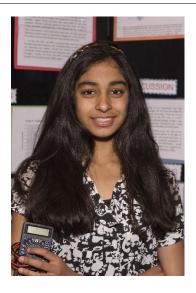
# CWSF



## CWSF 2010 - Peterborough, Ontario



#### Biography

My name is Naima Raza. I am in grade 7 at Errol Road Public School. This was my third regional science fair, and my first time attending the CWSF. I am an avid musician currently in grade 5 piano. Participating in sports is an interest of mine and I am regularly on school teams- basketball, volleyball, soccer and tennis are my favourite sports. Moreover, I am a green belt in karate and have competed yearly in Track&Field at city level since grade 4. I also enjoy travelling, reading, writing, art and music. Volunteering is significant in my life, as well - I volunteer regularly in fundraising activities. I enjoy participating in the Royal Canadian Legion speech, essay and poem contests on a regular basis as well. I plan to pursue law or dentistry in university.

### Naima Raza

#### **Substrate Effectiveness in Microbial Fuel Cells**

Division:	Earth & Environmental Sciences
Category:	Junior
Region:	Lambton County
City:	Sarnia, ON
School:	Errol Road E.S.
Abstract:	This project involved the construction and testing of a Microbial Fuel Cell.
	This device used bacteria to liberate hydrogen atoms from an energy-rich
	substance (a substrate) in order to create electricity. Glucose and acetic
	acid were tested as substrates in separate experiments. The obtained data
	proved that both glucose and acetic acid are effective substrates, although
	acetic acid is preferable for long term use.

Awards	Value
The University of Western Ontario Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Silver Medal - Biotechnology & Pharmaceutical Sciences - Junior	\$700
Sponsor: Youth Science Canada	
Total	\$2 700



Youth Science Canada PO Box 297 Pickering ON L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

