intermediate

Region: Lambton County

City: Sarnia, ON

School: Northern C.I. & V.S.

Abstract: The goal of this project is to create a viable method of converting heat from readily available sources into usable electricity. This technology can be used in remote areas or in the case of emergency situations to charge a dead cell phone, or to power an LED(s). The designed device will be cost effective (less than \$70), simple, compact, and efficient.

Biography

My name is Priyank Patel and I am a student at NCIVS in Sarnia, ON. I have a passion for science, which has driven me to participate in the Science fair. I plan to pursue a career in the field of science through post-secondary school and later. The muse of my project was an article published in The New York Times, reporting on the severe lack of electricity in third world countries. I decided that I would create a method of producing usable electric energy from an easily attainable resource, to solve for this deficiency. After creating my project, I have plans to expand upon it to make it a more marketable product, and perhaps have it as a selling product one day. As a science fair participant myself, I would strongly recommend participating in a local science fair, as it is a great learning experience with lots of opportunities.

Awards

Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100