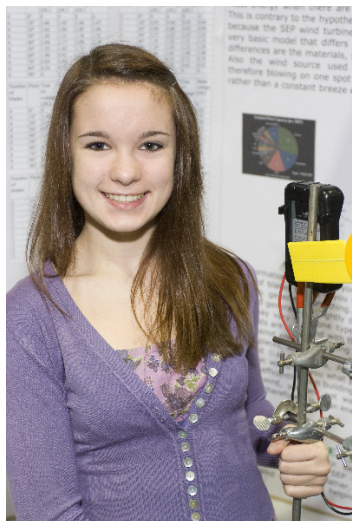


## CWSF 2009 - Winnipeg, Manitoba



### Olivia Young

#### "The Answer My Friend Is Blowing in the Wind"

**Division:** Engineering & Computing Sciences / Environmental Innovation

**Category:** Junior

**Region:** Northwestern Ontario

**City:** Thunder Bay, ON

**School:** Pope John Paul II Senior E.S.

**Abstract:** Hydro costs are rising and with responsibility to be eco-friendly, wind energy is becoming common. Using a voltmeter and high powered blower, I determined the most efficient a SEP wind turbine can be by adjusting pitch and number of blades on the turbine. This helps one know what pitch and number of blades to use if actually using a wind turbine to generate an appliance.

#### Biography

Olivia Young is a grade 8 French Immersion student at Pope John Paul II Senior Elementary in Thunder Bay, Ontario. Olivia was on her school cheerleading team which placed 2nd at Regionals in March 2009. She is part of the competitive dance group at Fay Gleeson Dance Centre and was the recipient of the Silver Tray Award for Classical Ballet at the Lakehead Festival of Music and the Arts 2009. Olivia enjoys math and science, loves to travel and plays the piano. She loves her family and is very thankful for all the opportunities that they have provided for her.