

## CWSF 2009 - Winnipeg, Manitoba



### Katy Diederichs

#### Wind to Wheel

**Division:** Health Sciences / Environmental Innovation

**Category:** Junior

**Region:** Frontenac, Lennox & Addington

**City:** Kingston, ON

**School:** King's Town School

**Abstract:** I constructed a wind tunnel designed to be built into a hybrid car. Electricity is generated by a wind turbine which recharges the batteries as the car drives. Because modern hybrids only charge their batteries during deceleration, they rely mainly on gas for highway driving. My idea was to create an energy source that would stay "consistent". This would improve on current hybrid technology.

#### Biography

Katy is a Grade 7 student at King's Town School in Kingston, Ontario. Katy's favourite subjects at school are math, science and art. Katy likes swimming on the Kingston Blue Marlins swim team, horse riding, hiking and playing the piano. She has also just started to learn the flute. Katy loves to read, build lego robotics, and to do arts and crafts. Katy also enjoys travelling, and has visited Australia, Spain, France, Italy, Greece, Croatia, and spent a year living in Norway and Switzerland. She came second in her Science Fair division when she was in grade 5.