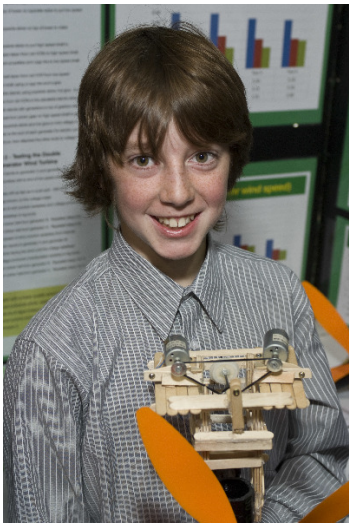


# CWSF 2010 - Peterborough, Ontario



## Sam Vail

### Wind Power

**Division:** Life Sciences

**Category:** Junior

**Region:** Prince Edward Island

**City:** Charlottetown, PE

**School:** Immanuel Christian School

**Abstract:** The purpose of my project is to lower pollution using less money, space and time. To do this I made a wind turbine with 2 generators instead of a regular 1 generator turbine. I tested the voltage with 2 generators and then with 1 generator. My hypothesis was correct! It generated twice the electricity. I think this innovation will help the world stay green.

### Biography

Sam is 12 years old. He is the oldest of 4 with a 5th sibling due the week he is at the Science Fair. He goes to a private Christian School that he has gone to since he was 4. He likes electrical engineering and flight. Last summer Sam flew a plane at CFB Summerside with COPA for Kids (it was his first time in a plane). In his spare time he likes to build small planes and sometimes tries hooking up electrical propellers. He has a circuit set and a drawer full of wires, batteries, engines, lights, etc. Sam also likes to build forts with old wood and rusty nails outside. He has been playing piano for 6 years and trombone in the school band for 3 years. He likes to play Jazz and won 1st place playing it in the Queens County Music Festival in Contemporary Piano. He likes to go biking, camping and do other outdoor activities with his family. He's always wanted to be an engineer of some sort. In the 2009 Provincial Heritage Fair Sam won an Engineering Prize for his project about his great-grandfathers house building business. Sam can't wait for CWSF!!!!!!