

## CWSF 2008 - Ottawa, Ontario



### Alicia MacDougall, Akruti Patel

#### Wind Power

**Division:** International / None

**Category:** Intermediate

**Region:** Lambton County

**City:** Sarnia, ON

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

**Abstract:** Our project was to study and analyze factors affecting the operation and design of wind turbines. Variables such as wind velocity; number of magnetic poles and rotors were tested to see how they would affect the power output of wind turbines. Research of the physics behind wind turbines and the importance of wind power in our society were used to support our project.

#### Biographies

Alicia - I am 14 years old and this is my first time ever entering a science fair. My favourite thing to do is play hockey. I play on the Lady sting Bantam A. I also enjoy soccer, water skiing and Kung-Fu and have a brown belt. At school I was on the soccer team, hockey team, badminton team, and track. I was also in science club and school newspaper. When I graduated grade 8 I recieved the science and female athlete awards. I was also the prime minister of my elementary school in grade 8. I also helped pass the smoke free by law in sarnia by speaking at several city council meetings. I have won medals in hockey Kung-Fu, public speaking, chess, and oth...

Akruti - My name is Akruti Patel; I am a grade nine student at Northern Collegiate I. & V.S. in Sarnia, Ontario. I enjoy participating in various different science fairs, clubs, organizations and expanding my knowledge in science. Besides science, I participate in numerous other extra curricular activities such as swimming, soccer, piano, and dance. I also enjoy participating in public speaking contests and have won many awards at branch, zone and district levels. I take part in many clubs at school such as the Science Club, Multicultural Awareness Club and the School Newspaper Club. I also have a passion for music and have been playing the piano for ...

#### Awards

#### Value

Honourable Mention - Physical & Mathematical Sciences Intermediate	\$100
Sponsor: Encana Corporation	
<b>Total</b>	<b>\$100</b>